



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

ESCUELA TÉCNICA SUPERIOR
DE INGENIEROS DE CAMINOS,
CANALES Y PUERTOS



Estudio de la problemática de inundabilidad del río Tuéjar a su paso por el municipio de Calles (Valencia) y proyecto básico de pasarela peatonal.

Anejo Estructural

Trabajo final de grado

Titulación: Grado en Obras Públicas

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1. DATOS DE OBRA

1.1. Normas consideradas

Madera: Eurocódigo 5

Categoría de uso: C. Zonas de acceso al público

1.2. Estados límite

E.L.U. de rotura. Madera	EC Nieve: Altitud inferior o igual a 1000 m
Desplazamientos	Acciones características

1.2.1. Situaciones de proyecto

Para las distintas situaciones de proyecto, las combinaciones de acciones se definirán de acuerdo con los siguientes criterios:

- Con coeficientes de combinación

- Sin coeficientes de combinación

- Donde:

G_k Acción permanente

P_k Acción de pretensado

Q_k Acción variable

γ_G Coeficiente parcial de seguridad de las acciones permanentes

γ_P Coeficiente parcial de seguridad de la acción de pretensado

$\gamma_{Q,1}$ Coeficiente parcial de seguridad de la acción variable principal

$\gamma_{Q,i}$ Coeficiente parcial de seguridad de las acciones variables de acompañamiento

$\psi_{p,1}$ Coeficiente de combinación de la acción variable principal

$\psi_{a,i}$ Coeficiente de combinación de las acciones variables de acompañamiento

Para cada situación de proyecto y estado límite los coeficientes a utilizar serán:

E.L.U. de rotura. Madera: Eurocódigo 5

Persistente o transitoria				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.350	-	-
Sobrecarga (Q)	0.000	1.500	1.000	0.700
Viento (Q)	0.000	1.500	1.000	0.600
Nieve (Q)	0.000	1.500	1.000	0.500

Desplazamientos

Acciones variables sin sismo		
	Coeficientes parciales de seguridad (γ)	
	Favorable	Desfavorable
Carga permanente (G)	1.000	1.000
Sobrecarga (Q)	0.000	1.000
Viento (Q)	0.000	1.000
Nieve (Q)	0.000	1.000

1.3. Resistencia al fuego

Perfiles de madera

Norma: EN 1995-1-2: 2004: Proyecto de estructuras de madera - Parte 1-2: Reglas generales - Proyecto de estructuras sometidas al fuego.

Resistencias requeridas: R30

2. ESTRUCTURA

2.1. Geometría

2.1.1. Nudos

Referencias:

$\Delta_x, \Delta_y, \Delta_z$: Desplazamientos prescritos en ejes globales.

$\theta_x, \theta_y, \theta_z$: Giros prescritos en ejes globales.

U_x, U_y, U_z : Vector director de la recta o vector normal al plano de dependencia

Cada grado de libertad se marca con 'X' si está coaccionado y, en caso contrario, con '-'.¹

Nudos														
Referencia	Coordenadas			Vinculación exterior										Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	Dependencias	Ux	Uy	Uz	
N1	20.000	0.000	2.000	X	X	X	-	-	-	-	-	-	-	Empotrado
N2	20.000	2.700	2.000	X	X	X	-	-	-	-	-	-	-	Empotrado
N3	0.000	0.000	2.000	-	X	X	-	-	-	Recta	1.000	0.000	0.000	Empotrado
N4	0.000	2.700	2.000	-	X	X	-	-	-	Recta	1.000	0.000	0.000	Empotrado
N5	1.050	0.000	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N6	1.050	2.700	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N7	2.677	0.000	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N8	2.677	2.700	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N9	4.304	0.000	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N10	4.304	2.700	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N11	5.931	0.000	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N12	5.931	2.700	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N13	7.558	0.000	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N14	7.558	2.700	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N15	9.185	0.000	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N16	9.185	2.700	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N17	10.812	0.000	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado
N18	10.812	2.700	2.000	-	-	-	-	-	-	-	-	-	-	Empotrado

Nudos													
Referencia	Coordenadas			Vinculación exterior									
	X (m)	Y (m)	Z (m)	α_x	α_y	α_z	β_x	β_y	β_z	Dependencias	Ux	Uy	Uz
N19	12.439	0.000	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N20	12.439	2.700	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N21	14.066	0.000	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N22	14.066	2.700	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N23	15.693	0.000	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N24	15.693	2.700	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N25	17.320	0.000	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N26	17.320	2.700	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N27	18.947	0.000	2.000	-	-	-	-	-	-	-	-	-	Empotrado
N28	18.947	2.700	2.000	-	-	-	-	-	-	-	-	-	Empotrado

2.1.2. Barras

2.1.2.1.- Materiales utilizados

Materiales utilizados					
Material		E (MPa)	ν	G (MPa)	α_t (m/m°C)
Tipo	Designación				
Madera	GL24h	11600.00	-	720.00	0.000005
	C18	9000.00	-	560.00	0.000005

Notación:
E: Módulo de elasticidad
 ν : Módulo de Poisson
G: Módulo de cortadura
 α_t : Coeficiente de dilatación
 ρ : Peso específico

2.1.2.2.- Descripción

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	α_{xy}	α_{xz}	Lb _{Sup.} (m)	Lb _{Inf.} (m)
Tipo	Designación								
Madera	GL24h	N3/N5	N3/N1	V-1020x220 (Vigas-220)	1.050	1.00	1.00	-	-
		N5/N7	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N7/N9	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N9/N11	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N11/N13	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N13/N15	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N15/N17	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N17/N19	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N19/N21	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N21/N23	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N23/N25	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N25/N27	N3/N1	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N27/N1	N3/N1	V-1020x220 (Vigas-220)	1.053	1.00	1.00	-	-
		N4/N6	N4/N2	V-1020x220 (Vigas-220)	1.050	1.00	1.00	-	-
		N6/N8	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N8/N10	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N10/N12	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N12/N14	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N14/N16	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	α_{xy}	α_{xz}	Lb _{Sup.} (m)	Lb _{Inf.} (m)
Tipo	Designación								
		N16/N18	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N18/N20	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N20/N22	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N22/N24	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N24/N26	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N26/N28	N4/N2	V-1020x220 (Vigas-220)	1.627	1.00	1.00	-	-
		N28/N2	N4/N2	V-1020x220 (Vigas-220)	1.053	1.00	1.00	-	-
		N7/N8	N7/N8	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N9/N10	N9/N10	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N11/N12	N11/N12	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N13/N14	N13/N14	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N15/N16	N15/N16	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N17/N18	N17/N18	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N19/N20	N19/N20	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N21/N22	N21/N22	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N23/N24	N23/N24	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N25/N26	N25/N26	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N27/N28	N27/N28	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		N5/N6	N5/N6	V- 250x100 (Vigas-100)	2.700	1.00	1.00	-	-
		C18	N7/N6	N7/N6	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-
	N7/N10		N7/N10	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N11/N10		N11/N10	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N11/N14		N11/N14	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N15/N14		N15/N14	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N15/N18		N15/N18	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N19/N18		N19/N18	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N19/N22		N19/N22	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N23/N22		N23/N22	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N23/N26		N23/N26	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N27/N26		N27/N26	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N25/N28		N25/N28	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N25/N24		N25/N24	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N21/N24		N21/N24	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N21/N20		N21/N20	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N17/N20		N17/N20	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N17/N16		N17/N16	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N13/N16		N13/N16	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N13/N12		N13/N12	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N9/N12		N9/N12	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-
	N9/N8	N9/N8	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-	
	N5/N8	N5/N8	140x70 (Cabios/Viguetas)	3.152	1.00	1.00	-	-	
Notación: Ni: Nudo inicial Nf: Nudo final α_{xy} : Coeficiente de pandeo en el plano 'XY' α_{xz} : Coeficiente de pandeo en el plano 'XZ' Lb _{sup.} : Separación entre arriostramientos del ala superior Lb _{inf.} : Separación entre arriostramientos del ala inferior									

2.1.2.3.- Características mecánicas

Tipos de pieza	
Ref.	Piezas
1	N3/N1 y N4/N2
2	N7/N8, N9/N10, N11/N12, N13/N14, N15/N16, N17/N18, N19/N20, N21/N22, N23/N24, N25/N26, N27/N28 y N5/N6
3	N7/N6, N7/N10, N11/N10, N11/N14, N15/N14, N15/N18, N19/N18, N19/N22, N23/N22, N23/N26, N27/N26, N25/N28, N25/N24, N21/N24, N21/N20, N17/N20, N17/N16, N13/N16, N13/N12, N9/N12, N9/N8 y N5/N8

Características mecánicas									
Material		Ref.	Descripción	A (cm²)	Avy (cm²)	Avz (cm²)	Iyy (cm4)	Izz (cm4)	It (cm4)
Tipo	Designación								
Madera	GL24h	1	V-1020x220, (Vigas-220)	2244.00	1870.00	1870.00	1945548.00	90508.00	311413.34
		2	V- 250x100, (Vigas-100)	250.00	208.33	208.33	13020.83	2083.33	6150.00
	C18	3	140x70, (Cabios/Viguetas)	98.00	81.67	81.67	400.17	1600.67	1099.66
Notación: Ref.: Referencia A: Área de la sección transversal Avy: Área de cortante de la sección según el eje local 'Y' Avz: Área de cortante de la sección según el eje local 'Z' Iyy: Inercia de la sección alrededor del eje local 'Y' Izz: Inercia de la sección alrededor del eje local 'Z' It: Inercia a torsión Las características mecánicas de las piezas corresponden a la sección en el punto medio de las mismas.									

2.1.2.4.- Tabla de medición

Tabla de medición						
Material		Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	Volumen (m ³)	Peso (kg)
Tipo	Designación					
Madera	GL24h	N3/N1	V-1020x220 (Vigas-220)	20.000	4.488	2064.48
		N4/N2	V-1020x220 (Vigas-220)	20.000	4.488	2064.48
		N7/N8	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N9/N10	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N11/N12	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N13/N14	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N15/N16	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N17/N18	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N19/N20	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N21/N22	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N23/N24	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N25/N26	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N27/N28	V- 250x100 (Vigas-100)	2.700	0.068	31.05
		N5/N6	V- 250x100 (Vigas-100)	2.700	0.068	31.05
	C18	N7/N6	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N7/N10	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N11/N10	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N11/N14	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N15/N14	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N15/N18	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N19/N18	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N19/N22	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N23/N22	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N23/N26	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N27/N26	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N25/N28	140x70 (Cabios/Viguetas)	3.152	0.031	11.74

Tabla de medición						
Material		Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	Volumen (m³)	Peso (kg)
Tipo	Designación					
		N25/N24	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N21/N24	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N21/N20	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N17/N20	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N17/N16	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N13/N16	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N13/N12	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N9/N12	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N9/N8	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
		N5/N8	140x70 (Cabios/Viguetas)	3.152	0.031	11.74
Notación: Ni: Nudo inicial Nf: Nudo final						

2.1.2.5.- Resumen de medición

Resumen de medición												
Material		Serie	Perfil	Longitud			Volumen			Peso		
Tipo	Designación			Perfil (m)	Serie (m)	Material (m)	Perfil (m³)	Serie (m³)	Material (m³)	Perfil (kg)	Serie (kg)	Material (kg)
		Vigas-220	V-1020x220	40.000			8.976			4128.96		
					40.000			8.976			4128.96	
		Vigas-100	V- 250x100	32.400			0.810			372.60		
					32.400			0.810			372.60	
	GL24h					72.400			9.786			4501.56
		Cabios/Viguetas	140x70	69.351			0.680			258.26		
					69.351			0.680			258.26	
	C18					69.351			0.680			258.26
Madera						141.751			10.466			4759.82

2.1.2.6.- Medición de superficies

Madera: Medición de las superficies a pintar				
Serie	Perfil	Superficie unitaria (m²/m)	Longitud (m)	Superficie (m²)
Vigas-220	V-1020x220	2.480	40.000	99.200
Vigas-100	V- 250x100	0.700	32.400	22.680
Cabios/Viguetas	140x70	0.420	69.351	29.127
Total				151.007

2.2. Cargas

2.2.1. Barras

Referencias:

'P1', 'P2':

- Cargas puntuales, uniformes, en faja y momentos puntuales: 'P1' es el valor de la carga. 'P2' no se utiliza.
- Cargas trapezoidales: 'P1' es el valor de la carga en el punto donde comienza (L1) y 'P2' es el valor de la carga en el punto donde termina (L2).
- Cargas triangulares: 'P1' es el valor máximo de la carga. 'P2' no se utiliza.
- Incrementos de temperatura: 'P1' y 'P2' son los valores de la temperatura en las caras exteriores o paramentos de la pieza. La orientación de la variación del incremento de temperatura sobre la sección transversal dependerá de la dirección seleccionada.

'L1', 'L2':

- Cargas y momentos puntuales: 'L1' es la distancia entre el nudo inicial de la barra y la posición donde se aplica la carga. 'L2' no se utiliza.
- Cargas trapezoidales, en faja, y triangulares: 'L1' es la distancia entre el nudo inicial de la barra y la posición donde comienza la carga, 'L2' es la distancia entre el nudo inicial de la barra y la posición donde termina la carga.

Unidades:

- Cargas puntuales: kN
- Momentos puntuales: kN·m.
- Cargas uniformes, en faja, triangulares y trapezoidales: kN/m.
- Incrementos de temperatura: °C.

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N3/N5	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N3/N5	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N3/N5	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N3/N5	V	Faja	0.326	-	0.075	0.150	Globales	0.000	1.000	0.000
N3/N5	V	Faja	0.326	-	0.150	0.225	Globales	0.000	1.000	0.000
N3/N5	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N3/N5	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N5/N7	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N5/N7	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N5/N7	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N5/N7	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N5/N7	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N7/N9	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N7/N9	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N7/N9	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N7/N9	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N7/N9	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N9/N11	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N9/N11	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N9/N11	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N9/N11	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N9/N11	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N11/N13	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N11/N13	CM	Uniforme	0.350	-	-	-	Globales	0.000	0.000	-1.000
N11/N13	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N11/N13	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N11/N13	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N13/N15	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N13/N15	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N13/N15	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N13/N15	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N13/N15	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N15/N17	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N15/N17	CM	Uniforme	0.350	-	-	-	Globales	0.000	0.000	-1.000
N15/N17	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N15/N17	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N15/N17	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N17/N19	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N17/N19	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N17/N19	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N17/N19	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N17/N19	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N19/N21	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N19/N21	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N19/N21	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N19/N21	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N19/N21	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N21/N23	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N21/N23	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N21/N23	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N21/N23	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N21/N23	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N23/N25	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N23/N25	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N23/N25	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N23/N25	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N23/N25	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N25/N27	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N25/N27	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N25/N27	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N25/N27	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N25/N27	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N27/N1	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N27/N1	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N27/N1	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N27/N1	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N27/N1	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N4/N6	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N4/N6	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N4/N6	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N4/N6	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N4/N6	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N6/N8	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N6/N8	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N6/N8	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N6/N8	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N6/N8	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N8/N10	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N8/N10	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N8/N10	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N8/N10	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N8/N10	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N10/N12	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N10/N12	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N10/N12	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N10/N12	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N10/N12	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N12/N14	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N12/N14	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N12/N14	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N12/N14	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N12/N14	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N14/N16	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N14/N16	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N14/N16	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N14/N16	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N14/N16	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N16/N18	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N16/N18	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N16/N18	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N16/N18	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N16/N18	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N18/N20	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N18/N20	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N18/N20	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N18/N20	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N18/N20	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N20/N22	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N20/N22	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N20/N22	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N20/N22	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N20/N22	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N22/N24	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N22/N24	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N22/N24	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N22/N24	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N22/N24	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N24/N26	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N24/N26	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N24/N26	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N24/N26	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N24/N26	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N26/N28	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N26/N28	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N26/N28	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N26/N28	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000
N26/N28	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N28/N2	Peso propio	Uniforme	1.013	-	-	-	Globales	0.000	0.000	-1.000
N28/N2	CM	Uniforme	0.320	-	-	-	Globales	0.000	0.000	-1.000
N28/N2	Q	Uniforme	5.500	-	-	-	Globales	0.000	0.000	-1.000
N28/N2	V	Faja	0.544	-	0.225	1.050	Globales	0.000	1.000	0.000

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N28/N2	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N7/N8	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N7/N8	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N9/N10	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N9/N10	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N11/N12	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N11/N12	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N13/N14	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N13/N14	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N15/N16	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N15/N16	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N17/N18	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N17/N18	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N19/N20	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N19/N20	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N21/N22	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N21/N22	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N23/N24	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N23/N24	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N25/N26	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N25/N26	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N7/N6	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N7/N10	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N11/N10	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N11/N14	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N15/N14	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N15/N18	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N19/N18	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N19/N22	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N23/N22	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N23/N26	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N27/N26	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N25/N28	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N25/N24	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N21/N24	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N21/N20	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N17/N20	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N17/N16	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N13/N16	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N13/N12	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N9/N12	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N9/N8	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N5/N8	Peso propio	Uniforme	0.037	-	-	-	Globales	0.000	0.000	-1.000
N27/N28	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N27/N28	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000
N5/N6	Peso propio	Uniforme	0.113	-	-	-	Globales	0.000	0.000	-1.000
N5/N6	N	Uniforme	0.650	-	-	-	Globales	0.000	0.000	-1.000

2.3. Resultados

2.3.1. Nudos

2.3.1.1.- Desplazamientos

Referencias:

Dx, Dy, Dz: Desplazamientos de los nudos en ejes globales.

Gx, Gy, Gz: Giros de los nudos en ejes globales.

2.3.1.1.1.- Hipótesis

Desplazamientos de los nudos, por hipótesis							
Referencia	Descripción	Desplazamientos en ejes globales					
		Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
N1	Peso propio	0.000	0.000	0.000	-0.088	-1.737	0.003
	CM	0.000	0.000	0.000	0.006	-0.482	0.000
	Q	0.000	0.000	0.000	0.008	-8.123	0.005
	V	0.000	0.000	0.000	0.091	0.000	-0.453
	N	0.000	0.000	0.000	-0.335	-1.758	0.009
N2	Peso propio	0.000	0.000	0.000	0.088	-1.737	0.003
	CM	0.000	0.000	0.000	0.005	-0.473	0.000
	Q	0.000	0.000	0.000	-0.008	-8.123	0.005
	V	0.000	0.000	0.000	-0.091	0.000	-0.453
	N	0.000	0.000	0.000	0.335	-1.758	0.009
N3	Peso propio	-0.001	0.000	0.000	-0.088	1.737	0.003
	CM	0.000	0.000	0.000	0.006	0.483	0.000
	Q	-0.001	0.000	0.000	0.008	8.123	0.005
	V	0.035	0.000	0.000	-0.076	0.000	0.415
	N	-0.002	0.000	0.000	-0.335	1.758	0.008
N4	Peso propio	0.001	0.000	0.000	0.088	1.737	0.003
	CM	0.000	0.000	0.000	0.005	0.473	0.000
	Q	0.001	0.000	0.000	-0.008	8.123	0.005
	V	-0.035	0.000	0.000	0.076	0.000	0.415
	N	0.002	0.000	0.000	0.335	1.758	0.008
N5	Peso propio	-0.001	0.003	-1.901	-0.088	1.709	0.004
	CM	0.000	0.000	-0.528	0.006	0.475	0.000
	Q	-0.001	0.005	-8.890	0.008	7.993	0.006
	V	0.035	0.407	0.000	-0.076	0.000	0.278
	N	-0.002	0.009	-1.925	-0.335	1.730	0.010
N6	Peso propio	0.001	0.003	-1.901	0.088	1.709	0.004
	CM	0.000	0.000	-0.518	0.005	0.466	0.000
	Q	0.001	0.005	-8.890	-0.008	7.993	0.006
	V	-0.035	0.407	0.000	0.076	0.000	0.278
	N	0.002	0.009	-1.925	0.335	1.730	0.010
N7	Peso propio	-0.001	0.008	-4.697	-0.092	1.567	-0.002
	CM	0.000	0.001	-1.305	0.011	0.435	0.000
	Q	-0.001	0.011	-21.965	0.017	7.328	-0.004
	V	0.034	0.622	0.000	-0.051	0.000	0.072
	N	-0.002	0.022	-4.755	-0.328	1.586	-0.004
N8	Peso propio	0.001	0.008	-4.697	0.092	1.567	-0.002
	CM	0.000	0.001	-1.280	0.009	0.427	0.000
	Q	0.001	0.011	-21.965	-0.017	7.328	-0.004
	V	-0.034	0.622	0.000	0.051	0.000	0.072

Desplazamientos de los nudos, por hipótesis							
Referencia	Descripción	Desplazamientos en ejes globales					
		Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
	N	0.002	0.022	-4.755	0.328	1.586	-0.004
N9	Peso propio	-0.001	0.001	-7.154	-0.093	1.324	0.000
	CM	0.000	0.000	-1.988	0.015	0.368	0.000
	Q	-0.001	-0.002	-33.451	0.025	6.190	0.001
	V	0.030	0.731	0.000	-0.018	0.000	0.060
	N	-0.002	0.004	-7.240	-0.324	1.339	-0.002
N10	Peso propio	0.001	0.001	-7.154	0.093	1.324	0.000
	CM	0.000	0.000	-1.949	0.012	0.361	0.000
	Q	0.001	-0.002	-33.451	-0.025	6.190	0.001
	V	-0.030	0.731	0.000	0.018	0.000	0.060
	N	0.002	0.004	-7.240	0.324	1.339	-0.002
N11	Peso propio	-0.001	0.006	-9.124	-0.092	1.002	-0.001
	CM	0.000	0.001	-2.536	0.020	0.278	0.000
	Q	-0.001	0.011	-42.664	0.032	4.684	-0.003
	V	0.026	0.817	0.000	-0.010	0.000	0.044
	N	-0.002	0.014	-9.234	-0.321	1.014	-0.003
N12	Peso propio	0.001	0.006	-9.124	0.092	1.002	-0.001
	CM	0.000	0.001	-2.486	0.016	0.273	0.000
	Q	0.001	0.011	-42.664	-0.032	4.684	-0.003
	V	-0.026	0.817	0.000	0.010	0.000	0.044
	N	0.002	0.014	-9.234	0.321	1.014	-0.003
N13	Peso propio	-0.001	-0.003	-10.499	-0.092	0.624	-0.001
	CM	0.000	0.000	-2.917	0.022	0.173	0.000
	Q	-0.001	-0.008	-49.092	0.036	2.916	0.000
	V	0.021	0.875	0.000	-0.001	0.000	0.028
	N	-0.002	-0.006	-10.625	-0.320	0.631	-0.002
N14	Peso propio	0.001	-0.003	-10.499	0.092	0.624	-0.001
	CM	0.000	0.000	-2.861	0.018	0.170	0.000
	Q	0.001	-0.008	-49.092	-0.036	2.916	0.000
	V	-0.021	0.875	0.000	0.001	0.000	0.028
	N	0.002	-0.006	-10.625	0.320	0.631	-0.002
N15	Peso propio	-0.001	0.003	-11.205	-0.092	0.212	-0.001
	CM	0.000	0.001	-3.113	0.024	0.058	0.000
	Q	-0.001	0.009	-52.393	0.038	0.991	-0.001
	V	0.016	0.906	0.000	-0.003	0.000	0.011
	N	-0.002	0.006	-11.339	-0.319	0.214	-0.003
N16	Peso propio	0.001	0.003	-11.205	0.092	0.212	-0.001
	CM	0.000	0.001	-3.053	0.019	0.058	0.000
	Q	0.001	0.009	-52.393	-0.038	0.991	-0.001
	V	-0.016	0.906	0.000	0.003	0.000	0.011
	N	0.002	0.006	-11.339	0.319	0.214	-0.003
N17	Peso propio	-0.001	-0.006	-11.205	-0.092	-0.211	-0.001
	CM	0.000	-0.001	-3.112	0.023	-0.059	0.000
	Q	-0.001	-0.012	-52.396	0.038	-0.987	-0.001
	V	0.011	0.909	0.000	0.003	0.000	-0.006
	N	-0.002	-0.014	-11.340	-0.319	-0.214	-0.002
N18	Peso propio	0.001	-0.006	-11.205	0.092	-0.211	-0.001
	CM	0.000	-0.001	-3.054	0.019	-0.058	0.000

Desplazamientos de los nudos, por hipótesis							
Referencia	Descripción	Desplazamientos en ejes globales					
		Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
	Q	0.001	-0.012	-52.396	-0.038	-0.987	-0.001
	V	-0.011	0.909	0.000	-0.003	0.000	-0.006
	N	0.002	-0.014	-11.340	0.319	-0.214	-0.002
N19	Peso propio	0.000	0.000	-10.501	-0.092	-0.623	-0.001
	CM	0.000	0.000	-2.915	0.021	-0.174	0.000
	Q	-0.001	0.005	-49.101	0.036	-2.913	0.000
	V	0.006	0.885	0.000	0.001	0.000	-0.022
	N	-0.001	-0.002	-10.627	-0.320	-0.630	-0.002
N20	Peso propio	0.000	0.000	-10.501	0.092	-0.623	-0.001
	CM	0.000	0.000	-2.861	0.017	-0.170	0.000
	Q	0.001	0.005	-49.101	-0.036	-2.913	0.000
	V	-0.006	0.885	0.000	-0.001	0.000	-0.022
	N	0.001	-0.002	-10.627	0.320	-0.630	-0.002
N21	Peso propio	0.000	-0.008	-9.127	-0.092	-1.001	-0.001
	CM	0.000	-0.001	-2.532	0.018	-0.278	0.000
	Q	0.000	-0.014	-42.679	0.032	-4.681	-0.003
	V	0.002	0.834	0.000	0.012	0.000	-0.039
	N	-0.001	-0.021	-9.237	-0.321	-1.013	-0.002
N22	Peso propio	0.000	-0.008	-9.127	0.092	-1.001	-0.001
	CM	0.000	-0.001	-2.487	0.014	-0.273	0.000
	Q	0.000	-0.014	-42.679	-0.032	-4.681	-0.003
	V	-0.002	0.834	0.000	-0.012	0.000	-0.039
	N	0.001	-0.021	-9.237	0.321	-1.013	-0.002
N23	Peso propio	0.000	-0.002	-7.158	-0.093	-1.323	0.000
	CM	0.000	0.000	-1.985	0.014	-0.367	0.000
	Q	0.000	0.000	-33.470	0.025	-6.187	0.002
	V	-0.001	0.757	0.000	0.021	0.000	-0.053
	N	-0.001	-0.009	-7.244	-0.324	-1.339	-0.001
N24	Peso propio	0.000	-0.002	-7.158	0.093	-1.323	0.000
	CM	0.000	0.000	-1.950	0.011	-0.361	0.000
	Q	0.000	0.000	-33.470	-0.025	-6.187	0.002
	V	0.001	0.757	0.000	-0.021	0.000	-0.053
	N	0.001	-0.009	-7.244	0.324	-1.339	-0.001
N25	Peso propio	0.000	-0.009	-4.702	-0.092	-1.567	-0.001
	CM	0.000	-0.001	-1.304	0.010	-0.435	0.000
	Q	0.000	-0.013	-21.988	0.017	-7.326	-0.004
	V	-0.002	0.659	0.001	0.059	0.000	-0.064
	N	-0.001	-0.026	-4.760	-0.328	-1.585	-0.002
N26	Peso propio	0.000	-0.009	-4.702	0.092	-1.567	-0.001
	CM	0.000	-0.001	-1.281	0.008	-0.427	0.000
	Q	0.000	-0.013	-21.988	-0.017	-7.326	-0.004
	V	0.002	0.659	0.001	-0.059	0.000	-0.064
	N	0.001	-0.026	-4.760	0.328	-1.585	-0.002
N27	Peso propio	0.000	-0.004	-1.906	-0.088	-1.709	0.004
	CM	0.000	0.000	-0.528	0.006	-0.474	0.000
	Q	0.000	-0.006	-8.915	0.008	-7.993	0.006
	V	-0.002	0.444	0.000	0.091	0.000	-0.297
	N	0.000	-0.010	-1.931	-0.335	-1.730	0.012

Desplazamientos de los nudos, por hipótesis							
Referencia	Descripción	Desplazamientos en ejes globales					
		Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
N28	Peso propio	0.000	-0.004	-1.906	0.088	-1.709	0.004
	CM	0.000	0.000	-0.519	0.005	-0.466	0.000
	Q	0.000	-0.006	-8.915	-0.008	-7.993	0.006
	V	0.002	0.444	0.000	-0.091	0.000	-0.297
	N	0.000	-0.010	-1.931	0.335	-1.730	0.012

2.3.1.1.2.- Combinaciones

Desplazamientos de los nudos, por combinación								
Referencia	Combinación		Desplazamientos en ejes globales					
	Tipo	Descripción	Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
N1	Desplazamientos	PP+CM	0.000	0.000	0.000	-0.082	-2.219	0.004
		PP+CM+Q	0.000	0.000	0.000	-0.074	-10.341	0.009
		PP+CM+V	0.000	0.000	0.000	0.009	-2.218	-0.449
		PP+CM+Q+V	0.000	0.000	0.000	0.017	-10.341	-0.444
		PP+CM+N	0.000	0.000	0.000	-0.417	-3.977	0.013
		PP+CM+Q+N	0.000	0.000	0.000	-0.409	-12.100	0.019
		PP+CM+V+N	0.000	0.000	0.000	-0.326	-3.976	-0.440
		PP+CM+Q+V+N	0.000	0.000	0.000	-0.318	-12.099	-0.434
N2	Desplazamientos	PP+CM	0.000	0.000	0.000	0.092	-2.210	0.004
		PP+CM+Q	0.000	0.000	0.000	0.085	-10.333	0.009
		PP+CM+V	0.000	0.000	0.000	0.001	-2.210	-0.449
		PP+CM+Q+V	0.000	0.000	0.000	-0.007	-10.333	-0.444
		PP+CM+N	0.000	0.000	0.000	0.427	-3.968	0.013
		PP+CM+Q+N	0.000	0.000	0.000	0.419	-12.091	0.019
		PP+CM+V+N	0.000	0.000	0.000	0.336	-3.968	-0.440
		PP+CM+Q+V+N	0.000	0.000	0.000	0.328	-12.091	-0.434
N3	Desplazamientos	PP+CM	-0.001	0.000	0.000	-0.082	2.220	0.003
		PP+CM+Q	-0.002	0.000	0.000	-0.074	10.342	0.008
		PP+CM+V	0.034	0.000	0.000	-0.157	2.220	0.418
		PP+CM+Q+V	0.033	0.000	0.000	-0.150	10.343	0.423
		PP+CM+N	-0.003	0.000	0.000	-0.416	3.978	0.011
		PP+CM+Q+N	-0.004	0.000	0.000	-0.408	12.101	0.016
		PP+CM+V+N	0.032	0.000	0.000	-0.492	3.978	0.426
		PP+CM+Q+V+N	0.031	0.000	0.000	-0.484	12.101	0.431
N4	Desplazamientos	PP+CM	0.001	0.000	0.000	0.093	2.210	0.003
		PP+CM+Q	0.002	0.000	0.000	0.085	10.333	0.008
		PP+CM+V	-0.034	0.000	0.000	0.169	2.211	0.418
		PP+CM+Q+V	-0.033	0.000	0.000	0.161	10.334	0.423
		PP+CM+N	0.003	0.000	0.000	0.428	3.968	0.011
		PP+CM+Q+N	0.004	0.000	0.000	0.420	12.091	0.016
		PP+CM+V+N	-0.032	0.000	0.000	0.504	3.969	0.426
		PP+CM+Q+V+N	-0.031	0.000	0.000	0.496	12.092	0.431
N5	Desplazamientos	PP+CM	-0.001	0.004	-2.429	-0.082	2.184	0.004
		PP+CM+Q	-0.002	0.009	-11.319	-0.074	10.178	0.010
		PP+CM+V	0.034	0.410	-2.429	-0.157	2.185	0.282
		PP+CM+Q+V	0.033	0.416	-11.319	-0.150	10.178	0.288

Desplazamientos de los nudos, por combinación								
Referencia	Combinación		Desplazamientos en ejes globales					
	Tipo	Descripción	Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
		PP+CM+N	-0.003	0.012	-4.354	-0.416	3.914	0.014
		PP+CM+Q+N	-0.004	0.018	-13.244	-0.408	11.907	0.020
		PP+CM+V+N	0.032	0.419	-4.355	-0.492	3.914	0.293
		PP+CM+Q+V+N	0.031	0.425	-13.244	-0.484	11.908	0.298
N6	Desplazamientos	PP+CM	0.001	0.004	-2.419	0.093	2.175	0.004
		PP+CM+Q	0.002	0.009	-11.309	0.085	10.168	0.010
		PP+CM+V	-0.034	0.410	-2.419	0.169	2.175	0.282
		PP+CM+Q+V	-0.033	0.416	-11.309	0.161	10.169	0.288
		PP+CM+N	0.003	0.013	-4.344	0.428	3.905	0.014
		PP+CM+Q+N	0.004	0.018	-13.234	0.420	11.898	0.020
		PP+CM+V+N	-0.032	0.419	-4.344	0.504	3.905	0.293
		PP+CM+Q+V+N	-0.031	0.425	-13.234	0.496	11.899	0.298
N7	Desplazamientos	PP+CM	-0.001	0.009	-6.002	-0.082	2.003	-0.002
		PP+CM+Q	-0.002	0.020	-27.967	-0.064	9.330	-0.006
		PP+CM+V	0.033	0.631	-6.003	-0.132	2.002	0.070
		PP+CM+Q+V	0.032	0.642	-27.968	-0.115	9.330	0.066
		PP+CM+N	-0.003	0.031	-10.757	-0.410	3.588	-0.006
		PP+CM+Q+N	-0.004	0.042	-32.722	-0.393	10.916	-0.010
		PP+CM+V+N	0.031	0.653	-10.757	-0.461	3.588	0.067
		PP+CM+Q+V+N	0.030	0.664	-32.723	-0.443	10.916	0.062
N8	Desplazamientos	PP+CM	0.001	0.009	-5.977	0.101	1.994	-0.002
		PP+CM+Q	0.002	0.020	-27.942	0.084	9.322	-0.006
		PP+CM+V	-0.033	0.631	-5.978	0.151	1.994	0.070
		PP+CM+Q+V	-0.032	0.642	-27.943	0.134	9.322	0.066
		PP+CM+N	0.003	0.031	-10.732	0.429	3.580	-0.006
		PP+CM+Q+N	0.004	0.042	-32.697	0.412	10.908	-0.010
		PP+CM+V+N	-0.031	0.653	-10.732	0.480	3.580	0.067
		PP+CM+Q+V+N	-0.030	0.664	-32.698	0.462	10.907	0.062
N9	Desplazamientos	PP+CM	-0.001	0.000	-9.141	-0.077	1.692	0.000
		PP+CM+Q	-0.002	-0.001	-42.592	-0.052	7.881	0.001
		PP+CM+V	0.030	0.731	-9.142	-0.095	1.692	0.060
		PP+CM+Q+V	0.029	0.730	-42.593	-0.070	7.881	0.061
		PP+CM+N	-0.003	0.004	-16.382	-0.401	3.031	-0.003
		PP+CM+Q+N	-0.004	0.002	-49.833	-0.376	9.221	-0.001
		PP+CM+V+N	0.028	0.735	-16.382	-0.419	3.031	0.057
		PP+CM+Q+V+N	0.027	0.733	-49.833	-0.393	9.221	0.059
N10	Desplazamientos	PP+CM	0.001	0.000	-9.103	0.105	1.685	0.000
		PP+CM+Q	0.002	-0.002	-42.554	0.080	7.874	0.001
		PP+CM+V	-0.030	0.731	-9.103	0.123	1.685	0.060
		PP+CM+Q+V	-0.029	0.730	-42.554	0.097	7.874	0.061
		PP+CM+N	0.003	0.004	-16.343	0.429	3.024	-0.003
		PP+CM+Q+N	0.004	0.002	-49.794	0.404	9.214	-0.001
		PP+CM+V+N	-0.028	0.735	-16.344	0.447	3.024	0.057
		PP+CM+Q+V+N	-0.027	0.733	-49.795	0.421	9.214	0.059
N11	Desplazamientos	PP+CM	-0.001	0.006	-11.660	-0.073	1.280	-0.001
		PP+CM+Q	-0.002	0.017	-54.324	-0.041	5.964	-0.004
		PP+CM+V	0.025	0.823	-11.660	-0.083	1.280	0.043

Desplazamientos de los nudos, por combinación								
Referencia	Combinación		Desplazamientos en ejes globales					
	Tipo	Descripción	Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
		PP+CM+Q+V	0.025	0.834	-54.324	-0.051	5.964	0.040
		PP+CM+N	-0.003	0.020	-20.893	-0.394	2.294	-0.004
		PP+CM+Q+N	-0.004	0.031	-63.558	-0.363	6.978	-0.007
		PP+CM+V+N	0.023	0.837	-20.894	-0.404	2.294	0.040
		PP+CM+Q+V+N	0.023	0.848	-63.558	-0.373	6.978	0.037
N12	Desplazamientos	PP+CM	0.001	0.006	-11.610	0.108	1.275	-0.001
		PP+CM+Q	0.002	0.017	-54.274	0.077	5.959	-0.004
		PP+CM+V	-0.025	0.823	-11.611	0.118	1.275	0.043
		PP+CM+Q+V	-0.025	0.834	-54.275	0.087	5.959	0.040
		PP+CM+N	0.003	0.020	-20.844	0.430	2.288	-0.004
		PP+CM+Q+N	0.004	0.031	-63.508	0.398	6.973	-0.007
		PP+CM+V+N	-0.023	0.837	-20.844	0.440	2.288	0.040
		PP+CM+Q+V+N	-0.023	0.848	-63.509	0.408	6.973	0.037
N13	Desplazamientos	PP+CM	-0.001	-0.003	-13.416	-0.070	0.797	-0.001
		PP+CM+Q	-0.002	-0.012	-62.508	-0.034	3.713	-0.001
		PP+CM+V	0.021	0.872	-13.416	-0.070	0.797	0.027
		PP+CM+Q+V	0.020	0.863	-62.508	-0.035	3.713	0.027
		PP+CM+N	-0.003	-0.009	-24.041	-0.390	1.428	-0.003
		PP+CM+Q+N	-0.003	-0.017	-73.133	-0.354	4.344	-0.003
		PP+CM+V+N	0.019	0.866	-24.041	-0.390	1.428	0.025
		PP+CM+Q+V+N	0.018	0.858	-73.133	-0.355	4.344	0.024
N14	Desplazamientos	PP+CM	0.001	-0.003	-13.360	0.110	0.794	-0.001
		PP+CM+Q	0.002	-0.012	-62.452	0.074	3.710	-0.001
		PP+CM+V	-0.021	0.872	-13.360	0.111	0.794	0.027
		PP+CM+Q+V	-0.020	0.863	-62.452	0.075	3.710	0.027
		PP+CM+N	0.003	-0.009	-23.984	0.430	1.425	-0.003
		PP+CM+Q+N	0.003	-0.017	-73.076	0.394	4.341	-0.003
		PP+CM+V+N	-0.019	0.866	-23.985	0.431	1.425	0.025
		PP+CM+Q+V+N	-0.018	0.858	-73.077	0.395	4.341	0.024
N15	Desplazamientos	PP+CM	-0.001	0.004	-14.318	-0.068	0.270	-0.001
		PP+CM+Q	-0.001	0.012	-66.711	-0.030	1.261	-0.002
		PP+CM+V	0.016	0.910	-14.318	-0.071	0.270	0.010
		PP+CM+Q+V	0.015	0.918	-66.711	-0.033	1.261	0.008
		PP+CM+N	-0.002	0.009	-25.657	-0.387	0.485	-0.004
		PP+CM+Q+N	-0.003	0.018	-78.049	-0.350	1.476	-0.005
		PP+CM+V+N	0.014	0.915	-25.657	-0.390	0.485	0.007
		PP+CM+Q+V+N	0.013	0.924	-78.049	-0.353	1.475	0.006
N16	Desplazamientos	PP+CM	0.001	0.004	-14.258	0.111	0.270	-0.001
		PP+CM+Q	0.001	0.012	-66.651	0.073	1.260	-0.002
		PP+CM+V	-0.016	0.910	-14.258	0.114	0.270	0.010
		PP+CM+Q+V	-0.015	0.918	-66.651	0.076	1.260	0.008
		PP+CM+N	0.002	0.009	-25.597	0.430	0.484	-0.004
		PP+CM+Q+N	0.003	0.018	-77.990	0.392	1.475	-0.005
		PP+CM+V+N	-0.014	0.915	-25.597	0.433	0.484	0.007
		PP+CM+Q+V+N	-0.013	0.924	-77.990	0.395	1.475	0.006
N17	Desplazamientos	PP+CM	-0.001	-0.007	-14.317	-0.068	-0.271	-0.001
		PP+CM+Q	-0.001	-0.019	-66.713	-0.031	-1.258	-0.002

Desplazamientos de los nudos, por combinación								
Referencia	Combinación		Desplazamientos en ejes globales					
	Tipo	Descripción	Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
		PP+CM+V	0.010	0.903	-14.317	-0.065	-0.271	-0.007
		PP+CM+Q+V	0.010	0.891	-66.713	-0.027	-1.258	-0.008
		PP+CM+N	-0.002	-0.020	-25.657	-0.388	-0.484	-0.003
		PP+CM+Q+N	-0.003	-0.032	-78.053	-0.350	-1.471	-0.005
		PP+CM+V+N	0.009	0.889	-25.657	-0.384	-0.484	-0.009
		PP+CM+Q+V+N	0.008	0.877	-78.053	-0.347	-1.471	-0.011
N18	Desplazamientos	PP+CM	0.001	-0.007	-14.259	0.110	-0.269	-0.001
		PP+CM+Q	0.001	-0.019	-66.655	0.072	-1.256	-0.002
		PP+CM+V	-0.010	0.903	-14.259	0.107	-0.269	-0.007
		PP+CM+Q+V	-0.010	0.891	-66.655	0.069	-1.256	-0.008
		PP+CM+N	0.002	-0.020	-25.599	0.430	-0.482	-0.003
		PP+CM+Q+N	0.003	-0.033	-77.994	0.392	-1.470	-0.005
		PP+CM+V+N	-0.009	0.889	-25.598	0.426	-0.482	-0.009
		PP+CM+Q+V+N	-0.008	0.877	-77.994	0.389	-1.470	-0.011
N19	Desplazamientos	PP+CM	0.000	0.001	-13.415	-0.071	-0.797	-0.001
		PP+CM+Q	-0.001	0.006	-62.516	-0.035	-3.710	0.000
		PP+CM+V	0.006	0.886	-13.415	-0.069	-0.797	-0.023
		PP+CM+Q+V	0.005	0.891	-62.516	-0.034	-3.710	-0.023
		PP+CM+N	-0.002	-0.002	-24.042	-0.391	-1.427	-0.002
		PP+CM+Q+N	-0.002	0.003	-73.143	-0.355	-4.340	-0.002
		PP+CM+V+N	0.004	0.883	-24.042	-0.389	-1.427	-0.025
		PP+CM+Q+V+N	0.004	0.888	-73.143	-0.354	-4.340	-0.025
N20	Desplazamientos	PP+CM	0.000	0.001	-13.362	0.109	-0.793	-0.001
		PP+CM+Q	0.001	0.006	-62.463	0.073	-3.706	0.000
		PP+CM+V	-0.006	0.886	-13.362	0.108	-0.793	-0.023
		PP+CM+Q+V	-0.005	0.891	-62.463	0.072	-3.706	-0.023
		PP+CM+N	0.002	-0.002	-23.989	0.429	-1.423	-0.002
		PP+CM+Q+N	0.002	0.003	-73.090	0.393	-4.336	-0.002
		PP+CM+V+N	-0.004	0.883	-23.989	0.428	-1.423	-0.025
		PP+CM+Q+V+N	-0.004	0.888	-73.090	0.392	-4.336	-0.025
N21	Desplazamientos	PP+CM	0.000	-0.009	-11.659	-0.074	-1.280	-0.001
		PP+CM+Q	-0.001	-0.023	-54.338	-0.043	-5.961	-0.004
		PP+CM+V	0.002	0.825	-11.659	-0.063	-1.280	-0.040
		PP+CM+Q+V	0.001	0.812	-54.338	-0.031	-5.961	-0.042
		PP+CM+N	-0.002	-0.029	-20.896	-0.396	-2.292	-0.004
		PP+CM+Q+N	-0.002	-0.043	-63.575	-0.364	-6.974	-0.006
		PP+CM+V+N	0.001	0.805	-20.896	-0.384	-2.293	-0.042
		PP+CM+Q+V+N	0.000	0.791	-63.575	-0.352	-6.974	-0.045
N22	Desplazamientos	PP+CM	0.000	-0.009	-11.614	0.107	-1.274	-0.001
		PP+CM+Q	0.001	-0.023	-54.293	0.075	-5.955	-0.004
		PP+CM+V	-0.002	0.825	-11.614	0.095	-1.274	-0.040
		PP+CM+Q+V	-0.001	0.811	-54.293	0.064	-5.955	-0.042
		PP+CM+N	0.002	-0.029	-20.851	0.428	-2.287	-0.004
		PP+CM+Q+N	0.002	-0.043	-63.530	0.397	-6.968	-0.006
		PP+CM+V+N	-0.001	0.805	-20.851	0.417	-2.287	-0.042
		PP+CM+Q+V+N	0.000	0.791	-63.530	0.385	-6.968	-0.045
N23	Desplazamientos	PP+CM	0.000	-0.002	-9.143	-0.079	-1.691	0.000

Desplazamientos de los nudos, por combinación								
Referencia	Combinación		Desplazamientos en ejes globales					
	Tipo	Descripción	Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
		PP+CM+Q	-0.001	-0.003	-42.613	-0.053	-7.878	0.002
		PP+CM+V	-0.001	0.754	-9.142	-0.058	-1.691	-0.053
		PP+CM+Q+V	-0.001	0.754	-42.613	-0.032	-7.878	-0.052
		PP+CM+N	-0.001	-0.012	-16.387	-0.402	-3.029	-0.001
		PP+CM+Q+N	-0.002	-0.012	-49.857	-0.377	-9.217	0.000
		PP+CM+V+N	-0.002	0.745	-16.387	-0.381	-3.029	-0.054
		PP+CM+Q+V+N	-0.002	0.745	-49.857	-0.356	-9.217	-0.053
N24	Desplazamientos	PP+CM	0.000	-0.002	-9.108	0.104	-1.684	0.000
		PP+CM+Q	0.001	-0.003	-42.578	0.078	-7.871	0.002
		PP+CM+V	0.001	0.754	-9.108	0.083	-1.684	-0.053
		PP+CM+Q+V	0.001	0.754	-42.578	0.057	-7.871	-0.052
		PP+CM+N	0.001	-0.012	-16.353	0.428	-3.023	-0.001
		PP+CM+Q+N	0.002	-0.012	-49.823	0.402	-9.210	0.000
		PP+CM+V+N	0.002	0.745	-16.352	0.407	-3.023	-0.054
		PP+CM+Q+V+N	0.002	0.745	-49.822	0.381	-9.210	-0.053
N25	Desplazamientos	PP+CM	0.000	-0.010	-6.006	-0.083	-2.001	-0.002
		PP+CM+Q	0.000	-0.023	-27.994	-0.065	-9.327	-0.005
		PP+CM+V	-0.003	0.649	-6.005	-0.023	-2.002	-0.066
		PP+CM+Q+V	-0.003	0.636	-27.993	-0.006	-9.328	-0.069
		PP+CM+N	-0.001	-0.036	-10.765	-0.411	-3.587	-0.004
		PP+CM+Q+N	-0.001	-0.049	-32.753	-0.394	-10.913	-0.008
		PP+CM+V+N	-0.003	0.623	-10.765	-0.352	-3.587	-0.068
		PP+CM+Q+V+N	-0.003	0.610	-32.753	-0.334	-10.913	-0.072
N26	Desplazamientos	PP+CM	0.000	-0.010	-5.983	0.100	-1.994	-0.002
		PP+CM+Q	0.000	-0.023	-27.971	0.082	-9.320	-0.005
		PP+CM+V	0.003	0.649	-5.983	0.040	-1.994	-0.066
		PP+CM+Q+V	0.003	0.636	-27.971	0.023	-9.320	-0.069
		PP+CM+N	0.001	-0.036	-10.743	0.428	-3.579	-0.004
		PP+CM+Q+N	0.001	-0.049	-32.731	0.411	-10.905	-0.008
		PP+CM+V+N	0.003	0.623	-10.742	0.369	-3.579	-0.068
		PP+CM+Q+V+N	0.003	0.610	-32.731	0.351	-10.905	-0.072
N27	Desplazamientos	PP+CM	0.000	-0.004	-2.435	-0.082	-2.183	0.005
		PP+CM+Q	0.000	-0.010	-11.349	-0.074	-10.176	0.011
		PP+CM+V	-0.002	0.440	-2.434	0.009	-2.183	-0.292
		PP+CM+Q+V	-0.002	0.434	-11.349	0.017	-10.175	-0.286
		PP+CM+N	0.000	-0.015	-4.365	-0.417	-3.913	0.016
		PP+CM+Q+N	0.000	-0.020	-13.280	-0.409	-11.905	0.022
		PP+CM+V+N	-0.002	0.429	-4.365	-0.326	-3.912	-0.281
		PP+CM+Q+V+N	-0.002	0.424	-13.280	-0.318	-11.905	-0.274
N28	Desplazamientos	PP+CM	0.000	-0.004	-2.426	0.092	-2.175	0.005
		PP+CM+Q	0.000	-0.010	-11.340	0.085	-10.167	0.011
		PP+CM+V	0.002	0.440	-2.425	0.001	-2.174	-0.292
		PP+CM+Q+V	0.002	0.434	-11.340	-0.007	-10.167	-0.286
		PP+CM+N	0.000	-0.015	-4.356	0.427	-3.905	0.016
		PP+CM+Q+N	0.000	-0.020	-13.271	0.419	-11.897	0.022
		PP+CM+V+N	0.002	0.429	-4.356	0.336	-3.904	-0.281
		PP+CM+Q+V+N	0.002	0.423	-13.271	0.328	-11.897	-0.274

2.3.1.1.3.- Envolventes

Envolvente de los desplazamientos en nudos								
Referencia	Combinación		Desplazamientos en ejes globales					
	Tipo	Descripción	Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
N1	Desplazamientos	Valor mínimo de la envolvente	0.000	0.000	0.000	-0.417	-12.100	-0.449
		Valor máximo de la envolvente	0.000	0.000	0.000	0.017	-2.218	0.019
N2	Desplazamientos	Valor mínimo de la envolvente	0.000	0.000	0.000	-0.007	-12.091	-0.449
		Valor máximo de la envolvente	0.000	0.000	0.000	0.427	-2.210	0.019
N3	Desplazamientos	Valor mínimo de la envolvente	-0.004	0.000	0.000	-0.492	2.220	0.003
		Valor máximo de la envolvente	0.034	0.000	0.000	-0.074	12.101	0.431
N4	Desplazamientos	Valor mínimo de la envolvente	-0.034	0.000	0.000	0.085	2.210	0.003
		Valor máximo de la envolvente	0.004	0.000	0.000	0.504	12.092	0.431
N5	Desplazamientos	Valor mínimo de la envolvente	-0.004	0.004	-13.244	-0.492	2.184	0.004
		Valor máximo de la envolvente	0.034	0.425	-2.429	-0.074	11.908	0.298
N6	Desplazamientos	Valor mínimo de la envolvente	-0.034	0.004	-13.234	0.085	2.175	0.004
		Valor máximo de la envolvente	0.004	0.425	-2.419	0.504	11.899	0.298
N7	Desplazamientos	Valor mínimo de la envolvente	-0.004	0.009	-32.723	-0.461	2.002	-0.010
		Valor máximo de la envolvente	0.033	0.664	-6.002	-0.064	10.916	0.070
N8	Desplazamientos	Valor mínimo de la envolvente	-0.033	0.009	-32.698	0.084	1.994	-0.010
		Valor máximo de la envolvente	0.004	0.664	-5.977	0.480	10.908	0.070
N9	Desplazamientos	Valor mínimo de la envolvente	-0.004	-0.001	-49.833	-0.419	1.692	-0.003
		Valor máximo de la envolvente	0.030	0.735	-9.141	-0.052	9.221	0.061
N10	Desplazamientos	Valor mínimo de la envolvente	-0.030	-0.002	-49.795	0.080	1.685	-0.003
		Valor máximo de la envolvente	0.004	0.735	-9.103	0.447	9.214	0.061
N11	Desplazamientos	Valor mínimo de la envolvente	-0.004	0.006	-63.558	-0.404	1.280	-0.007
		Valor máximo de la envolvente	0.025	0.848	-11.660	-0.041	6.978	0.043
N12	Desplazamientos	Valor mínimo de la envolvente	-0.025	0.006	-63.509	0.077	1.275	-0.007
		Valor máximo de la envolvente	0.004	0.848	-11.610	0.440	6.973	0.043
N13	Desplazamientos	Valor mínimo de la envolvente	-0.003	-0.017	-73.133	-0.390	0.797	-0.003
		Valor máximo de la envolvente	0.021	0.872	-13.416	-0.034	4.344	0.027
N14	Desplazamientos	Valor mínimo de la envolvente	-0.021	-0.017	-73.077	0.074	0.794	-0.003
		Valor máximo de la envolvente	0.003	0.872	-13.360	0.431	4.341	0.027
N15	Desplazamientos	Valor mínimo de la envolvente	-0.003	0.004	-78.049	-0.390	0.270	-0.005
		Valor máximo de la envolvente	0.016	0.924	-14.318	-0.030	1.476	0.010
N16	Desplazamientos	Valor mínimo de la envolvente	-0.016	0.004	-77.990	0.073	0.270	-0.005
		Valor máximo de la envolvente	0.003	0.924	-14.258	0.433	1.475	0.010
N17	Desplazamientos	Valor mínimo de la envolvente	-0.003	-0.032	-78.053	-0.388	-1.471	-0.011
		Valor máximo de la envolvente	0.010	0.903	-14.317	-0.027	-0.271	-0.001
N18	Desplazamientos	Valor mínimo de la envolvente	-0.010	-0.033	-77.994	0.069	-1.470	-0.011
		Valor máximo de la envolvente	0.003	0.903	-14.259	0.430	-0.269	-0.001
N19	Desplazamientos	Valor mínimo de la envolvente	-0.002	-0.002	-73.143	-0.391	-4.340	-0.025
		Valor máximo de la envolvente	0.006	0.891	-13.415	-0.034	-0.797	0.000
N20	Desplazamientos	Valor mínimo de la envolvente	-0.006	-0.002	-73.090	0.072	-4.336	-0.025
		Valor máximo de la envolvente	0.002	0.891	-13.362	0.429	-0.793	0.000
N21	Desplazamientos	Valor mínimo de la envolvente	-0.002	-0.043	-63.575	-0.396	-6.974	-0.045
		Valor máximo de la envolvente	0.002	0.825	-11.659	-0.031	-1.280	-0.001
N22	Desplazamientos	Valor mínimo de la envolvente	-0.002	-0.043	-63.530	0.064	-6.968	-0.045
		Valor máximo de la envolvente	0.002	0.825	-11.614	0.428	-1.274	-0.001
N23	Desplazamientos	Valor mínimo de la envolvente	-0.002	-0.012	-49.857	-0.402	-9.217	-0.054

Envolvente de los desplazamientos en nudos								
Referencia	Combinación		Desplazamientos en ejes globales					
	Tipo	Descripción	Dx (mm)	Dy (mm)	Dz (mm)	Gx (mRad)	Gy (mRad)	Gz (mRad)
		Valor máximo de la envolvente	0.000	0.754	-9.142	-0.032	-1.691	0.002
N24	Desplazamientos	Valor mínimo de la envolvente	0.000	-0.012	-49.823	0.057	-9.210	-0.054
		Valor máximo de la envolvente	0.002	0.754	-9.108	0.428	-1.684	0.002
N25	Desplazamientos	Valor mínimo de la envolvente	-0.003	-0.049	-32.753	-0.411	-10.913	-0.072
		Valor máximo de la envolvente	0.000	0.649	-6.005	-0.006	-2.001	-0.002
N26	Desplazamientos	Valor mínimo de la envolvente	0.000	-0.049	-32.731	0.023	-10.905	-0.072
		Valor máximo de la envolvente	0.003	0.649	-5.983	0.428	-1.994	-0.002
N27	Desplazamientos	Valor mínimo de la envolvente	-0.002	-0.020	-13.280	-0.417	-11.905	-0.292
		Valor máximo de la envolvente	0.000	0.440	-2.434	0.017	-2.183	0.022
N28	Desplazamientos	Valor mínimo de la envolvente	0.000	-0.020	-13.271	-0.007	-11.897	-0.292
		Valor máximo de la envolvente	0.002	0.440	-2.425	0.427	-2.174	0.022

2.3.1.2.- Reacciones

Referencias:

Rx, Ry, Rz: Reacciones en nudos con desplazamientos coaccionados (fuerzas).

Mx, My, Mz: Reacciones en nudos con giros coaccionados (momentos).

2.3.1.2.1.- Hipótesis

Reacciones en los nudos, por hipótesis							
Referencia	Descripción	Reacciones en ejes globales					
		Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
N1	Peso propio	0.202	-0.014	11.673	0.00	0.00	0.00
	CM	0.015	-0.001	3.241	0.00	0.00	0.00
	Q	0.258	-0.017	55.000	0.00	0.00	0.00
	V	3.943	-3.145	0.000	0.00	0.00	0.00
	N	0.596	-0.040	11.764	0.00	0.00	0.00
N2	Peso propio	-0.202	-0.014	11.673	0.00	0.00	0.00
	CM	-0.015	-0.001	3.200	0.00	0.00	0.00
	Q	-0.258	-0.017	55.000	0.00	0.00	0.00
	V	-3.943	-3.145	0.000	0.00	0.00	0.00
	N	-0.596	-0.040	11.764	0.00	0.00	0.00
N3	Peso propio	0.000	0.014	11.674	0.00	0.00	0.00
	CM	0.000	0.001	3.257	0.00	0.00	0.00
	Q	0.000	0.017	55.000	0.00	0.00	0.00
	V	0.000	-2.735	0.000	0.00	0.00	0.00
	N	0.000	0.040	11.766	0.00	0.00	0.00
N4	Peso propio	0.000	0.014	11.674	0.00	0.00	0.00
	CM	0.000	0.001	3.200	0.00	0.00	0.00
	Q	0.000	0.017	55.000	0.00	0.00	0.00
	V	0.000	-2.694	0.000	0.00	0.00	0.00
	N	0.000	0.040	11.766	0.00	0.00	0.00

2.3.1.2.2.- Combinaciones

Reacciones en los nudos, por combinación								
Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
N1	Hormigón en cimentaciones	PP+CM	0.217	-0.015	14.914	0.00	0.00	0.00
		1.6·PP+CM	0.338	-0.023	21.918	0.00	0.00	0.00
		PP+1.6·CM	0.226	-0.016	16.859	0.00	0.00	0.00
		1.6·PP+1.6·CM	0.347	-0.024	23.863	0.00	0.00	0.00
		PP+CM+1.6·Q	0.629	-0.043	102.914	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q	0.751	-0.051	109.918	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q	0.638	-0.044	104.859	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q	0.760	-0.052	111.863	0.00	0.00	0.00
		PP+CM+1.6·V	6.526	-5.047	14.914	0.00	0.00	0.00
		1.6·PP+CM+1.6·V	6.647	-5.055	21.918	0.00	0.00	0.00
		PP+1.6·CM+1.6·V	6.535	-5.047	16.859	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V	6.656	-5.056	23.863	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V	6.814	-5.066	76.514	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V	6.936	-5.074	83.518	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V	6.824	-5.067	78.459	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·V	6.945	-5.075	85.463	0.00	0.00	0.00
		PP+CM+1.6·Q+0.96·V	4.415	-3.062	102.914	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V	4.536	-3.070	109.918	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V	4.424	-3.063	104.859	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V	4.545	-3.071	111.863	0.00	0.00	0.00
		PP+CM+1.6·N	1.170	-0.079	33.737	0.00	0.00	0.00
		1.6·PP+CM+1.6·N	1.291	-0.088	40.741	0.00	0.00	0.00
		PP+1.6·CM+1.6·N	1.179	-0.080	35.681	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·N	1.300	-0.088	42.685	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·N	1.459	-0.099	95.337	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·N	1.580	-0.107	102.341	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·N	1.468	-0.100	97.281	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·N	1.589	-0.108	104.285	0.00	0.00	0.00
		PP+CM+0.96·V+1.6·N	4.955	-3.098	33.737	0.00	0.00	0.00
		1.6·PP+CM+0.96·V+1.6·N	5.077	-3.106	40.741	0.00	0.00	0.00
		PP+1.6·CM+0.96·V+1.6·N	4.964	-3.099	35.681	0.00	0.00	0.00
		1.6·PP+1.6·CM+0.96·V+1.6·N	5.086	-3.107	42.685	0.00	0.00	0.00
		PP+CM+1.12·Q+0.96·V+1.6·N	5.244	-3.118	95.337	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+0.96·V+1.6·N	5.365	-3.126	102.341	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+0.96·V+1.6·N	5.253	-3.119	97.281	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+0.96·V+1.6·N	5.374	-3.127	104.285	0.00	0.00	0.00
		PP+CM+1.6·Q+0.8·N	1.106	-0.075	112.326	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.8·N	1.227	-0.083	119.329	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.8·N	1.115	-0.076	114.270	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.8·N	1.236	-0.084	121.274	0.00	0.00	0.00
		PP+CM+1.6·V+0.8·N	7.002	-5.079	24.326	0.00	0.00	0.00
		1.6·PP+CM+1.6·V+0.8·N	7.124	-5.087	31.329	0.00	0.00	0.00
		PP+1.6·CM+1.6·V+0.8·N	7.011	-5.080	26.270	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V+0.8·N	7.133	-5.088	33.274	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V+0.8·N	7.291	-5.098	85.926	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V+0.8·N	7.412	-5.106	92.929	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V+0.8·N	7.300	-5.099	87.870	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·V+0.8·N	7.421	-5.107	94.874	0.00	0.00	0.00

Reacciones en los nudos, por combinación								
Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
	Tensiones sobre el terreno	PP+CM+1.6·Q+0.96·V+0.8·N	4.891	-3.094	112.326	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V+0.8·N	5.012	-3.102	119.329	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V+0.8·N	4.900	-3.095	114.270	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V+0.8·N	5.021	-3.103	121.274	0.00	0.00	0.00
		PP+CM	0.217	-0.015	14.914	0.00	0.00	0.00
		PP+CM+Q	0.475	-0.032	69.914	0.00	0.00	0.00
		PP+CM+V	4.160	-3.160	14.914	0.00	0.00	0.00
		PP+CM+Q+V	4.418	-3.177	69.914	0.00	0.00	0.00
		PP+CM+N	0.813	-0.055	26.678	0.00	0.00	0.00
		PP+CM+Q+N	1.070	-0.073	81.678	0.00	0.00	0.00
		PP+CM+V+N	4.756	-3.200	26.678	0.00	0.00	0.00
		PP+CM+Q+V+N	5.013	-3.217	81.678	0.00	0.00	0.00
		PP+CM	-0.217	-0.014	14.873	0.00	0.00	0.00
N2	Hormigón en cimentaciones	1.6·PP+CM	-0.338	-0.022	21.877	0.00	0.00	0.00
		PP+1.6·CM	-0.226	-0.015	16.793	0.00	0.00	0.00
		1.6·PP+1.6·CM	-0.347	-0.023	23.797	0.00	0.00	0.00
		PP+CM+1.6·Q	-0.629	-0.042	102.873	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q	-0.751	-0.050	109.877	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q	-0.638	-0.042	104.793	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q	-0.760	-0.051	111.797	0.00	0.00	0.00
		PP+CM+1.6·V	-6.526	-5.046	14.873	0.00	0.00	0.00
		1.6·PP+CM+1.6·V	-6.647	-5.054	21.877	0.00	0.00	0.00
		PP+1.6·CM+1.6·V	-6.535	-5.046	16.793	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V	-6.656	-5.054	23.797	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V	-6.814	-5.065	76.473	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V	-6.936	-5.073	83.477	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V	-6.824	-5.066	78.393	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·V	-6.945	-5.074	85.397	0.00	0.00	0.00
		PP+CM+1.6·Q+0.96·V	-4.415	-3.061	102.873	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V	-4.536	-3.069	109.877	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V	-4.424	-3.061	104.793	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V	-4.545	-3.070	111.797	0.00	0.00	0.00
		PP+CM+1.6·N	-1.170	-0.079	33.696	0.00	0.00	0.00
		1.6·PP+CM+1.6·N	-1.291	-0.087	40.700	0.00	0.00	0.00
		PP+1.6·CM+1.6·N	-1.179	-0.079	35.616	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·N	-1.300	-0.087	42.620	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·N	-1.459	-0.098	95.296	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·N	-1.580	-0.106	102.300	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·N	-1.468	-0.098	97.216	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·N	-1.589	-0.107	104.220	0.00	0.00	0.00
		PP+CM+0.96·V+1.6·N	-4.955	-3.098	33.696	0.00	0.00	0.00
		1.6·PP+CM+0.96·V+1.6·N	-5.077	-3.106	40.700	0.00	0.00	0.00
		PP+1.6·CM+0.96·V+1.6·N	-4.964	-3.098	35.616	0.00	0.00	0.00
		1.6·PP+1.6·CM+0.96·V+1.6·N	-5.086	-3.106	42.620	0.00	0.00	0.00
		PP+CM+1.12·Q+0.96·V+1.6·N	-5.244	-3.117	95.296	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+0.96·V+1.6·N	-5.365	-3.125	102.300	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+0.96·V+1.6·N	-5.253	-3.117	97.216	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+0.96·V+1.6·N	-5.374	-3.126	104.220	0.00	0.00	0.00
		PP+CM+1.6·Q+0.8·N	-1.106	-0.074	112.285	0.00	0.00	0.00

Reacciones en los nudos, por combinación								
Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
		1.6·PP+CM+1.6·Q+0.8·N	-1.227	-0.082	119.288	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.8·N	-1.115	-0.075	114.205	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.8·N	-1.236	-0.083	121.208	0.00	0.00	0.00
		PP+CM+1.6·V+0.8·N	-7.002	-5.078	24.285	0.00	0.00	0.00
		1.6·PP+CM+1.6·V+0.8·N	-7.124	-5.086	31.288	0.00	0.00	0.00
		PP+1.6·CM+1.6·V+0.8·N	-7.011	-5.078	26.205	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V+0.8·N	-7.133	-5.087	33.208	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V+0.8·N	-7.291	-5.097	85.885	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V+0.8·N	-7.412	-5.106	92.888	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V+0.8·N	-7.300	-5.098	87.805	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·V+0.8·N	-7.421	-5.106	94.808	0.00	0.00	0.00
		PP+CM+1.6·Q+0.96·V+0.8·N	-4.891	-3.093	112.285	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V+0.8·N	-5.012	-3.101	119.288	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V+0.8·N	-4.900	-3.094	114.205	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V+0.8·N	-5.021	-3.102	121.208	0.00	0.00	0.00
	Tensiones sobre el terreno	PP+CM	-0.217	-0.014	14.873	0.00	0.00	0.00
		PP+CM+Q	-0.475	-0.032	69.873	0.00	0.00	0.00
		PP+CM+V	-4.160	-3.159	14.873	0.00	0.00	0.00
		PP+CM+Q+V	-4.418	-3.176	69.873	0.00	0.00	0.00
		PP+CM+N	-0.813	-0.054	26.637	0.00	0.00	0.00
		PP+CM+Q+N	-1.070	-0.072	81.637	0.00	0.00	0.00
		PP+CM+V+N	-4.756	-3.199	26.637	0.00	0.00	0.00
		PP+CM+Q+V+N	-5.013	-3.217	81.637	0.00	0.00	0.00
N3	Hormigón en cimentaciones	PP+CM	0.000	0.015	14.930	0.00	0.00	0.00
		1.6·PP+CM	0.000	0.023	21.935	0.00	0.00	0.00
		PP+1.6·CM	0.000	0.016	16.884	0.00	0.00	0.00
		1.6·PP+1.6·CM	0.000	0.024	23.889	0.00	0.00	0.00
		PP+CM+1.6·Q	0.000	0.043	102.930	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q	0.000	0.051	109.935	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q	0.000	0.044	104.884	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q	0.000	0.052	111.889	0.00	0.00	0.00
		PP+CM+1.6·V	0.000	-4.361	14.930	0.00	0.00	0.00
		1.6·PP+CM+1.6·V	0.000	-4.352	21.935	0.00	0.00	0.00
		PP+1.6·CM+1.6·V	0.000	-4.360	16.884	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V	0.000	-4.352	23.889	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V	0.000	-4.341	76.530	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V	0.000	-4.333	83.535	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V	0.000	-4.340	78.484	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·V	0.000	-4.332	85.489	0.00	0.00	0.00
		PP+CM+1.6·Q+0.96·V	0.000	-2.583	102.930	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V	0.000	-2.574	109.935	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V	0.000	-2.582	104.884	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V	0.000	-2.573	111.889	0.00	0.00	0.00
		PP+CM+1.6·N	0.000	0.079	33.756	0.00	0.00	0.00
		1.6·PP+CM+1.6·N	0.000	0.088	40.760	0.00	0.00	0.00
		PP+1.6·CM+1.6·N	0.000	0.080	35.710	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·N	0.000	0.088	42.714	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·N	0.000	0.099	95.356	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·N	0.000	0.107	102.360	0.00	0.00	0.00

Reacciones en los nudos, por combinación								
Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
		PP+1.6·CM+1.12·Q+1.6·N	0.000	0.100	97.310	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·N	0.000	0.108	104.314	0.00	0.00	0.00
		PP+CM+0.96·V+1.6·N	0.000	-2.546	33.756	0.00	0.00	0.00
		1.6·PP+CM+0.96·V+1.6·N	0.000	-2.538	40.760	0.00	0.00	0.00
		PP+1.6·CM+0.96·V+1.6·N	0.000	-2.545	35.710	0.00	0.00	0.00
		1.6·PP+1.6·CM+0.96·V+1.6·N	0.000	-2.537	42.714	0.00	0.00	0.00
		PP+CM+1.12·Q+0.96·V+1.6·N	0.000	-2.527	95.356	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+0.96·V+1.6·N	0.000	-2.518	102.360	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+0.96·V+1.6·N	0.000	-2.526	97.310	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+0.96·V+1.6·N	0.000	-2.518	104.314	0.00	0.00	0.00
		PP+CM+1.6·Q+0.8·N	0.000	0.075	112.343	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.8·N	0.000	0.083	119.347	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.8·N	0.000	0.076	114.297	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.8·N	0.000	0.084	121.301	0.00	0.00	0.00
		PP+CM+1.6·V+0.8·N	0.000	-4.329	24.343	0.00	0.00	0.00
		1.6·PP+CM+1.6·V+0.8·N	0.000	-4.320	31.347	0.00	0.00	0.00
		PP+1.6·CM+1.6·V+0.8·N	0.000	-4.328	26.297	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V+0.8·N	0.000	-4.319	33.301	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V+0.8·N	0.000	-4.309	85.943	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V+0.8·N	0.000	-4.301	92.947	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V+0.8·N	0.000	-4.308	87.897	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·V+0.8·N	0.000	-4.300	94.901	0.00	0.00	0.00
		PP+CM+1.6·Q+0.96·V+0.8·N	0.000	-2.550	112.343	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V+0.8·N	0.000	-2.542	119.347	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V+0.8·N	0.000	-2.550	114.297	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V+0.8·N	0.000	-2.541	121.301	0.00	0.00	0.00
	Tensiones sobre el terreno	PP+CM	0.000	0.015	14.930	0.00	0.00	0.00
		PP+CM+Q	0.000	0.032	69.930	0.00	0.00	0.00
		PP+CM+V	0.000	-2.720	14.930	0.00	0.00	0.00
		PP+CM+Q+V	0.000	-2.702	69.930	0.00	0.00	0.00
		PP+CM+N	0.000	0.055	26.696	0.00	0.00	0.00
		PP+CM+Q+N	0.000	0.073	81.696	0.00	0.00	0.00
		PP+CM+V+N	0.000	-2.680	26.696	0.00	0.00	0.00
		PP+CM+Q+V+N	0.000	-2.662	81.696	0.00	0.00	0.00
N4	Hormigón en cimentaciones	PP+CM	0.000	0.014	14.874	0.00	0.00	0.00
		1.6·PP+CM	0.000	0.022	21.878	0.00	0.00	0.00
		PP+1.6·CM	0.000	0.015	16.794	0.00	0.00	0.00
		1.6·PP+1.6·CM	0.000	0.023	23.798	0.00	0.00	0.00
		PP+CM+1.6·Q	0.000	0.042	102.874	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q	0.000	0.050	109.878	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q	0.000	0.042	104.794	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q	0.000	0.051	111.798	0.00	0.00	0.00
		PP+CM+1.6·V	0.000	-4.295	14.874	0.00	0.00	0.00
		1.6·PP+CM+1.6·V	0.000	-4.287	21.878	0.00	0.00	0.00
		PP+1.6·CM+1.6·V	0.000	-4.295	16.794	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V	0.000	-4.287	23.798	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V	0.000	-4.276	76.474	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V	0.000	-4.268	83.478	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V	0.000	-4.276	78.394	0.00	0.00	0.00

Reacciones en los nudos, por combinación								
Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
		1.6·PP+1.6·CM+1.12·Q+1.6·V	0.000	-4.267	85.398	0.00	0.00	0.00
		PP+CM+1.6·Q+0.96·V	0.000	-2.544	102.874	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V	0.000	-2.536	109.878	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V	0.000	-2.543	104.794	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V	0.000	-2.535	111.798	0.00	0.00	0.00
		PP+CM+1.6·N	0.000	0.079	33.699	0.00	0.00	0.00
		1.6·PP+CM+1.6·N	0.000	0.087	40.703	0.00	0.00	0.00
		PP+1.6·CM+1.6·N	0.000	0.079	35.619	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·N	0.000	0.087	42.623	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·N	0.000	0.098	95.299	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·N	0.000	0.106	102.303	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·N	0.000	0.098	97.219	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·N	0.000	0.107	104.223	0.00	0.00	0.00
		PP+CM+0.96·V+1.6·N	0.000	-2.507	33.699	0.00	0.00	0.00
		1.6·PP+CM+0.96·V+1.6·N	0.000	-2.499	40.703	0.00	0.00	0.00
		PP+1.6·CM+0.96·V+1.6·N	0.000	-2.507	35.619	0.00	0.00	0.00
		1.6·PP+1.6·CM+0.96·V+1.6·N	0.000	-2.499	42.623	0.00	0.00	0.00
		PP+CM+1.12·Q+0.96·V+1.6·N	0.000	-2.488	95.299	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+0.96·V+1.6·N	0.000	-2.480	102.303	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+0.96·V+1.6·N	0.000	-2.487	97.219	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+0.96·V+1.6·N	0.000	-2.479	104.223	0.00	0.00	0.00
		PP+CM+1.6·Q+0.8·N	0.000	0.074	112.286	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.8·N	0.000	0.082	119.291	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.8·N	0.000	0.075	114.206	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.8·N	0.000	0.083	121.211	0.00	0.00	0.00
		PP+CM+1.6·V+0.8·N	0.000	-4.263	24.286	0.00	0.00	0.00
		1.6·PP+CM+1.6·V+0.8·N	0.000	-4.255	31.291	0.00	0.00	0.00
		PP+1.6·CM+1.6·V+0.8·N	0.000	-4.263	26.206	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·V+0.8·N	0.000	-4.255	33.211	0.00	0.00	0.00
		PP+CM+1.12·Q+1.6·V+0.8·N	0.000	-4.244	85.886	0.00	0.00	0.00
		1.6·PP+CM+1.12·Q+1.6·V+0.8·N	0.000	-4.236	92.891	0.00	0.00	0.00
		PP+1.6·CM+1.12·Q+1.6·V+0.8·N	0.000	-4.243	87.806	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.12·Q+1.6·V+0.8·N	0.000	-4.235	94.811	0.00	0.00	0.00
		PP+CM+1.6·Q+0.96·V+0.8·N	0.000	-2.512	112.286	0.00	0.00	0.00
		1.6·PP+CM+1.6·Q+0.96·V+0.8·N	0.000	-2.503	119.291	0.00	0.00	0.00
		PP+1.6·CM+1.6·Q+0.96·V+0.8·N	0.000	-2.511	114.206	0.00	0.00	0.00
		1.6·PP+1.6·CM+1.6·Q+0.96·V+0.8·N	0.000	-2.503	121.211	0.00	0.00	0.00
	Tensiones sobre el terreno	PP+CM	0.000	0.014	14.874	0.00	0.00	0.00
		PP+CM+Q	0.000	0.032	69.874	0.00	0.00	0.00
		PP+CM+V	0.000	-2.679	14.874	0.00	0.00	0.00
		PP+CM+Q+V	0.000	-2.662	69.874	0.00	0.00	0.00
		PP+CM+N	0.000	0.054	26.640	0.00	0.00	0.00
		PP+CM+Q+N	0.000	0.072	81.640	0.00	0.00	0.00
		PP+CM+V+N	0.000	-2.639	26.640	0.00	0.00	0.00
		PP+CM+Q+V+N	0.000	-2.622	81.640	0.00	0.00	0.00

Nota: Las combinaciones de hormigón indicadas son las mismas que se utilizan para comprobar el estado límite de equilibrio en la cimentación.

2.3.1.2.3.- Envolventes

Envolventes de las reacciones en nudos								
Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
N1	Hormigón en cimentaciones	Valor mínimo de la envolvente	0.217	-5.107	14.914	0.00	0.00	0.00
		Valor máximo de la envolvente	7.421	-0.015	121.274	0.00	0.00	0.00
	Tensiones sobre el terreno	Valor mínimo de la envolvente	0.217	-3.217	14.914	0.00	0.00	0.00
		Valor máximo de la envolvente	5.013	-0.015	81.678	0.00	0.00	0.00
N2	Hormigón en cimentaciones	Valor mínimo de la envolvente	-7.421	-5.106	14.873	0.00	0.00	0.00
		Valor máximo de la envolvente	-0.217	-0.014	121.208	0.00	0.00	0.00
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-5.013	-3.217	14.873	0.00	0.00	0.00
		Valor máximo de la envolvente	-0.217	-0.014	81.637	0.00	0.00	0.00
N3	Hormigón en cimentaciones	Valor mínimo de la envolvente	0.000	-4.361	14.930	0.00	0.00	0.00
		Valor máximo de la envolvente	0.000	0.108	121.301	0.00	0.00	0.00
	Tensiones sobre el terreno	Valor mínimo de la envolvente	0.000	-2.720	14.930	0.00	0.00	0.00
		Valor máximo de la envolvente	0.000	0.073	81.696	0.00	0.00	0.00
N4	Hormigón en cimentaciones	Valor mínimo de la envolvente	0.000	-4.295	14.874	0.00	0.00	0.00
		Valor máximo de la envolvente	0.000	0.107	121.211	0.00	0.00	0.00
	Tensiones sobre el terreno	Valor mínimo de la envolvente	0.000	-2.679	14.874	0.00	0.00	0.00
		Valor máximo de la envolvente	0.000	0.072	81.640	0.00	0.00	0.00

Nota: Las combinaciones de hormigón indicadas son las mismas que se utilizan para comprobar el estado límite de equilibrio en la cimentación.

2.3.2. Barras

2.3.2.1.- Esfuerzos

Referencias:

N: Esfuerzo axial (kN)

Vy: Esfuerzo cortante según el eje local Y de la barra. (kN)

Vz: Esfuerzo cortante según el eje local Z de la barra. (kN)

Mt: Momento torsor (kN·m)

My: Momento flector en el plano 'XZ' (giro de la sección respecto al eje local 'Y' de la barra). (kN·m)

Mz: Momento flector en el plano 'XY' (giro de la sección respecto al eje local 'Z' de la barra). (kN·m)

2.3.2.1.1.- Hipótesis

Esfuerzos en barras, por hipótesis								
Barra	Hipótesis	Esfuerzo	Posiciones en la barra					
			0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m
N3/N5	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-11.674	-11.496	-11.319	-11.142	-10.965	-10.788
		Mt	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.03	4.02	5.99	7.92	9.83
		Mz	0.00	0.00	0.00	0.01	0.01	0.01
	CM	N	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-3.257	-3.201	-3.145	-3.089	-3.033	-2.977
		Mt	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.57	1.12	1.67	2.20	2.73
		Mz	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis									
Barra	Hipótesis	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	-55.000	-54.037	-53.075	-52.112	-51.150	-50.187	-49.225
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	9.54	18.91	28.12	37.15	46.02	54.72
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	2.735	2.702	2.618	2.523	2.427	2.332	2.237
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.48	-0.94	-1.39	-1.83	-2.24	-2.64
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-11.766	-11.652	-11.538	-11.425	-11.311	-11.197	-11.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.05	4.08	6.09	8.08	10.05	12.00
		Mz	0.00	0.01	0.01	0.02	0.03	0.04	0.04

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N5/N7	Peso propio	N	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-10.399	-10.193	-9.987	-9.781	-9.575	-9.369	-9.163	-8.957	-8.751
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	11.71	13.81	15.86	17.87	19.84	21.76	23.65	25.49	27.29
		Mz	0.02	0.00	-0.01	-0.02	-0.04	-0.05	-0.06	-0.07	-0.09
	CM	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-2.916	-2.851	-2.786	-2.721	-2.656	-2.591	-2.526	-2.461	-2.395
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	3.24	3.83	4.40	4.96	5.51	6.04	6.56	7.07	7.56
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
	Q	N	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
		Vy	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
		Vz	-49.217	-48.098	-46.980	-45.861	-44.743	-43.624	-42.505	-41.387	-40.268
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	54.72	64.62	74.28	83.72	92.94	101.92	110.68	119.21	127.52
		Mz	0.02	0.00	-0.02	-0.04	-0.07	-0.09	-0.11	-0.13	-0.15
	V	N	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211
		Vy	-1.226	-1.226	-1.325	-1.436	-1.547	-1.657	-1.675	-1.675	-1.675
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		Mz	-2.47	-2.22	-1.96	-1.68	-1.38	-1.05	-0.71	-0.37	-0.03
	N	N	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122
		Vy	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
		Vz	-10.204	-10.072	-9.940	-9.808	-9.675	-9.543	-9.411	-9.279	-9.147

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	11.99	14.05	16.09	18.09	20.08	22.03	23.96	25.86	27.73
		Mz	0.05	0.02	-0.02	-0.05	-0.09	-0.12	-0.16	-0.19	-0.23

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N7/N9	Peso propio	N	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vy	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120
		Vz	-8.484	-8.278	-8.072	-7.866	-7.660	-7.454	-7.248	-7.043	-6.837
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.29	29.00	30.66	32.28	33.86	35.40	36.89	38.35	39.76
		Mz	-0.09	-0.06	-0.04	-0.02	0.01	0.03	0.06	0.08	0.11
	CM	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-2.395	-2.330	-2.265	-2.200	-2.135	-2.070	-2.004	-1.939	-1.874
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	7.56	8.04	8.51	8.97	9.41	9.83	10.25	10.65	11.04
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
	Q	N	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vy	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230
		Vz	-40.270	-39.151	-38.033	-36.914	-35.796	-34.677	-33.559	-32.440	-31.321
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	127.52	135.60	143.45	151.07	158.46	165.63	172.57	179.28	185.76
		Mz	-0.15	-0.10	-0.06	-0.01	0.04	0.08	0.13	0.18	0.22
	V	N	-5.243	-5.243	-5.243	-5.243	-5.243	-5.243	-5.243	-5.243	-5.243
		Vy	0.308	0.308	0.209	0.098	-0.013	-0.123	-0.141	-0.141	-0.141
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	0.03	-0.04	-0.09	-0.12	-0.13	-0.12	-0.09	-0.06	-0.03
	N	N	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
		Vy	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293
		Vz	-8.269	-8.137	-8.005	-7.873	-7.741	-7.608	-7.476	-7.344	-7.212
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	27.73	29.40	31.04	32.66	34.24	35.81	37.34	38.85	40.33
		Mz	-0.23	-0.17	-0.11	-0.05	0.01	0.07	0.13	0.19	0.25

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N9/N11	Peso propio	N	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
		Vy	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
		Vz	-6.569	-6.364	-6.158	-5.952	-5.746	-5.540	-5.334	-5.128	-4.922
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	39.76	41.07	42.35	43.58	44.77	45.91	47.02	48.08	49.11
		Mz	0.11	0.08	0.05	0.02	-0.01	-0.03	-0.06	-0.09	-0.12
	CM	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy									
		Vz									
		Mt									
		My									
		Mz									

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-1.875	-1.810	-1.745	-1.680	-1.615	-1.550	-1.485	-1.420	-1.354
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	11.04	11.41	11.77	12.12	12.46	12.78	13.09	13.38	13.66
		Mz	0.01	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.01	-0.02
	Q	N	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		Vy	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
		Vz	-31.323	-30.205	-29.086	-27.967	-26.849	-25.730	-24.612	-23.493	-22.375
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	185.77	192.02	198.05	203.86	209.43	214.78	219.90	224.79	229.45
		Mz	0.22	0.16	0.10	0.04	-0.03	-0.09	-0.15	-0.21	-0.28
	V	N	-6.789	-6.789	-6.789	-6.789	-6.789	-6.789	-6.789	-6.789	-6.789
		Vy	0.305	0.305	0.206	0.095	-0.016	-0.126	-0.144	-0.144	-0.144
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		Mz	0.00	-0.06	-0.11	-0.14	-0.15	-0.13	-0.11	-0.08	-0.05
	N	N	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
		Vy	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308
		Vz	-6.335	-6.202	-6.070	-5.938	-5.806	-5.674	-5.541	-5.409	-5.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	40.33	41.60	42.85	44.07	45.26	46.43	47.57	48.69	49.77
		Mz	0.25	0.18	0.12	0.06	0.00	-0.07	-0.13	-0.19	-0.26

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N11/N13	Peso propio	N	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vy	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151
		Vz	-4.655	-4.449	-4.243	-4.037	-3.831	-3.625	-3.419	-3.213	-3.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.11	50.03	50.92	51.76	52.56	53.32	54.03	54.71	55.34
		Mz	-0.12	-0.09	-0.06	-0.03	0.00	0.03	0.07	0.10	0.13
	CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	-1.356	-1.285	-1.213	-1.142	-1.071	-1.000	-0.929	-0.858	-0.786
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.66	13.93	14.19	14.43	14.65	14.86	15.06	15.24	15.41
		Mz	-0.02	-0.01	-0.01	0.00	0.00	0.01	0.01	0.01	0.02
	Q	N	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074
		Vy	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361
		Vz	-22.376	-21.258	-20.139	-19.021	-17.902	-16.783	-15.665	-14.546	-13.428
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	229.46	233.89	238.10	242.09	245.84	249.37	252.67	255.74	258.58
		Mz	-0.28	-0.20	-0.13	-0.06	0.02	0.09	0.16	0.24	0.31
	V	N	-7.802	-7.802	-7.802	-7.802	-7.802	-7.802	-7.802	-7.802	-7.802
		Vy	0.280	0.280	0.181	0.070	-0.041	-0.151	-0.169	-0.169	-0.169
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.02	-0.08	-0.13	-0.15	-0.16	-0.14	-0.10	-0.07	-0.04
	N	N	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
		Vy	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321
		Vz	-4.400	-4.268	-4.136	-4.003	-3.871	-3.739	-3.607	-3.475	-3.342
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.77	50.66	51.51	52.34	53.14	53.91	54.66	55.38	56.07
		Mz	-0.26	-0.19	-0.13	-0.06	0.00	0.07	0.13	0.20	0.27

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N13/N15	Peso propio	N	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
		Vy	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
		Vz	-2.740	-2.534	-2.328	-2.122	-1.916	-1.710	-1.505	-1.299	-1.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	55.34	55.88	56.37	56.82	57.23	57.60	57.93	58.22	58.46
		Mz	0.13	0.09	0.06	0.03	0.00	-0.03	-0.07	-0.10	-0.13
	CM	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-0.788	-0.723	-0.658	-0.593	-0.528	-0.463	-0.398	-0.332	-0.267
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.41	15.56	15.70	15.83	15.94	16.04	16.13	16.20	16.27
		Mz	0.02	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.01	-0.02
	Q	N	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
		Vy	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
		Vz	-13.429	-12.311	-11.192	-10.074	-8.955	-7.837	-6.718	-5.599	-4.481
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	258.58	261.20	263.59	265.75	267.69	269.40	270.88	272.13	273.15
		Mz	0.31	0.23	0.15	0.07	-0.01	-0.09	-0.17	-0.25	-0.33
	V	N	-8.282	-8.282	-8.282	-8.282	-8.282	-8.282	-8.282	-8.282	-8.282
		Vy	0.278	0.278	0.179	0.069	-0.042	-0.153	-0.171	-0.171	-0.171
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.02	-0.08	-0.13	-0.15	-0.16	-0.14	-0.10	-0.07	-0.03
	N	N	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
		Vy	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
		Vz	-2.465	-2.333	-2.201	-2.069	-1.936	-1.804	-1.672	-1.540	-1.408
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	56.07	56.56	57.02	57.45	57.86	58.24	58.60	58.92	59.22
		Mz	0.26	0.20	0.13	0.07	0.00	-0.07	-0.13	-0.20	-0.27

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N15/N17	Peso propio	N	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vz	-0.826	-0.620	-0.414	-0.208	-0.002	0.204	0.410	0.616	0.822
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	58.46	58.61	58.71	58.77	58.80	58.77	58.71	58.61	58.46
		Mz	-0.13	-0.10	-0.06	-0.03	0.00	0.03	0.07	0.10	0.13
	CM	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	-0.269	-0.198	-0.127	-0.056	0.016	0.087	0.158	0.229	0.300
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.27	16.31	16.35	16.36	16.37	16.36	16.33	16.29	16.24
		Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
	Q	N	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129
		Vy	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405
		Vz	-4.482	-3.364	-2.245	-1.127	-0.008	1.110	2.229	3.347	4.466
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	273.16	273.95	274.52	274.87	274.98	274.87	274.53	273.96	273.17
		Mz	-0.33	-0.25	-0.16	-0.08	0.00	0.08	0.17	0.25	0.33
	V	N	-8.218	-8.218	-8.218	-8.218	-8.218	-8.218	-8.218	-8.218	-8.218
		Vy	0.268	0.268	0.169	0.059	-0.052	-0.163	-0.181	-0.181	-0.181
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	-0.03	-0.09	-0.13	-0.16	-0.16	-0.14	-0.10	-0.06	-0.03
	N	N	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
		Vy	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330
		Vz	-0.531	-0.398	-0.266	-0.134	-0.002	0.130	0.263	0.395	0.527
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	59.22	59.32	59.39	59.43	59.44	59.43	59.39	59.32	59.23
		Mz	-0.27	-0.20	-0.13	-0.07	0.00	0.07	0.14	0.20	0.27

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N17/N19	Peso propio	N	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116
		Vy	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
		Vz	1.089	1.295	1.501	1.707	1.913	2.119	2.325	2.531	2.737
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	58.46	58.22	57.93	57.61	57.24	56.83	56.38	55.88	55.35
		Mz	0.13	0.10	0.07	0.03	0.00	-0.03	-0.06	-0.09	-0.13
	CM	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	0.299	0.364	0.429	0.494	0.559	0.624	0.689	0.754	0.819
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.24	16.17	16.09	16.00	15.89	15.77	15.64	15.49	15.33
		Mz	0.02	0.01	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.02
	Q	N	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
		Vy	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
		Vz	4.464	5.583	6.701	7.820	8.939	10.057	11.176	12.294	13.413

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	273.17	272.15	270.90	269.42	267.72	265.79	263.63	261.24	258.63
		Mz	0.33	0.25	0.17	0.09	0.01	-0.07	-0.15	-0.23	-0.31
	V	N	-7.618	-7.618	-7.618	-7.618	-7.618	-7.618	-7.618	-7.618	-7.618
		Vy	0.258	0.258	0.159	0.048	-0.062	-0.173	-0.191	-0.191	-0.191
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mz	-0.04	-0.09	-0.13	-0.16	-0.15	-0.13	-0.09	-0.05	-0.01
	N	N	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344
		Vy	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
		Vz	1.404	1.536	1.669	1.801	1.933	2.065	2.197	2.330	2.462
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	59.23	58.93	58.60	58.25	57.87	57.46	57.03	56.57	56.08
		Mz	0.27	0.20	0.14	0.07	0.00	-0.06	-0.13	-0.20	-0.26

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N19/N21	Peso propio	N	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
		Vy	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151
		Vz	3.004	3.210	3.416	3.622	3.828	4.034	4.239	4.445	4.651
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	55.35	54.72	54.04	53.33	52.57	51.77	50.93	50.05	49.12
		Mz	-0.13	-0.10	-0.06	-0.03	0.00	0.03	0.06	0.09	0.12
	CM	N	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	0.818	0.883	0.948	1.013	1.078	1.144	1.209	1.274	1.339
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.33	15.16	14.97	14.77	14.56	14.33	14.09	13.84	13.58
		Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.01	0.02
	Q	N	0.183	0.183	0.183	0.183	0.183	0.183	0.183	0.183	0.183
		Vy	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361
		Vz	13.411	14.530	15.648	16.767	17.885	19.004	20.123	21.241	22.360
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	258.62	255.78	252.71	249.42	245.89	242.14	238.16	233.96	229.52
		Mz	-0.31	-0.24	-0.16	-0.09	-0.02	0.06	0.13	0.20	0.28
	V	N	-6.474	-6.474	-6.474	-6.474	-6.474	-6.474	-6.474	-6.474	-6.474
		Vy	0.258	0.258	0.159	0.048	-0.063	-0.173	-0.191	-0.191	-0.191
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		Mz	-0.04	-0.09	-0.13	-0.16	-0.15	-0.13	-0.09	-0.05	-0.01
	N	N	0.396	0.396	0.396	0.396	0.396	0.396	0.396	0.396	0.396
		Vy	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321
		Vz	3.339	3.471	3.603	3.735	3.868	4.000	4.132	4.264	4.396
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	56.08	55.39	54.67	53.92	53.15	52.35	51.52	50.67	49.79

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		Mz	-0.26	-0.20	-0.13	-0.07	0.00	0.06	0.13	0.19	0.26

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N21/N23	Peso propio	N	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vy	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
		Vz	4.918	5.124	5.330	5.536	5.742	5.948	6.154	6.360	6.566
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.12	48.10	47.04	45.93	44.78	43.59	42.36	41.09	39.78
		Mz	0.12	0.09	0.06	0.03	0.01	-0.02	-0.05	-0.08	-0.11
	CM	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	1.338	1.403	1.468	1.533	1.598	1.663	1.728	1.793	1.858
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	13.58	13.30	13.01	12.70	12.38	12.05	11.71	11.35	10.98
		Mz	0.02	0.01	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.01
	Q	N	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172
		Vy	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
		Vz	22.358	23.477	24.595	25.714	26.832	27.951	29.069	30.188	31.307
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	229.52	224.86	219.97	214.85	209.51	203.94	198.14	192.12	185.86
		Mz	0.28	0.21	0.15	0.09	0.03	-0.04	-0.10	-0.16	-0.22
	V	N	-4.798	-4.798	-4.798	-4.798	-4.798	-4.798	-4.798	-4.798	-4.798
		Vy	0.229	0.229	0.131	0.020	-0.091	-0.201	-0.219	-0.219	-0.219
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	-0.05	-0.10	-0.13	-0.15	-0.14	-0.11	-0.07	-0.02	0.02
	N	N	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Vy	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308
		Vz	5.274	5.406	5.538	5.670	5.802	5.935	6.067	6.199	6.331
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.79	48.70	47.59	46.45	45.28	44.09	42.87	41.62	40.35
		Mz	0.26	0.19	0.13	0.07	0.01	-0.06	-0.12	-0.18	-0.24

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N23/N25	Peso propio	N	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173
		Vy	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120
		Vz	6.833	7.039	7.245	7.451	7.657	7.863	8.069	8.275	8.481
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	39.78	38.37	36.91	35.42	33.88	32.30	30.68	29.02	27.32
		Mz	-0.11	-0.08	-0.06	-0.03	-0.01	0.02	0.04	0.06	0.09
	CM	N	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	1.858	1.923	1.988	2.053	2.118	2.183	2.248	2.313	2.379

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	10.98	10.59	10.19	9.78	9.36	8.92	8.47	8.01	7.53
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
	Q	N	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239
		Vy	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230
		Vz	31.305	32.424	33.542	34.661	35.779	36.898	38.016	39.135	40.253
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	185.86	179.38	172.67	165.73	158.57	151.18	143.56	135.72	127.64
		Mz	-0.22	-0.18	-0.13	-0.08	-0.03	0.01	0.06	0.11	0.15
	V	N	-2.590	-2.590	-2.590	-2.590	-2.590	-2.590	-2.590	-2.590	-2.590
		Vy	0.229	0.229	0.130	0.019	-0.091	-0.202	-0.220	-0.220	-0.220
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		Mz	-0.03	-0.07	-0.11	-0.13	-0.12	-0.09	-0.04	0.00	0.05
	N	N	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497
		Vy	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293
		Vz	7.208	7.340	7.473	7.605	7.737	7.869	8.001	8.134	8.266
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	40.35	38.87	37.36	35.83	34.27	32.68	31.07	29.43	27.76
		Mz	-0.25	-0.19	-0.13	-0.07	-0.01	0.05	0.11	0.17	0.23

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N25/N27	Peso propio	N	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	8.748	8.954	9.160	9.365	9.571	9.777	9.983	10.189	10.395
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	27.32	25.52	23.68	21.79	19.87	17.90	15.89	13.84	11.74
		Mz	0.09	0.08	0.06	0.05	0.04	0.02	0.01	0.00	-0.02
	CM	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	2.379	2.444	2.509	2.574	2.639	2.704	2.770	2.835	2.900
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	7.53	7.04	6.54	6.02	5.49	4.94	4.39	3.82	3.24
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	Q	N	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185
		Vy	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106
		Vz	40.252	41.370	42.489	43.608	44.726	45.845	46.963	48.082	49.200
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	127.64	119.34	110.81	102.05	93.07	83.86	74.42	64.76	54.87
		Mz	0.15	0.13	0.11	0.09	0.07	0.04	0.02	0.00	-0.02
	V	N	1.246	1.246	1.246	1.246	1.246	1.246	1.246	1.246	1.246
		Vy	1.991	1.991	1.892	1.781	1.671	1.560	1.542	1.542	1.542
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
	N	Mz	-0.03	-0.43	-0.83	-1.20	-1.55	-1.88	-2.19	-2.51	-2.82
		N	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473
		Vy	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173
		Vz	9.143	9.275	9.407	9.540	9.672	9.804	9.936	10.068	10.201
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	27.76	25.88	23.98	22.06	20.10	18.12	16.12	14.08	12.02
		Mz	0.23	0.20	0.16	0.13	0.09	0.05	0.02	-0.02	-0.05

Esfuerzos en barras, por hipótesis									
Barra	Hipótesis	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
N27/N1	Peso propio	N	0.202	0.202	0.202	0.202	0.202	0.202	0.202
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	10.607	10.785	10.962	11.140	11.318	11.496	11.673
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.73	9.85	7.95	6.01	4.03	2.03	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	CM	N	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	2.904	2.960	3.016	3.072	3.129	3.185	3.241
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.24	2.72	2.20	1.66	1.12	0.56	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.258	0.258	0.258	0.258	0.258	0.258	0.258
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	49.209	50.174	51.139	52.104	53.070	54.035	55.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	54.87	46.14	37.25	28.20	18.97	9.57	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	V	N	3.943	3.943	3.943	3.943	3.943	3.943	3.943
		Vy	-2.696	-2.696	-2.764	-2.860	-2.955	-3.051	-3.146
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-3.03	-2.55	-2.07	-1.58	-1.07	-0.54	0.00
	N	N	0.596	0.596	0.596	0.596	0.596	0.596	0.596
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	11.080	11.194	11.308	11.422	11.536	11.650	11.764
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.03	10.07	8.10	6.10	4.09	2.05	0.00
		Mz	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00

Esfuerzos en barras, por hipótesis									
Barra	Hipótesis	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
N4/N6	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-11.674	-11.496	-11.319	-11.142	-10.965	-10.788	-10.610

Esfuerzos en barras, por hipótesis									
Barra	Hipótesis	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.03	4.02	5.99	7.92	9.83	11.70
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-3.200	-3.144	-3.088	-3.032	-2.976	-2.920	-2.864
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.56	1.10	1.64	2.16	2.68	3.18
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	-55.000	-54.037	-53.075	-52.112	-51.150	-50.187	-49.225
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	9.54	18.91	28.12	37.15	46.02	54.72
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	2.694	2.694	2.626	2.530	2.435	2.340	2.245
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.47	-0.94	-1.39	-1.82	-2.24	-2.64
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-11.766	-11.652	-11.538	-11.425	-11.311	-11.197	-11.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.05	4.08	6.09	8.08	10.05	12.00
		Mz	0.00	0.01	0.01	0.02	0.03	0.04	0.04

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N6/N8	Peso propio	N	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-10.399	-10.193	-9.987	-9.781	-9.575	-9.369	-9.163	-8.957	-8.751
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	11.71	13.81	15.86	17.87	19.84	21.76	23.65	25.49	27.29
		Mz	0.02	0.00	-0.01	-0.02	-0.04	-0.05	-0.06	-0.07	-0.09
	CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-2.868	-2.803	-2.738	-2.672	-2.607	-2.542	-2.477	-2.412	-2.347
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.18	3.76	4.32	4.87	5.41	5.93	6.45	6.94	7.43
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
	Q	N	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073
		Vy	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
		Vz	-49.217	-48.098	-46.980	-45.861	-44.743	-43.624	-42.505	-41.387	-40.268
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	54.72	64.62	74.28	83.72	92.94	101.92	110.68	119.21	127.52

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
	V	Mz	0.02	0.00	-0.02	-0.04	-0.07	-0.09	-0.11	-0.13	-0.15
		N	2.211	2.211	2.211	2.211	2.211	2.211	2.211	2.211	2.211
		Vy	-1.227	-1.227	-1.326	-1.436	-1.547	-1.657	-1.676	-1.676	-1.676
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		Mz	-2.47	-2.22	-1.96	-1.68	-1.38	-1.05	-0.71	-0.37	-0.03
	N	N	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122
		Vy	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
		Vz	-10.204	-10.072	-9.940	-9.808	-9.675	-9.543	-9.411	-9.279	-9.147
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	11.99	14.05	16.09	18.09	20.08	22.03	23.96	25.86	27.73
		Mz	0.05	0.02	-0.02	-0.05	-0.09	-0.12	-0.16	-0.19	-0.23

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N8/N10	Peso propio	N	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vy	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120
		Vz	-8.484	-8.278	-8.072	-7.866	-7.660	-7.454	-7.248	-7.043	-6.837
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.29	29.00	30.66	32.28	33.86	35.40	36.89	38.35	39.76
		Mz	-0.09	-0.06	-0.04	-0.02	0.01	0.03	0.06	0.08	0.11
	CM	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-2.348	-2.283	-2.218	-2.152	-2.087	-2.022	-1.957	-1.892	-1.827
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	7.43	7.90	8.36	8.80	9.23	9.65	10.05	10.45	10.82
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
	Q	N	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vy	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230
		Vz	-40.270	-39.151	-38.033	-36.914	-35.796	-34.677	-33.559	-32.440	-31.321
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	127.52	135.60	143.45	151.07	158.46	165.63	172.57	179.28	185.76
		Mz	-0.15	-0.10	-0.06	-0.01	0.04	0.08	0.13	0.18	0.22
	V	N	5.243	5.243	5.243	5.243	5.243	5.243	5.243	5.243	5.243
		Vy	0.308	0.308	0.209	0.098	-0.013	-0.123	-0.141	-0.141	-0.141
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	0.03	-0.04	-0.09	-0.12	-0.13	-0.12	-0.09	-0.06	-0.03
	N	N	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
		Vy	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293
		Vz	-8.269	-8.137	-8.005	-7.873	-7.741	-7.608	-7.476	-7.344	-7.212
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	27.73	29.40	31.04	32.66	34.24	35.81	37.34	38.85	40.33
		Mz	-0.23	-0.17	-0.11	-0.05	0.01	0.07	0.13	0.19	0.25

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N10/N12	Peso propio	N	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vy	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
		Vz	-6.569	-6.364	-6.158	-5.952	-5.746	-5.540	-5.334	-5.128	-4.922
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	39.76	41.07	42.35	43.58	44.77	45.91	47.02	48.08	49.11
		Mz	0.11	0.08	0.05	0.02	-0.01	-0.03	-0.06	-0.09	-0.12
	CM	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-1.826	-1.761	-1.696	-1.631	-1.566	-1.501	-1.436	-1.371	-1.306
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.82	11.19	11.54	11.88	12.20	12.52	12.81	13.10	13.37
		Mz	0.01	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.01	-0.02
	Q	N	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085
		Vy	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
		Vz	-31.323	-30.205	-29.086	-27.967	-26.849	-25.730	-24.612	-23.493	-22.375
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	185.77	192.02	198.05	203.86	209.43	214.78	219.90	224.79	229.45
		Mz	0.22	0.16	0.10	0.04	-0.03	-0.09	-0.15	-0.21	-0.28
	V	N	6.789	6.789	6.789	6.789	6.789	6.789	6.789	6.789	6.789
		Vy	0.305	0.305	0.206	0.095	-0.016	-0.126	-0.144	-0.144	-0.144
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		Mz	0.00	-0.06	-0.11	-0.14	-0.15	-0.13	-0.11	-0.08	-0.05
	N	N	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156
		Vy	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308
		Vz	-6.335	-6.202	-6.070	-5.938	-5.806	-5.674	-5.541	-5.409	-5.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	40.33	41.60	42.85	44.07	45.26	46.43	47.57	48.69	49.77
		Mz	0.25	0.18	0.12	0.06	0.00	-0.07	-0.13	-0.19	-0.26

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N12/N14	Peso propio	N	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065
		Vy	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151
		Vz	-4.655	-4.449	-4.243	-4.037	-3.831	-3.625	-3.419	-3.213	-3.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.11	50.03	50.92	51.76	52.56	53.32	54.03	54.71	55.34
		Mz	-0.12	-0.09	-0.06	-0.03	0.00	0.03	0.07	0.10	0.13
	CM	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-1.305	-1.240	-1.175	-1.109	-1.044	-0.979	-0.914	-0.849	-0.784
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.37	13.63	13.88	14.11	14.33	14.53	14.73	14.91	15.07
		Mz	-0.02	-0.01	-0.01	0.00	0.00	0.01	0.01	0.01	0.02
	Q	N	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vy	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vz	-22.376	-21.258	-20.139	-19.021	-17.902	-16.783	-15.665	-14.546	-13.428
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	229.46	233.89	238.10	242.09	245.84	249.37	252.67	255.74	258.58
		Mz	-0.28	-0.20	-0.13	-0.06	0.02	0.09	0.16	0.24	0.31
	V	N	7.802	7.802	7.802	7.802	7.802	7.802	7.802	7.802	7.802
		Vy	0.280	0.280	0.181	0.070	-0.041	-0.151	-0.169	-0.169	-0.169
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.02	-0.08	-0.13	-0.15	-0.16	-0.14	-0.10	-0.07	-0.04
	N	N	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198
		Vy	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321
		Vz	-4.400	-4.268	-4.136	-4.003	-3.871	-3.739	-3.607	-3.475	-3.342
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.77	50.66	51.51	52.34	53.14	53.91	54.66	55.38	56.07
		Mz	-0.26	-0.19	-0.13	-0.06	0.00	0.07	0.13	0.20	0.27

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N14/N16	Peso propio	N	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
		Vy	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
		Vz	-2.740	-2.534	-2.328	-2.122	-1.916	-1.710	-1.505	-1.299	-1.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	55.34	55.88	56.37	56.82	57.23	57.60	57.93	58.22	58.46
		Mz	0.13	0.09	0.06	0.03	0.00	-0.03	-0.07	-0.10	-0.13
	CM	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-0.783	-0.718	-0.652	-0.587	-0.522	-0.457	-0.392	-0.327	-0.262
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.07	15.23	15.36	15.49	15.60	15.70	15.79	15.86	15.92
		Mz	0.02	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.01	-0.02
	Q	N	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114
		Vy	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
		Vz	-13.429	-12.311	-11.192	-10.074	-8.955	-7.837	-6.718	-5.599	-4.481
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	258.58	261.20	263.59	265.75	267.69	269.40	270.88	272.13	273.15
		Mz	0.31	0.23	0.15	0.07	-0.01	-0.09	-0.17	-0.25	-0.33
	V	N	8.282	8.282	8.282	8.282	8.282	8.282	8.282	8.282	8.282
		Vy	0.278	0.278	0.179	0.069	-0.042	-0.153	-0.171	-0.171	-0.171
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.02	-0.08	-0.13	-0.15	-0.16	-0.14	-0.10	-0.07	-0.03
	N	N	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250
		Vy	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
		Vz	-2.465	-2.333	-2.201	-2.069	-1.936	-1.804	-1.672	-1.540	-1.408
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		My	56.07	56.56	57.02	57.45	57.86	58.24	58.60	58.92	59.22
		Mz	0.26	0.20	0.13	0.07	0.00	-0.07	-0.13	-0.20	-0.27

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N16/N18	Peso propio	N	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101
		Vy	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vz	-0.826	-0.620	-0.414	-0.208	-0.002	0.204	0.410	0.616	0.822
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	58.46	58.61	58.71	58.77	58.80	58.77	58.71	58.61	58.46
		Mz	-0.13	-0.10	-0.06	-0.03	0.00	0.03	0.07	0.10	0.13
	CM	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	-0.260	-0.195	-0.130	-0.065	0.000	0.065	0.130	0.195	0.260
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.92	15.97	16.00	16.02	16.03	16.02	16.00	15.97	15.92
		Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
	Q	N	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129
		Vy	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405	-0.405
		Vz	-4.482	-3.364	-2.245	-1.127	-0.008	1.110	2.229	3.347	4.466
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	273.16	273.95	274.52	274.87	274.98	274.87	274.53	273.96	273.17
		Mz	-0.33	-0.25	-0.16	-0.08	0.00	0.08	0.17	0.25	0.33
	V	N	8.218	8.218	8.218	8.218	8.218	8.218	8.218	8.218	8.218
		Vy	0.268	0.268	0.169	0.059	-0.052	-0.163	-0.181	-0.181	-0.181
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	-0.03	-0.09	-0.13	-0.16	-0.16	-0.14	-0.10	-0.06	-0.03
	N	N	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297
		Vy	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330
		Vz	-0.531	-0.398	-0.266	-0.134	-0.002	0.130	0.263	0.395	0.527
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	59.22	59.32	59.39	59.43	59.44	59.43	59.39	59.32	59.23
		Mz	-0.27	-0.20	-0.13	-0.07	0.00	0.07	0.14	0.20	0.27

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N18/N20	Peso propio	N	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116
		Vy	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
		Vz	1.089	1.295	1.501	1.707	1.913	2.119	2.325	2.531	2.737
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	58.46	58.22	57.93	57.61	57.24	56.83	56.38	55.88	55.35
		Mz	0.13	0.10	0.07	0.03	0.00	-0.03	-0.06	-0.09	-0.13
	CM	N	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vz	0.262	0.327	0.392	0.457	0.522	0.587	0.652	0.717	0.782
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.92	15.86	15.79	15.70	15.60	15.49	15.36	15.23	15.07
		Mz	0.02	0.01	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.02
	Q	N	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143
		Vy	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
		Vz	4.464	5.583	6.701	7.820	8.939	10.057	11.176	12.294	13.413
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	273.17	272.15	270.90	269.42	267.72	265.79	263.63	261.24	258.63
		Mz	0.33	0.25	0.17	0.09	0.01	-0.07	-0.15	-0.23	-0.31
	V	N	7.618	7.618	7.618	7.618	7.618	7.618	7.618	7.618	7.618
		Vy	0.258	0.258	0.159	0.048	-0.062	-0.173	-0.191	-0.191	-0.191
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mz	-0.04	-0.09	-0.13	-0.16	-0.15	-0.13	-0.09	-0.05	-0.01
	N	N	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344
		Vy	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
		Vz	1.404	1.536	1.669	1.801	1.933	2.065	2.197	2.330	2.462
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	59.23	58.93	58.60	58.25	57.87	57.46	57.03	56.57	56.08
		Mz	0.27	0.20	0.14	0.07	0.00	-0.06	-0.13	-0.20	-0.26

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N20/N22	Peso propio	N	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136
		Vy	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151
		Vz	3.004	3.210	3.416	3.622	3.828	4.034	4.239	4.445	4.651
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	55.35	54.72	54.04	53.33	52.57	51.77	50.93	50.05	49.12
		Mz	-0.13	-0.10	-0.06	-0.03	0.00	0.03	0.06	0.09	0.12
	CM	N	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	0.783	0.848	0.913	0.979	1.044	1.109	1.174	1.239	1.304
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.07	14.91	14.73	14.54	14.33	14.11	13.88	13.63	13.37
		Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.01	0.02
	Q	N	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183
		Vy	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361
		Vz	13.411	14.530	15.648	16.767	17.885	19.004	20.123	21.241	22.360
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	258.62	255.78	252.71	249.42	245.89	242.14	238.16	233.96	229.52
		Mz	-0.31	-0.24	-0.16	-0.09	-0.02	0.06	0.13	0.20	0.28
	V	N	6.474	6.474	6.474	6.474	6.474	6.474	6.474	6.474	6.474
		Vy	0.258	0.258	0.159	0.048	-0.063	-0.173	-0.191	-0.191	-0.191
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		My	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		Mz	-0.04	-0.09	-0.13	-0.16	-0.15	-0.13	-0.09	-0.05	-0.01
	N	N	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396
		Vy	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321
		Vz	3.339	3.471	3.603	3.735	3.868	4.000	4.132	4.264	4.396
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	56.08	55.39	54.67	53.92	53.15	52.35	51.52	50.67	49.79
		Mz	-0.26	-0.20	-0.13	-0.07	0.00	0.06	0.13	0.19	0.26

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N22/N24	Peso propio	N	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146
		Vy	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
		Vz	4.918	5.124	5.330	5.536	5.742	5.948	6.154	6.360	6.566
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.12	48.10	47.04	45.93	44.78	43.59	42.36	41.09	39.78
		Mz	0.12	0.09	0.06	0.03	0.01	-0.02	-0.05	-0.08	-0.11
	CM	N	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	1.305	1.370	1.435	1.500	1.565	1.630	1.695	1.760	1.825
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.37	13.10	12.82	12.52	12.21	11.88	11.54	11.19	10.83
		Mz	0.02	0.01	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.01
	Q	N	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
		Vy	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
		Vz	22.358	23.477	24.595	25.714	26.832	27.951	29.069	30.188	31.307
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	229.52	224.86	219.97	214.85	209.51	203.94	198.14	192.12	185.86
		Mz	0.28	0.21	0.15	0.09	0.03	-0.04	-0.10	-0.16	-0.22
	V	N	4.798	4.798	4.798	4.798	4.798	4.798	4.798	4.798	4.798
		Vy	0.229	0.229	0.131	0.020	-0.091	-0.201	-0.219	-0.219	-0.219
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	-0.05	-0.10	-0.13	-0.15	-0.14	-0.11	-0.07	-0.02	0.02
	N	N	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438
		Vy	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308
		Vz	5.274	5.406	5.538	5.670	5.802	5.935	6.067	6.199	6.331
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.79	48.70	47.59	46.45	45.28	44.09	42.87	41.62	40.35
		Mz	0.26	0.19	0.13	0.07	0.01	-0.06	-0.12	-0.18	-0.24

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N24/N26	Peso propio	N	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173
		Vy	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vz	6.833	7.039	7.245	7.451	7.657	7.863	8.069	8.275	8.481
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	39.78	38.37	36.91	35.42	33.88	32.30	30.68	29.02	27.32
		Mz	-0.11	-0.08	-0.06	-0.03	-0.01	0.02	0.04	0.06	0.09
	CM	N	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	1.826	1.891	1.956	2.021	2.086	2.151	2.216	2.281	2.346
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.83	10.45	10.06	9.65	9.24	8.81	8.36	7.90	7.43
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
	Q	N	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239
		Vy	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230
		Vz	31.305	32.424	33.542	34.661	35.779	36.898	38.016	39.135	40.253
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	185.86	179.38	172.67	165.73	158.57	151.18	143.56	135.72	127.64
		Mz	-0.22	-0.18	-0.13	-0.08	-0.03	0.01	0.06	0.11	0.15
	V	N	2.590	2.590	2.590	2.590	2.590	2.590	2.590	2.590	2.590
		Vy	0.229	0.229	0.130	0.019	-0.091	-0.202	-0.220	-0.220	-0.220
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		Mz	-0.03	-0.07	-0.11	-0.13	-0.12	-0.09	-0.04	0.00	0.05
	N	N	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497
		Vy	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293
		Vz	7.208	7.340	7.473	7.605	7.737	7.869	8.001	8.134	8.266
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	40.35	38.87	37.36	35.83	34.27	32.68	31.07	29.43	27.76
		Mz	-0.25	-0.19	-0.13	-0.07	-0.01	0.05	0.11	0.17	0.23

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N26/N28	Peso propio	N	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	8.748	8.954	9.160	9.365	9.571	9.777	9.983	10.189	10.395
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	27.32	25.52	23.68	21.79	19.87	17.90	15.89	13.84	11.74
		Mz	0.09	0.08	0.06	0.05	0.04	0.02	0.01	0.00	-0.02
	CM	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	2.346	2.411	2.476	2.541	2.606	2.671	2.736	2.801	2.866
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.43	6.95	6.45	5.94	5.42	4.88	4.33	3.77	3.19
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185
		Vy	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106
		Vz	40.252	41.370	42.489	43.608	44.726	45.845	46.963	48.082	49.200
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		My	127.64	119.34	110.81	102.05	93.07	83.86	74.42	64.76	54.87
		Mz	0.15	0.13	0.11	0.09	0.07	0.04	0.02	0.00	-0.02
	V	N	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246
		Vy	1.991	1.991	1.892	1.781	1.671	1.560	1.542	1.542	1.542
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
		Mz	-0.03	-0.43	-0.83	-1.20	-1.55	-1.88	-2.19	-2.51	-2.82
	N	N	-0.473	-0.473	-0.473	-0.473	-0.473	-0.473	-0.473	-0.473	-0.473
		Vy	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173
		Vz	9.143	9.275	9.407	9.540	9.672	9.804	9.936	10.068	10.201
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	27.76	25.88	23.98	22.06	20.10	18.12	16.12	14.08	12.02
		Mz	0.23	0.20	0.16	0.13	0.09	0.05	0.02	-0.02	-0.05

Esfuerzos en barras, por hipótesis									
Barra	Hipótesis	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
N28/N2	Peso propio	N	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	10.607	10.785	10.962	11.140	11.318	11.496	11.673
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.73	9.85	7.95	6.01	4.03	2.03	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	CM	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	2.863	2.919	2.975	3.031	3.088	3.144	3.200
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.19	2.68	2.17	1.64	1.10	0.56	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.258	-0.258	-0.258	-0.258	-0.258	-0.258	-0.258
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	49.209	50.174	51.139	52.104	53.070	54.035	55.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	54.87	46.14	37.25	28.20	18.97	9.57	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	V	N	-3.943	-3.943	-3.943	-3.943	-3.943	-3.943	-3.943
		Vy	-2.696	-2.696	-2.764	-2.860	-2.955	-3.051	-3.146
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-3.03	-2.55	-2.07	-1.58	-1.07	-0.54	0.00
	N	N	-0.596	-0.596	-0.596	-0.596	-0.596	-0.596	-0.596
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	11.080	11.194	11.308	11.422	11.536	11.650	11.764
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.03	10.07	8.10	6.10	4.09	2.05	0.00
		Mz	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N7/N8	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
		Mz	-0.02	-0.02	-0.01	-0.01	0.00	0.01	0.01	0.02	0.02
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	0.26	0.37	0.52	0.56	0.52	0.37	0.26	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N9/N10	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.09	0.10	0.13	0.14	0.13	0.10	0.09	0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N11/N12	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.09	0.10	0.13	0.14	0.13	0.10	0.09	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	0.25	0.36	0.51	0.56	0.51	0.36	0.25	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N13/N14	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	0.25	0.36	0.51	0.56	0.51	0.36	0.25	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N15/N16	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	0.25	0.36	0.51	0.55	0.51	0.36	0.25	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N17/N18	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	0.25	0.36	0.51	0.55	0.51	0.36	0.25	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N19/N20	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	0.25	0.36	0.51	0.56	0.51	0.36	0.25	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N21/N22	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.09	0.10	0.13	0.14	0.13	0.10	0.09	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	0.25	0.36	0.51	0.56	0.51	0.36	0.25	-0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N23/N24	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.09	0.10	0.13	0.14	0.13	0.10	0.09	0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N25/N26	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	0.26	0.37	0.52	0.56	0.52	0.37	0.26	-0.03

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N7/N6	Peso propio	N	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.02	-0.01	-0.01	0.00	0.01	0.02	0.03	0.03	0.04
	N	N	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N7/N10	Peso propio	N	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
	N	N	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N11/N10	Peso propio	N	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
	N	Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		N	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N11/N14	Peso propio	N	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.058	-0.044	-0.029	-0.015	-0.001	0.014	0.028	0.042	0.057
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	V	N	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N15/N14	Peso propio	N	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	V	N	-0.196	-0.196	-0.196	-0.196	-0.196	-0.196	-0.196	-0.196	-0.196
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N15/N18	Peso propio	N	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
	V	Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		N	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N19/N18	Peso propio	N	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	V	N	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N19/N22	Peso propio	N	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.057	-0.042	-0.028	-0.014	0.001	0.015	0.029	0.044	0.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-1.355	-1.355	-1.355	-1.355	-1.355	-1.355	-1.355	-1.355	-1.355
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	N	N	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N23/N22	Peso propio	N	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	1.847	1.847	1.847	1.847	1.847	1.847	1.847	1.847	1.847
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
	N	N	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N23/N26	Peso propio	N	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-2.371	-2.371	-2.371	-2.371	-2.371	-2.371	-2.371	-2.371	-2.371
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
	N	N	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N27/N26	Peso propio	N	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	4.963	4.963	4.963	4.963	4.963	4.963	4.963	4.963	4.963
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.05	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
	N	N	0.248	0.248	0.248	0.248	0.248	0.248	0.248	0.248	0.248
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N25/N28	Peso propio	N	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04	-0.05
	N	N	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N25/N24	Peso propio	N	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	2.371	2.371	2.371	2.371	2.371	2.371	2.371	2.371	2.371
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
	N	N	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N21/N24	Peso propio	N	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-1.847	-1.847	-1.847	-1.847	-1.847	-1.847	-1.847	-1.847	-1.847
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
	N	N	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N21/N20	Peso propio	N	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vz	-0.058	-0.044	-0.029	-0.015	-0.001	0.014	0.028	0.042	0.057
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	V	N	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	N	N	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N17/N20	Peso propio	N	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	V	N	-0.830	-0.830	-0.830	-0.830	-0.830	-0.830	-0.830	-0.830	-0.830
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N17/N16	Peso propio	N	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	V	N	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N13/N16	Peso propio	N	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	V	N	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N13/N12	Peso propio	N	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.057	-0.042	-0.028	-0.014	0.001	0.015	0.029	0.044	0.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-0.719	-0.719	-0.719	-0.719	-0.719	-0.719	-0.719	-0.719	-0.719
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	N	N	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N9/N12	Peso propio	N	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380	-0.380
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	N	N	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407	-0.407
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N9/N8	Peso propio	N	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
	N	N	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N5/N8	Peso propio	N	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	4.060	4.060	4.060	4.060	4.060	4.060	4.060	4.060	4.060
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.04	-0.03	-0.03	-0.02	-0.01	0.00	0.01	0.01	0.02
	N	N	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N27/N28	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.12	0.13	0.12	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
		Mz	0.15	0.11	0.09	0.04	0.00	-0.04	-0.09	-0.11	-0.15
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	0.27	0.38	0.52	0.57	0.52	0.38	0.27	-0.02
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Esfuerzos en barras, por hipótesis											
Barra	Hipótesis	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N5/N6	Peso propio	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.08	0.10	0.12	0.13	0.12	0.10	0.08	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CM	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	V	N	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
		Mz	-0.13	-0.09	-0.08	-0.04	0.00	0.04	0.08	0.09	0.13
	N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.877	-0.627	-0.501	-0.251	0.000	0.251	0.501	0.627	0.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	0.27	0.38	0.52	0.57	0.52	0.38	0.27	-0.02
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

2.3.2.1.2.- Combinaciones

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
N3/N5	Madera	PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-14.930	-14.697	-14.464	-14.231	-13.998	-13.764	-13.531
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.59	5.14	7.65	10.12	12.55	14.94
			Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
			Vz	-19.016	-18.721	-18.426	-18.130	-17.835	-17.540	-17.245
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.30	6.55	9.75	12.90	15.99	19.04
			Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02
		PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
			Vz	-16.070	-15.817	-15.565	-15.312	-15.059	-14.806	-14.553
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.79	5.54	8.24	10.90	13.51	16.08
			Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
			Vz	-20.156	-19.841	-19.526	-19.212	-18.897	-18.582	-18.267
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.50	6.94	10.33	13.67	16.95	20.17
			Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02
		PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
			Vz	-97.430	-95.753	-94.076	-92.400	-90.723	-89.046	-87.369
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.90	33.51	49.83	65.85	81.58	97.02
			Mz	0.00	0.01	0.01	0.02	0.03	0.04	0.04
		1.35·PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
			Vz	-101.516	-99.777	-98.038	-96.299	-94.560	-92.821	-91.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.61	34.92	51.93	68.63	85.02	101.11
			Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05
		PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
			Vz	-98.570	-96.874	-95.177	-93.481	-91.784	-90.087	-88.391
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.10	33.91	50.41	66.62	82.54	98.15
			Mz	0.00	0.01	0.01	0.02	0.03	0.04	0.04
		1.35·PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
			Vz	-102.656	-100.897	-99.139	-97.380	-95.622	-93.863	-92.105
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.81	35.31	52.51	69.40	85.98	102.25
			Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05
		PP+CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.087	4.038	3.912	3.769	3.626	3.483	3.341
			Vz	-14.930	-14.697	-14.464	-14.231	-13.998	-13.764	-13.531
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.59	5.14	7.65	10.12	12.55	14.94

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Mz	0.00	-0.71	-1.41	-2.08	-2.73	-3.35	-3.95
		1.35-PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.082	4.033	3.907	3.764	3.621	3.479	3.336
			Vz	-19.016	-18.721	-18.426	-18.130	-17.835	-17.540	-17.245
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.30	6.55	9.75	12.90	15.99	19.04
			Mz	0.00	-0.71	-1.41	-2.08	-2.73	-3.35	-3.94
		PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.087	4.038	3.911	3.768	3.626	3.483	3.340
			Vz	-16.070	-15.817	-15.565	-15.312	-15.059	-14.806	-14.553
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.79	5.54	8.24	10.90	13.51	16.08
			Mz	0.00	-0.71	-1.41	-2.08	-2.73	-3.35	-3.95
		1.35-PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.082	4.033	3.906	3.764	3.621	3.478	3.335
			Vz	-20.156	-19.841	-19.526	-19.212	-18.897	-18.582	-18.267
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.50	6.94	10.33	13.67	16.95	20.17
			Mz	0.00	-0.71	-1.41	-2.08	-2.72	-3.35	-3.94
		PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.069	4.020	3.893	3.751	3.608	3.465	3.322
			Vz	-72.680	-71.437	-70.193	-68.949	-67.705	-66.461	-65.217
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	12.61	25.00	37.18	49.13	60.87	72.40
			Mz	0.00	-0.71	-1.40	-2.07	-2.72	-3.33	-3.93
		1.35-PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.064	4.015	3.889	3.746	3.603	3.460	3.318
			Vz	-76.766	-75.460	-74.154	-72.849	-71.543	-70.237	-68.931
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	13.32	26.41	39.27	51.91	64.31	76.49
			Mz	0.00	-0.71	-1.40	-2.07	-2.71	-3.33	-3.92
		PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.068	4.019	3.893	3.750	3.607	3.465	3.322
			Vz	-73.820	-72.557	-71.293	-70.030	-68.767	-67.503	-66.240
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	12.81	25.39	37.76	49.91	61.83	73.53
			Mz	0.00	-0.71	-1.40	-2.07	-2.72	-3.33	-3.93
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.064	4.015	3.888	3.745	3.603	3.460	3.317
			Vz	-77.906	-76.581	-75.255	-73.930	-72.604	-71.279	-69.953
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	13.52	26.80	39.86	52.68	65.27	77.63
			Mz	0.00	-0.71	-1.40	-2.07	-2.71	-3.33	-3.92
		PP+CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.420	2.391	2.315	2.229	2.144	2.058	1.972
			Vz	-97.430	-95.753	-94.076	-92.400	-90.723	-89.046	-87.369
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.90	33.51	49.83	65.85	81.58	97.02
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.33
		1.35-PP+CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.415	2.386	2.310	2.224	2.139	2.053	1.967
			Vz	-101.516	-99.777	-98.038	-96.299	-94.560	-92.821	-91.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.61	34.92	51.93	68.63	85.02	101.11

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.33
		PP+1.35-CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.420	2.390	2.314	2.229	2.143	2.057	1.972
			Vz	-98.570	-96.874	-95.177	-93.481	-91.784	-90.087	-88.391
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.10	33.91	50.41	66.62	82.54	98.15
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.33
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.415	2.386	2.310	2.224	2.138	2.053	1.967
			Vz	-102.656	-100.897	-99.139	-97.380	-95.622	-93.863	-92.105
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.81	35.31	52.51	69.40	85.98	102.25
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.33
		PP+CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
			Vz	-32.579	-32.175	-31.771	-31.368	-30.964	-30.560	-30.156
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	5.67	11.26	16.79	22.24	27.62	32.94
			Mz	0.00	0.01	0.03	0.04	0.05	0.07	0.08
		1.35-PP+CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
			Vz	-36.665	-36.199	-35.733	-35.267	-34.801	-34.336	-33.870
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	6.38	12.67	18.88	25.01	31.06	37.03
			Mz	0.00	0.01	0.03	0.04	0.06	0.07	0.08
		PP+1.35-CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076
			Vz	-33.719	-33.295	-32.872	-32.449	-32.025	-31.602	-31.178
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	5.86	11.65	17.37	23.01	28.58	34.07
			Mz	0.00	0.01	0.03	0.04	0.05	0.07	0.08
		1.35-PP+1.35-CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
			Vz	-37.805	-37.319	-36.834	-36.348	-35.863	-35.377	-34.892
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	6.57	13.06	19.47	25.78	32.02	38.17
			Mz	0.00	0.01	0.03	0.04	0.06	0.07	0.08
		PP+CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vz	-90.329	-88.915	-87.500	-86.086	-84.671	-83.257	-81.842
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.68	31.12	46.31	61.25	75.94	90.39
			Mz	0.00	0.02	0.03	0.05	0.07	0.08	0.10
		1.35-PP+CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098
			Vz	-94.415	-92.938	-91.462	-89.985	-88.509	-87.032	-85.556
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.39	32.53	48.41	64.02	79.38	94.48
			Mz	0.00	0.02	0.03	0.05	0.07	0.09	0.10
		PP+1.35-CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vz	-91.469	-90.035	-88.601	-87.167	-85.733	-84.299	-82.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.88	31.51	46.89	62.02	76.90	91.53

Esfuerzos en barras, por combinación											
Barra	Combinación		Esfuerzo	Posiciones en la barra							
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m	
			Mz	0.00	0.02	0.03	0.05	0.07	0.08	0.10	
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099
			Vz	-95.555	-94.059	-92.563	-91.066	-89.570	-88.074	-86.578	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	16.59	32.92	48.99	64.79	80.34	95.62	
			Mz	0.00	0.02	0.03	0.05	0.07	0.09	0.10	
		PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.386	2.357	2.281	2.195	2.109	2.024	1.938	
			Vz	-32.579	-32.175	-31.771	-31.368	-30.964	-30.560	-30.156	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	5.67	11.26	16.79	22.24	27.62	32.94	
			Mz	0.00	-0.42	-0.82	-1.21	-1.59	-1.95	-2.30	
		1.35·PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.381	2.352	2.276	2.190	2.105	2.019	1.933	
			Vz	-36.665	-36.199	-35.733	-35.267	-34.801	-34.336	-33.870	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	6.38	12.67	18.88	25.01	31.06	37.03	
			Mz	0.00	-0.42	-0.82	-1.21	-1.59	-1.95	-2.29	
		PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.385	2.356	2.280	2.195	2.109	2.023	1.937	
			Vz	-33.719	-33.295	-32.872	-32.449	-32.025	-31.602	-31.178	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	5.86	11.65	17.37	23.01	28.58	34.07	
			Mz	0.00	-0.42	-0.82	-1.21	-1.59	-1.95	-2.30	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.381	2.351	2.275	2.190	2.104	2.018	1.933	
			Vz	-37.805	-37.319	-36.834	-36.348	-35.863	-35.377	-34.892	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	6.57	13.06	19.47	25.78	32.02	38.17	
			Mz	0.00	-0.42	-0.82	-1.21	-1.59	-1.95	-2.29	
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.368	2.338	2.262	2.177	2.091	2.005	1.920	
			Vz	-90.329	-88.915	-87.500	-86.086	-84.671	-83.257	-81.842	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	15.68	31.12	46.31	61.25	75.94	90.39	
			Mz	0.00	-0.41	-0.82	-1.21	-1.58	-1.94	-2.28	
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.363	2.334	2.258	2.172	2.086	2.001	1.915	
			Vz	-94.415	-92.938	-91.462	-89.985	-88.509	-87.032	-85.556	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	16.39	32.53	48.41	64.02	79.38	94.48	
			Mz	0.00	-0.41	-0.81	-1.20	-1.57	-1.93	-2.27	
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.367	2.338	2.262	2.176	2.091	2.005	1.919	
			Vz	-91.469	-90.035	-88.601	-87.167	-85.733	-84.299	-82.865	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	15.88	31.51	46.89	62.02	76.90	91.53	
			Mz	0.00	-0.41	-0.82	-1.21	-1.58	-1.94	-2.28	
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.362	2.333	2.257	2.171	2.086	2.000	1.914	
			Vz	-95.555	-94.059	-92.563	-91.066	-89.570	-88.074	-86.578	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	16.59	32.92	48.99	64.79	80.34	95.62	

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Mz	0.00	-0.41	-0.81	-1.20	-1.57	-1.93	-2.27
		PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
			Vz	-106.255	-104.492	-102.730	-100.968	-99.206	-97.443	-95.681
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.44	36.57	54.40	71.91	89.12	106.02
			Mz	0.00	0.01	0.02	0.04	0.05	0.06	0.07
			1.35·PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000
		Vy		-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076
		Vz		-110.341	-108.516	-106.692	-104.868	-103.043	-101.219	-99.395
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		0.00	19.15	37.98	56.49	74.68	92.56	110.11
		Mz		0.00	0.01	0.03	0.04	0.05	0.07	0.08
		PP+1.35·CM+1.5·Q+0.75·N		N	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
			Vz	-107.395	-105.613	-103.831	-102.049	-100.267	-98.485	-96.703
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.64	36.96	54.98	72.68	90.07	107.15
			Mz	0.00	0.01	0.02	0.04	0.05	0.06	0.08
			1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000
		Vy		-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077
		Vz		-111.480	-109.636	-107.793	-105.949	-104.105	-102.261	-100.417
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		0.00	19.35	38.37	57.08	75.45	93.51	111.25
		Mz		0.00	0.01	0.03	0.04	0.05	0.07	0.08
		PP+CM+1.5·V+0.75·N		N	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.057	4.008	3.882	3.739	3.596	3.453	3.310
			Vz	-23.755	-23.436	-23.118	-22.799	-22.481	-22.162	-21.844
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	4.13	8.20	12.22	16.18	20.09	23.94
			Mz	0.00	-0.71	-1.40	-2.07	-2.71	-3.32	-3.92
			1.35·PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000
		Vy		4.052	4.003	3.877	3.734	3.591	3.448	3.306
		Vz		-27.841	-27.460	-27.079	-26.699	-26.318	-25.938	-25.557
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		0.00	4.84	9.61	14.32	18.96	23.53	28.03
		Mz		0.00	-0.71	-1.40	-2.06	-2.70	-3.32	-3.91
		PP+1.35·CM+1.5·V+0.75·N		N	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.057	4.008	3.881	3.738	3.595	3.453	3.310
			Vz	-24.895	-24.556	-24.218	-23.880	-23.542	-23.204	-22.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	4.33	8.59	12.80	16.95	21.04	25.07
			Mz	0.00	-0.71	-1.40	-2.07	-2.71	-3.32	-3.92
			1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000
		Vy		4.052	4.003	3.876	3.734	3.591	3.448	3.305
		Vz		-28.980	-28.580	-28.180	-27.780	-27.380	-26.980	-26.580
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		0.00	5.04	10.00	14.90	19.73	24.48	29.17
		Mz		0.00	-0.71	-1.40	-2.06	-2.70	-3.32	-3.91
		PP+CM+1.05·Q+1.5·V+0.75·N		N	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.039	3.990	3.863	3.721	3.578	3.435	3.292
			Vz	-81.505	-80.176	-78.846	-77.517	-76.188	-74.859	-73.530
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	14.15	28.06	41.74	55.19	68.41	81.39

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
		1.35-PP+CM+1.05-Q+1.5-V+0.75-N	Mz	0.00	-0.70	-1.39	-2.06	-2.69	-3.31	-3.90
			N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.034	3.985	3.859	3.716	3.573	3.430	3.287
			Vz	-85.591	-84.199	-82.808	-81.417	-80.026	-78.635	-77.244
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	14.86	29.47	43.84	57.97	71.85	85.49
			Mz	0.00	-0.70	-1.39	-2.05	-2.69	-3.30	-3.89
		PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.038	3.989	3.863	3.720	3.577	3.434	3.292
			Vz	-82.645	-81.296	-79.947	-78.598	-77.250	-75.901	-74.552
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	14.34	28.45	42.33	55.96	69.36	82.53
			Mz	0.00	-0.70	-1.39	-2.06	-2.69	-3.31	-3.90
		1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.034	3.985	3.858	3.715	3.572	3.430	3.287
			Vz	-86.730	-85.320	-83.909	-82.498	-81.087	-79.677	-78.266
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.05	29.86	44.42	58.74	72.80	86.62
			Mz	0.00	-0.70	-1.39	-2.05	-2.69	-3.30	-3.89
		PP+CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.390	2.361	2.285	2.199	2.113	2.028	1.942
			Vz	-106.255	-104.492	-102.730	-100.968	-99.206	-97.443	-95.681
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.44	36.57	54.40	71.91	89.12	106.02
			Mz	0.00	-0.42	-0.82	-1.22	-1.59	-1.96	-2.30
		1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.385	2.356	2.280	2.194	2.109	2.023	1.937
			Vz	-110.341	-108.516	-106.692	-104.868	-103.043	-101.219	-99.395
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	19.15	37.98	56.49	74.68	92.56	110.11
			Mz	0.00	-0.42	-0.82	-1.21	-1.59	-1.95	-2.30
		PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.390	2.360	2.284	2.199	2.113	2.027	1.942
			Vz	-107.395	-105.613	-103.831	-102.049	-100.267	-98.485	-96.703
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.64	36.96	54.98	72.68	90.07	107.15
			Mz	0.00	-0.42	-0.82	-1.22	-1.59	-1.96	-2.30
		1.35-PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.385	2.355	2.280	2.194	2.108	2.022	1.937
			Vz	-111.480	-109.636	-107.793	-105.949	-104.105	-102.261	-100.417
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	19.35	38.37	57.08	75.45	93.51	111.25
			Mz	0.00	-0.42	-0.82	-1.21	-1.59	-1.95	-2.30

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N5/N7	Madera	PP+CM	N	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
			Vy	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
			Vz	-13.315	-13.044	-12.773	-12.502	-12.231	-11.960	-11.689	-11.418	-11.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	14.96	17.64	20.26	22.83	25.35	27.81	30.21	32.56	34.86
			Mz	0.02	0.00	-0.01	-0.02	-0.04	-0.05	-0.07	-0.08	-0.10
		1.35-PP+CM	N	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	-16.954	-16.611	-16.268	-15.925	-15.582	-15.239	-14.896	-14.553	-14.209
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	19.06	22.47	25.81	29.09	32.29	35.42	38.49	41.48	44.41
			Mz	0.02	0.01	-0.01	-0.03	-0.05	-0.07	-0.09	-0.11	-0.13
		PP+1.35-CM	N	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
			Vy	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
			Vz	-14.335	-14.042	-13.748	-13.454	-13.160	-12.866	-12.573	-12.279	-11.985
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	16.09	18.98	21.80	24.57	27.28	29.92	32.51	35.04	37.50
			Mz	0.02	0.00	-0.01	-0.03	-0.04	-0.06	-0.07	-0.09	-0.10
		1.35-PP+1.35-CM	N	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
			Vy	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
			Vz	-17.975	-17.609	-17.243	-16.877	-16.511	-16.146	-15.780	-15.414	-15.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	20.19	23.81	27.35	30.82	34.22	37.54	40.79	43.96	47.05
			Mz	0.03	0.01	-0.01	-0.03	-0.05	-0.07	-0.09	-0.11	-0.13
		PP+CM+1.5-Q	N	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
			Vy	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229
			Vz	-87.140	-85.191	-83.242	-81.293	-79.345	-77.396	-75.447	-73.498	-71.549
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	97.04	114.56	131.69	148.42	164.75	180.69	196.23	211.38	226.13
			Mz	0.05	0.00	-0.04	-0.09	-0.14	-0.18	-0.23	-0.28	-0.32
		1.35-PP+CM+1.5-Q	N	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178
			Vy	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251
			Vz	-90.780	-88.759	-86.738	-84.717	-82.696	-80.675	-78.654	-76.633	-74.612
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	101.13	119.39	137.24	154.67	171.70	188.31	204.51	220.30	235.68
			Mz	0.06	0.01	-0.05	-0.10	-0.15	-0.20	-0.25	-0.30	-0.35
		PP+1.35-CM+1.5-Q	N	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
			Vy	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231
			Vz	-88.161	-86.189	-84.217	-82.246	-80.274	-78.302	-76.331	-74.359	-72.387
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	98.17	115.90	133.23	150.15	166.68	182.81	198.53	213.85	228.78
			Mz	0.05	0.00	-0.04	-0.09	-0.14	-0.19	-0.23	-0.28	-0.33
		1.35-PP+1.35-CM+1.5-Q	N	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
			Vy	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254
			Vz	-91.800	-89.756	-87.713	-85.669	-83.625	-81.582	-79.538	-77.494	-75.450
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	102.27	120.73	138.78	156.41	173.62	190.42	206.81	222.78	238.33
			Mz	0.06	0.01	-0.05	-0.10	-0.15	-0.20	-0.25	-0.31	-0.36
		PP+CM+1.5-V	N	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263
			Vy	-1.769	-1.769	-1.917	-2.083	-2.249	-2.415	-2.442	-2.442	-2.442
			Vz	-13.315	-13.044	-12.773	-12.502	-12.231	-11.960	-11.689	-11.418	-11.147
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	15.07	17.75	20.37	22.94	25.46	27.92	30.32	32.67	34.97
			Mz	-3.68	-3.33	-2.95	-2.55	-2.10	-1.63	-1.13	-0.64	-0.14
		1.35-PP+CM+1.5-V	N	-3.247	-3.247	-3.247	-3.247	-3.247	-3.247	-3.247	-3.247	-3.247
			Vy	-1.746	-1.746	-1.894	-2.060	-2.226	-2.392	-2.419	-2.419	-2.419
			Vz	-16.954	-16.611	-16.268	-15.925	-15.582	-15.239	-14.896	-14.553	-14.209
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	19.17	22.58	25.92	29.20	32.40	35.53	38.60	41.59	44.52
			Mz	-3.68	-3.32	-2.96	-2.55	-2.12	-1.65	-1.16	-0.66	-0.17
		PP+1.35-CM+1.5-V	N	-3.260	-3.260	-3.260	-3.260	-3.260	-3.260	-3.260	-3.260	-3.260
			Vy	-1.766	-1.766	-1.915	-2.080	-2.246	-2.412	-2.439	-2.439	-2.439
			Vz	-14.335	-14.042	-13.748	-13.454	-13.160	-12.866	-12.573	-12.279	-11.985
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	16.20	19.09	21.91	24.68	27.39	30.03	32.62	35.15	37.61
			Mz	-3.68	-3.33	-2.95	-2.55	-2.11	-1.63	-1.14	-0.64	-0.14
		1.35-PP+1.35-CM+1.5-V	N	-3.244	-3.244	-3.244	-3.244	-3.244	-3.244	-3.244	-3.244	-3.244
			Vy	-1.744	-1.744	-1.892	-2.058	-2.224	-2.390	-2.417	-2.417	-2.417
			Vz	-17.975	-17.609	-17.243	-16.877	-16.511	-16.146	-15.780	-15.414	-15.048
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	20.30	23.92	27.46	30.93	34.33	37.65	40.90	44.07	47.17
			Mz	-3.68	-3.32	-2.96	-2.55	-2.12	-1.65	-1.16	-0.67	-0.18
		PP+CM+1.05-Q+1.5-V	N	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187
			Vy	-1.658	-1.658	-1.806	-1.972	-2.138	-2.304	-2.331	-2.331	-2.331
			Vz	-64.992	-63.547	-62.101	-60.656	-59.210	-57.765	-56.319	-54.874	-53.428
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	72.52	85.59	98.37	110.85	123.04	134.94	146.54	157.84	168.86
			Mz	-3.66	-3.33	-2.98	-2.59	-2.17	-1.72	-1.25	-0.77	-0.30
		1.35-PP+CM+1.05-Q+1.5-V	N	-3.171	-3.171	-3.171	-3.171	-3.171	-3.171	-3.171	-3.171	-3.171
			Vy	-1.636	-1.636	-1.784	-1.950	-2.116	-2.282	-2.309	-2.309	-2.309
			Vz	-68.632	-67.114	-65.597	-64.079	-62.562	-61.044	-59.526	-58.009	-56.491
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	76.62	90.42	103.92	117.11	129.98	142.55	154.81	166.77	178.41
			Mz	-3.66	-3.32	-2.98	-2.60	-2.19	-1.74	-1.27	-0.80	-0.33
		PP+1.35-CM+1.05-Q+1.5-V	N	-3.184	-3.184	-3.184	-3.184	-3.184	-3.184	-3.184	-3.184	-3.184
			Vy	-1.656	-1.656	-1.804	-1.970	-2.136	-2.302	-2.329	-2.329	-2.329
			Vz	-66.013	-64.545	-63.076	-61.608	-60.140	-58.672	-57.203	-55.735	-54.267
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	73.66	86.93	99.91	112.59	124.97	137.05	148.83	160.32	171.50
			Mz	-3.66	-3.33	-2.98	-2.59	-2.17	-1.72	-1.25	-0.78	-0.30
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168
			Vy	-1.633	-1.633	-1.782	-1.947	-2.113	-2.279	-2.306	-2.306	-2.306
			Vz	-69.653	-68.112	-66.572	-65.031	-63.491	-61.951	-60.410	-58.870	-57.330
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	77.76	91.76	105.46	118.84	131.91	144.67	157.11	169.24	181.06
			Mz	-3.66	-3.32	-2.98	-2.60	-2.19	-1.74	-1.27	-0.80	-0.33
		PP+CM+1.5-Q+0.9-V	N	-1.828	-1.828	-1.828	-1.828	-1.828	-1.828	-1.828	-1.828	-1.828
			Vy	-0.875	-0.875	-0.964	-1.064	-1.163	-1.263	-1.279	-1.279	-1.279
			Vz	-87.140	-85.191	-83.242	-81.293	-79.345	-77.396	-75.447	-73.498	-71.549
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	97.10	114.62	131.75	148.48	164.82	180.76	196.30	211.45	226.20
			Mz	-2.17	-1.99	-1.81	-1.60	-1.38	-1.13	-0.87	-0.61	-0.35
		1.35-PP+CM+1.5-Q+0.9-V	N	-1.812	-1.812	-1.812	-1.812	-1.812	-1.812	-1.812	-1.812	-1.812
			Vy	-0.852	-0.852	-0.941	-1.041	-1.141	-1.240	-1.256	-1.256	-1.256
			Vz	-90.780	-88.759	-86.738	-84.717	-82.696	-80.675	-78.654	-76.633	-74.612
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	101.20	119.46	137.30	154.74	171.76	188.37	204.58	220.37	235.75
			Mz	-2.17	-1.99	-1.81	-1.61	-1.39	-1.15	-0.89	-0.64	-0.38
		PP+1.35-CM+1.5-Q+0.9-V	N	-1.825	-1.825	-1.825	-1.825	-1.825	-1.825	-1.825	-1.825	-1.825
			Vy	-0.873	-0.873	-0.962	-1.061	-1.161	-1.260	-1.277	-1.277	-1.277
			Vz	-88.161	-86.189	-84.217	-82.246	-80.274	-78.302	-76.331	-74.359	-72.387
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	98.24	115.97	133.29	150.22	166.75	182.87	198.60	213.92	228.84
			Mz	-2.17	-1.99	-1.81	-1.60	-1.38	-1.13	-0.87	-0.61	-0.35
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-1.809	-1.809	-1.809	-1.809	-1.809	-1.809	-1.809	-1.809	-1.809
			Vy	-0.850	-0.850	-0.939	-1.039	-1.138	-1.238	-1.254	-1.254	-1.254
			Vz	-91.800	-89.756	-87.713	-85.669	-83.625	-81.582	-79.538	-77.494	-75.450
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	102.34	120.80	138.84	156.47	173.69	190.49	206.87	222.84	238.39
			Mz	-2.17	-1.99	-1.81	-1.61	-1.39	-1.15	-0.89	-0.64	-0.38
		PP+CM+1.5-N	N	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
			Vz	-28.621	-28.152	-27.682	-27.213	-26.744	-26.274	-25.805	-25.336	-24.866
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	32.94	38.71	44.39	49.97	55.46	60.85	66.15	71.35	76.45
			Mz	0.09	0.03	-0.04	-0.11	-0.17	-0.24	-0.31	-0.37	-0.44
		1.35-PP+CM+1.5-N	N	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252
			Vy	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351
			Vz	-32.260	-31.719	-31.178	-30.636	-30.095	-29.553	-29.012	-28.471	-27.929
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	37.04	43.55	49.94	56.23	62.40	68.47	74.42	80.27	86.00
			Mz	0.10	0.03	-0.04	-0.11	-0.19	-0.26	-0.33	-0.40	-0.47
		PP+1.35-CM+1.5-N	N	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239
			Vy	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
			Vz	-29.642	-29.149	-28.657	-28.165	-27.673	-27.181	-26.689	-26.197	-25.705
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	34.08	40.05	45.93	51.71	57.39	62.97	68.44	73.82	79.10
			Mz	0.09	0.03	-0.04	-0.11	-0.17	-0.24	-0.31	-0.38	-0.44
		1.35-PP+1.35-CM+1.5-N	N	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255
			Vy	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
			Vz	-33.281	-32.717	-32.153	-31.589	-31.024	-30.460	-29.896	-29.332	-28.768
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	38.17	44.89	51.48	57.96	64.33	70.58	76.72	82.74	88.65
			Mz	0.10	0.03	-0.04	-0.11	-0.19	-0.26	-0.33	-0.40	-0.47
		PP+CM+1.05-Q+1.5-N	N	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312
			Vy	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439
			Vz	-80.299	-78.655	-77.011	-75.367	-73.723	-72.080	-70.436	-68.792	-67.148
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	90.40	106.56	122.39	137.88	153.04	167.87	182.36	196.52	210.34
			Mz	0.12	0.03	-0.06	-0.15	-0.24	-0.33	-0.42	-0.51	-0.60
		1.35-PP+CM+1.05-Q+1.5-N	N	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
			Vy	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461
			Vz	-83.938	-82.222	-80.506	-78.790	-77.075	-75.359	-73.643	-71.927	-70.211
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	94.50	111.39	127.94	144.14	159.99	175.49	190.64	205.44	219.90
			Mz	0.12	0.03	-0.07	-0.16	-0.25	-0.35	-0.44	-0.54	-0.63
		PP+1.35-CM+1.05-Q+1.5-N	N	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315
			Vy	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
			Vz	-81.319	-79.653	-77.986	-76.319	-74.653	-72.986	-71.320	-69.653	-67.987
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	91.53	107.90	123.93	139.62	154.97	169.99	184.66	198.99	212.99
			Mz	0.12	0.03	-0.06	-0.15	-0.24	-0.33	-0.42	-0.51	-0.60
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
			Vy	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464
			Vz	-84.959	-83.220	-81.481	-79.743	-78.004	-76.265	-74.527	-72.788	-71.049
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	95.63	112.73	129.48	145.87	161.92	177.60	192.94	207.92	222.54
			Mz	0.12	0.03	-0.07	-0.16	-0.26	-0.35	-0.44	-0.54	-0.63
		PP+CM+0.9-V+1.5-N	N	-1.754	-1.754	-1.754	-1.754	-1.754	-1.754	-1.754	-1.754	-1.754
			Vy	-0.775	-0.775	-0.864	-0.964	-1.064	-1.163	-1.179	-1.179	-1.179
			Vz	-28.621	-28.152	-27.682	-27.213	-26.744	-26.274	-25.805	-25.336	-24.866
			Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
			My	33.01	38.78	44.46	50.04	55.53	60.92	66.21	71.41	76.52
			Mz	-2.13	-1.97	-1.80	-1.62	-1.41	-1.19	-0.95	-0.71	-0.47
		1.35-PP+CM+0.9-V+1.5-N	N	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738
			Vy	-0.753	-0.753	-0.842	-0.941	-1.041	-1.141	-1.157	-1.157	-1.157
			Vz	-32.260	-31.719	-31.178	-30.636	-30.095	-29.553	-29.012	-28.471	-27.929
			Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	37.11	43.61	50.01	56.29	62.47	68.53	74.49	80.34	86.07
			Mz	-2.12	-1.97	-1.81	-1.63	-1.42	-1.20	-0.97	-0.73	-0.50
		PP+1.35·CM+0.9·V+1.5·N	N	-1.751	-1.751	-1.751	-1.751	-1.751	-1.751	-1.751	-1.751	-1.751
			Vy	-0.773	-0.773	-0.862	-0.962	-1.061	-1.161	-1.177	-1.177	-1.177
			Vz	-29.642	-29.149	-28.657	-28.165	-27.673	-27.181	-26.689	-26.197	-25.705
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	34.14	40.12	46.00	51.78	57.45	63.03	68.51	73.89	79.17
			Mz	-2.13	-1.97	-1.80	-1.62	-1.41	-1.19	-0.95	-0.71	-0.47
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-1.735	-1.735	-1.735	-1.735	-1.735	-1.735	-1.735	-1.735	-1.735
			Vy	-0.751	-0.751	-0.840	-0.939	-1.039	-1.138	-1.155	-1.155	-1.155
			Vz	-33.281	-32.717	-32.153	-31.589	-31.024	-30.460	-29.896	-29.332	-28.768
			Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
			My	38.24	44.95	51.55	58.03	64.40	70.65	76.79	82.81	88.72
			Mz	-2.12	-1.97	-1.81	-1.63	-1.43	-1.20	-0.97	-0.74	-0.50
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677
			Vy	-0.665	-0.665	-0.754	-0.854	-0.953	-1.053	-1.069	-1.069	-1.069
			Vz	-80.299	-78.655	-77.011	-75.367	-73.723	-72.080	-70.436	-68.792	-67.148
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	90.46	106.62	122.45	137.95	153.11	167.94	182.43	196.59	210.41
			Mz	-2.11	-1.97	-1.83	-1.66	-1.48	-1.28	-1.06	-0.84	-0.62
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.661	-1.661	-1.661	-1.661	-1.661	-1.661	-1.661	-1.661	-1.661
			Vy	-0.642	-0.642	-0.731	-0.831	-0.931	-1.030	-1.046	-1.046	-1.046
			Vz	-83.938	-82.222	-80.506	-78.790	-77.075	-75.359	-73.643	-71.927	-70.211
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	94.56	111.46	128.00	144.20	160.05	175.55	190.71	205.51	219.96
			Mz	-2.10	-1.97	-1.83	-1.67	-1.49	-1.29	-1.08	-0.87	-0.66
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.675	-1.675	-1.675	-1.675	-1.675	-1.675	-1.675	-1.675	-1.675
			Vy	-0.663	-0.663	-0.752	-0.851	-0.951	-1.050	-1.067	-1.067	-1.067
			Vz	-81.319	-79.653	-77.986	-76.319	-74.653	-72.986	-71.320	-69.653	-67.987
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	91.60	107.97	123.99	139.69	155.04	170.05	184.73	199.06	213.06
			Mz	-2.11	-1.97	-1.83	-1.67	-1.48	-1.28	-1.06	-0.84	-0.63
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.659	-1.659	-1.659	-1.659	-1.659	-1.659	-1.659	-1.659	-1.659
			Vy	-0.640	-0.640	-0.729	-0.829	-0.928	-1.028	-1.044	-1.044	-1.044
			Vz	-84.959	-83.220	-81.481	-79.743	-78.004	-76.265	-74.527	-72.788	-71.049
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	95.70	112.80	129.55	145.94	161.98	177.67	193.00	207.98	222.61
			Mz	-2.10	-1.97	-1.83	-1.67	-1.49	-1.30	-1.08	-0.87	-0.66
		PP+CM+1.5·Q+0.75·N	N	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254
			Vy	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
			Vz	-94.793	-92.745	-90.697	-88.649	-86.601	-84.553	-82.505	-80.457	-78.409
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	106.03	125.10	143.75	161.99	179.81	197.21	214.20	230.77	246.93
			Mz	0.09	0.02	-0.06	-0.13	-0.20	-0.28	-0.35	-0.42	-0.49
		1.35·PP+CM+1.5·Q+0.75·N	N	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269
			Vy	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
			Vz	-98.433	-96.313	-94.192	-92.072	-89.952	-87.832	-85.712	-83.592	-81.472
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	110.13	129.93	149.30	168.24	186.75	204.83	222.48	239.69	256.48
			Mz	0.09	0.02	-0.06	-0.14	-0.22	-0.29	-0.37	-0.45	-0.53
		PP+1.35·CM+1.5·Q+0.75·N	N	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
			Vy	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
			Vz	-95.814	-93.743	-91.672	-89.601	-87.531	-85.460	-83.389	-81.318	-79.247
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	107.16	126.44	145.29	163.73	181.74	199.33	216.50	233.25	249.57
			Mz	0.09	0.02	-0.06	-0.13	-0.21	-0.28	-0.35	-0.42	-0.50
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.272

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382
			Vz	-99.453	-97.310	-95.167	-93.025	-90.882	-88.739	-86.596	-84.453	-82.310
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	111.26	131.27	150.84	169.98	188.68	206.95	224.78	242.17	259.13
			Mz	0.09	0.02	-0.06	-0.14	-0.22	-0.30	-0.37	-0.45	-0.53
		PP+CM+1.5·V+0.75·N	N	-3.172	-3.172	-3.172	-3.172	-3.172	-3.172	-3.172	-3.172	-3.172
			Vy	-1.640	-1.640	-1.788	-1.954	-2.120	-2.286	-2.313	-2.313	-2.313
			Vz	-20.968	-20.598	-20.228	-19.857	-19.487	-19.117	-18.747	-18.377	-18.006
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	24.06	28.28	32.44	36.51	40.51	44.44	48.29	52.06	55.76
			Mz	-3.65	-3.31	-2.97	-2.59	-2.17	-1.72	-1.25	-0.78	-0.31
		1.35·PP+CM+1.5·V+0.75·N	N	-3.156	-3.156	-3.156	-3.156	-3.156	-3.156	-3.156	-3.156	-3.156
			Vy	-1.617	-1.617	-1.766	-1.932	-2.098	-2.263	-2.291	-2.291	-2.291
			Vz	-24.607	-24.165	-23.723	-23.281	-22.838	-22.396	-21.954	-21.512	-21.069
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	28.16	33.12	37.99	42.77	47.46	52.06	56.57	60.99	65.32
			Mz	-3.64	-3.31	-2.97	-2.59	-2.18	-1.74	-1.28	-0.81	-0.34
		PP+1.35·CM+1.5·V+0.75·N	N	-3.169	-3.169	-3.169	-3.169	-3.169	-3.169	-3.169	-3.169	-3.169
			Vy	-1.638	-1.638	-1.786	-1.952	-2.118	-2.284	-2.311	-2.311	-2.311
			Vz	-21.988	-21.596	-21.203	-20.810	-20.417	-20.024	-19.631	-19.238	-18.845
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	25.19	29.62	33.98	38.25	42.44	46.55	50.59	54.54	58.41
			Mz	-3.65	-3.31	-2.97	-2.59	-2.17	-1.73	-1.26	-0.79	-0.32
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-3.153	-3.153	-3.153	-3.153	-3.153	-3.153	-3.153	-3.153	-3.153
			Vy	-1.615	-1.615	-1.763	-1.929	-2.095	-2.261	-2.288	-2.288	-2.288
			Vz	-25.628	-25.163	-24.698	-24.233	-23.768	-23.303	-22.838	-22.373	-21.908
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	29.29	34.46	39.53	44.50	49.38	54.17	58.86	63.46	67.96
			Mz	-3.64	-3.31	-2.97	-2.59	-2.19	-1.74	-1.28	-0.81	-0.35
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.095	-3.095	-3.095	-3.095	-3.095	-3.095	-3.095	-3.095	-3.095
			Vy	-1.530	-1.530	-1.678	-1.844	-2.010	-2.176	-2.203	-2.203	-2.203
			Vz	-72.645	-71.101	-69.556	-68.012	-66.467	-64.922	-63.378	-61.833	-60.288
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	81.51	96.13	110.43	124.42	138.10	151.46	164.50	177.24	189.66
			Mz	-3.63	-3.31	-2.99	-2.63	-2.24	-1.81	-1.37	-0.92	-0.47
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.080	-3.080	-3.080	-3.080	-3.080	-3.080	-3.080	-3.080	-3.080
			Vy	-1.507	-1.507	-1.655	-1.821	-1.987	-2.153	-2.180	-2.180	-2.180
			Vz	-76.285	-74.668	-73.052	-71.435	-69.818	-68.201	-66.585	-64.968	-63.351
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	85.61	100.96	115.98	130.68	145.04	159.08	172.78	186.16	199.21
			Mz	-3.62	-3.31	-2.99	-2.64	-2.25	-1.83	-1.39	-0.94	-0.50
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-3.093	-3.093	-3.093	-3.093	-3.093	-3.093	-3.093	-3.093	-3.093
			Vy	-1.527	-1.527	-1.676	-1.841	-2.007	-2.173	-2.200	-2.200	-2.200
			Vz	-73.666	-72.099	-70.531	-68.964	-67.396	-65.829	-64.261	-62.694	-61.127
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	82.65	97.47	111.97	126.16	140.03	153.57	166.80	179.71	192.30
			Mz	-3.62	-3.31	-2.99	-2.63	-2.24	-1.82	-1.37	-0.92	-0.47
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-3.077	-3.077	-3.077	-3.077	-3.077	-3.077	-3.077	-3.077	-3.077
			Vy	-1.505	-1.505	-1.653	-1.819	-1.985	-2.151	-2.178	-2.178	-2.178
			Vz	-77.306	-75.666	-74.027	-72.387	-70.748	-69.108	-67.469	-65.829	-64.190
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	86.75	102.30	117.53	132.41	146.97	161.19	175.08	188.63	201.86
			Mz	-3.62	-3.31	-2.99	-2.64	-2.25	-1.83	-1.39	-0.95	-0.50
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736	-1.736
			Vy	-0.746	-0.746	-0.835	-0.935	-1.035	-1.134	-1.150	-1.150	-1.150
			Vz	-94.793	-92.745	-90.697	-88.649	-86.601	-84.553	-82.505	-80.457	-78.409
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	106.09	125.16	143.82	162.05	179.88	197.28	214.27	230.84	246.99
			Mz	-2.13	-1.98	-1.82	-1.64	-1.44	-1.22	-0.99	-0.75	-0.52
		1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	-1.720	-1.720	-1.720	-1.720	-1.720	-1.720	-1.720	-1.720	-1.720
			Vy	-0.724	-0.724	-0.813	-0.912	-1.012	-1.111	-1.128	-1.128	-1.128
			Vz	-98.433	-96.313	-94.192	-92.072	-89.952	-87.832	-85.712	-83.592	-81.472
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	110.19	130.00	149.37	168.31	186.82	204.90	222.54	239.76	256.55
			Mz	-2.13	-1.98	-1.83	-1.65	-1.46	-1.24	-1.01	-0.78	-0.55
			N	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733
			Vy	-0.744	-0.744	-0.833	-0.933	-1.032	-1.132	-1.148	-1.148	-1.148
			Vz	-95.814	-93.743	-91.672	-89.601	-87.531	-85.460	-83.389	-81.318	-79.247
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	107.23	126.50	145.36	163.79	181.80	199.39	216.56	233.31	249.64
			Mz	-2.13	-1.98	-1.82	-1.64	-1.44	-1.22	-0.99	-0.76	-0.52
		PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718
			Vy	-0.721	-0.721	-0.810	-0.910	-1.010	-1.109	-1.125	-1.125	-1.125
			Vz	-99.453	-97.310	-95.167	-93.025	-90.882	-88.739	-86.596	-84.453	-82.310
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	111.33	131.34	150.91	170.05	188.75	207.01	224.84	242.23	259.19
			Mz	-2.13	-1.98	-1.83	-1.65	-1.46	-1.24	-1.01	-0.78	-0.55
			N	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718	-1.718
			Vy	-0.721	-0.721	-0.810	-0.910	-1.010	-1.109	-1.125	-1.125	-1.125
			Vz	-99.453	-97.310	-95.167	-93.025	-90.882	-88.739	-86.596	-84.453	-82.310
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	111.33	131.34	150.91	170.05	188.75	207.01	224.84	242.23	259.19
			Mz	-2.13	-1.98	-1.83	-1.65	-1.46	-1.24	-1.01	-0.78	-0.55

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N7/N9	Madera	PP+CM	N	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
			Vy	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
			Vz	-10.879	-10.608	-10.337	-10.066	-9.795	-9.524	-9.253	-8.982	-8.711
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	34.86	37.04	39.17	41.25	43.27	45.23	47.14	48.99	50.79
			Mz	-0.10	-0.07	-0.04	-0.02	0.01	0.04	0.07	0.09	0.12
		1.35-PP+CM	N	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vy	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
			Vz	-13.849	-13.505	-13.162	-12.819	-12.476	-12.133	-11.790	-11.447	-11.104
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	44.41	47.19	49.90	52.54	55.12	57.62	60.05	62.42	64.71
			Mz	-0.13	-0.09	-0.06	-0.02	0.01	0.05	0.09	0.12	0.16
		PP+1.35-CM	N	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
			Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
			Vz	-11.717	-11.424	-11.130	-10.836	-10.542	-10.248	-9.955	-9.661	-9.367
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	37.50	39.86	42.15	44.38	46.56	48.67	50.73	52.72	54.66
			Mz	-0.10	-0.07	-0.04	-0.02	0.01	0.04	0.07	0.10	0.12
		1.35-PP+1.35-CM	N	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
			Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vz	-14.687	-14.321	-13.955	-13.589	-13.223	-12.857	-12.491	-12.126	-11.760
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	47.06	50.01	52.88	55.68	58.41	61.06	63.64	66.14	68.57
			Mz	-0.13	-0.10	-0.06	-0.02	0.01	0.05	0.09	0.12	0.16
		PP+CM+1.5-Q	N	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
			Vy	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479
			Vz	-71.284	-69.335	-67.386	-65.437	-63.489	-61.540	-59.591	-57.642	-55.693
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	226.14	240.44	254.34	267.85	280.96	293.67	305.99	317.91	329.44
			Mz	-0.33	-0.23	-0.13	-0.03	0.06	0.16	0.26	0.36	0.45
		1.35-PP+CM+1.5-Q	N	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
			Vy	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-74.253	-72.233	-70.212	-68.191	-66.170	-64.149	-62.128	-60.107	-58.086
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	235.69	250.59	265.08	279.15	292.81	306.06	318.90	331.33	343.35
			Mz	-0.36	-0.25	-0.14	-0.04	0.07	0.17	0.28	0.39	0.49
		PP+1.35-CM+1.5-Q	N	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
			Vy	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484
			Vz	-72.122	-70.151	-68.179	-66.207	-64.236	-62.264	-60.292	-58.321	-56.349
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	228.79	243.26	257.32	270.99	284.25	297.12	309.58	321.64	333.30
			Mz	-0.33	-0.23	-0.13	-0.03	0.07	0.16	0.26	0.36	0.46
		1.35-PP+1.35-CM+1.5-Q	N	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
			Vy	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526
			Vz	-75.092	-73.048	-71.004	-68.961	-66.917	-64.873	-62.829	-60.786	-58.742
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	238.34	253.41	268.05	282.29	296.10	309.51	322.49	335.06	347.22
			Mz	-0.36	-0.25	-0.15	-0.04	0.07	0.18	0.28	0.39	0.50
		PP+CM+1.5-V	N	-7.839	-7.839	-7.839	-7.839	-7.839	-7.839	-7.839	-7.839	-7.839
			Vy	0.328	0.328	0.180	0.014	-0.152	-0.318	-0.345	-0.345	-0.345
			Vz	-10.879	-10.608	-10.337	-10.066	-9.795	-9.524	-9.253	-8.982	-8.711
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	34.81	36.99	39.12	41.20	43.22	45.18	47.09	48.95	50.75
			Mz	-0.06	-0.12	-0.18	-0.20	-0.18	-0.13	-0.06	0.01	0.08
		1.35-PP+CM+1.5-V	N	-7.829	-7.829	-7.829	-7.829	-7.829	-7.829	-7.829	-7.829	-7.829
			Vy	0.286	0.286	0.138	-0.028	-0.194	-0.360	-0.387	-0.387	-0.387
			Vz	-13.849	-13.505	-13.162	-12.819	-12.476	-12.133	-11.790	-11.447	-11.104
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	44.36	47.14	49.85	52.50	55.07	57.57	60.00	62.37	64.66
			Mz	-0.09	-0.15	-0.19	-0.20	-0.18	-0.12	-0.04	0.03	0.11
		PP+1.35-CM+1.5-V	N	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840
			Vy	0.323	0.323	0.175	0.009	-0.157	-0.323	-0.350	-0.350	-0.350
			Vz	-11.717	-11.424	-11.130	-10.836	-10.542	-10.248	-9.955	-9.661	-9.367
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	37.46	39.81	42.10	44.34	46.51	48.62	50.68	52.67	54.61
			Mz	-0.06	-0.13	-0.18	-0.20	-0.18	-0.13	-0.06	0.01	0.08
		1.35-PP+1.35-CM+1.5-V	N	-7.830	-7.830	-7.830	-7.830	-7.830	-7.830	-7.830	-7.830	-7.830
			Vy	0.281	0.281	0.133	-0.033	-0.199	-0.365	-0.392	-0.392	-0.392
			Vz	-14.687	-14.321	-13.955	-13.589	-13.223	-12.857	-12.491	-12.126	-11.760
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	47.01	49.96	52.83	55.63	58.36	61.01	63.59	66.10	68.52
			Mz	-0.09	-0.15	-0.19	-0.20	-0.18	-0.12	-0.04	0.04	0.12
		PP+CM+1.05-Q+1.5-V	N	-7.820	-7.820	-7.820	-7.820	-7.820	-7.820	-7.820	-7.820	-7.820
			Vy	0.086	0.086	-0.062	-0.228	-0.394	-0.560	-0.587	-0.587	-0.587
			Vz	-53.163	-51.717	-50.272	-48.826	-47.380	-45.935	-44.489	-43.044	-41.598
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	168.71	179.37	189.74	199.82	209.60	219.09	228.29	237.19	245.80
			Mz	-0.22	-0.23	-0.24	-0.21	-0.15	-0.05	0.07	0.19	0.31
		1.35-PP+CM+1.05-Q+1.5-V	N	-7.810	-7.810	-7.810	-7.810	-7.810	-7.810	-7.810	-7.810	-7.810
			Vy	0.044	0.044	-0.104	-0.270	-0.436	-0.602	-0.629	-0.629	-0.629
			Vz	-56.132	-54.614	-53.097	-51.579	-50.062	-48.544	-47.026	-45.509	-43.991
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	178.26	189.52	200.48	211.12	221.46	231.48	241.20	250.61	259.71
			Mz	-0.25	-0.26	-0.25	-0.21	-0.14	-0.04	0.09	0.22	0.35
		PP+1.35-CM+1.05-Q+1.5-V	N	-7.821	-7.821	-7.821	-7.821	-7.821	-7.821	-7.821	-7.821	-7.821
			Vy	0.081	0.081	-0.067	-0.233	-0.399	-0.565	-0.592	-0.592	-0.592
			Vz	-54.001	-52.532	-51.064	-49.596	-48.128	-46.659	-45.191	-43.723	-42.254
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	171.36	182.19	192.72	202.96	212.90	222.54	231.88	240.92	249.66

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.22	-0.24	-0.24	-0.21	-0.14	-0.05	0.07	0.19	0.31
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-7.811	-7.811	-7.811	-7.811	-7.811	-7.811	-7.811	-7.811	-7.811
			Vy	0.039	0.039	-0.109	-0.275	-0.441	-0.607	-0.634	-0.634	-0.634
			Vz	-56.970	-55.430	-53.889	-52.349	-50.809	-49.268	-47.728	-46.188	-44.647
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	180.91	192.34	203.45	214.26	224.75	234.92	244.79	254.34	263.58
			Mz	-0.25	-0.26	-0.25	-0.21	-0.14	-0.03	0.09	0.22	0.35
		PP+CM+1.5-Q+0.9-V	N	-4.666	-4.666	-4.666	-4.666	-4.666	-4.666	-4.666	-4.666	-4.666
			Vy	-0.202	-0.202	-0.291	-0.391	-0.490	-0.590	-0.606	-0.606	-0.606
			Vz	-71.284	-69.335	-67.386	-65.437	-63.489	-61.540	-59.591	-57.642	-55.693
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	226.11	240.41	254.32	267.82	280.93	293.65	305.96	317.88	329.41
			Mz	-0.30	-0.26	-0.21	-0.14	-0.05	0.06	0.18	0.30	0.43
		1.35-PP+CM+1.5-Q+0.9-V	N	-4.656	-4.656	-4.656	-4.656	-4.656	-4.656	-4.656	-4.656	-4.656
			Vy	-0.244	-0.244	-0.333	-0.433	-0.532	-0.632	-0.648	-0.648	-0.648
			Vz	-74.253	-72.233	-70.212	-68.191	-66.170	-64.149	-62.128	-60.107	-58.086
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	235.67	250.56	265.05	279.12	292.78	306.04	318.88	331.31	343.32
			Mz	-0.33	-0.28	-0.22	-0.15	-0.05	0.07	0.20	0.33	0.46
		PP+1.35-CM+1.5-Q+0.9-V	N	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667
			Vy	-0.207	-0.207	-0.296	-0.395	-0.495	-0.595	-0.611	-0.611	-0.611
			Vz	-72.122	-70.151	-68.179	-66.207	-64.236	-62.264	-60.292	-58.321	-56.349
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	228.76	243.23	257.29	270.96	284.22	297.09	309.55	321.61	333.27
			Mz	-0.30	-0.26	-0.21	-0.14	-0.05	0.06	0.18	0.31	0.43
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-4.657	-4.657	-4.657	-4.657	-4.657	-4.657	-4.657	-4.657	-4.657
			Vy	-0.249	-0.249	-0.338	-0.437	-0.537	-0.636	-0.653	-0.653	-0.653
			Vz	-75.092	-73.048	-71.004	-68.961	-66.917	-64.873	-62.829	-60.786	-58.742
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	238.31	253.38	268.03	282.26	296.08	309.48	322.46	335.03	347.19
			Mz	-0.33	-0.28	-0.23	-0.15	-0.05	0.07	0.20	0.34	0.47
		PP+CM+1.5-N	N	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172
			Vy	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572
			Vz	-23.283	-22.814	-22.345	-21.875	-21.406	-20.937	-20.467	-19.998	-19.529
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	76.46	81.14	85.73	90.23	94.63	98.94	103.15	107.26	111.28
			Mz	-0.44	-0.32	-0.21	-0.09	0.02	0.14	0.26	0.37	0.49
		1.35-PP+CM+1.5-N	N	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182
			Vy	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614
			Vz	-26.253	-25.711	-25.170	-24.628	-24.087	-23.546	-23.004	-22.463	-21.921
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	86.01	91.29	96.47	101.53	106.48	111.33	116.06	120.68	125.20
			Mz	-0.47	-0.35	-0.22	-0.10	0.03	0.15	0.28	0.40	0.53
		PP+1.35-CM+1.5-N	N	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
			Vy	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577
			Vz	-24.121	-23.629	-23.137	-22.645	-22.153	-21.661	-21.169	-20.677	-20.185
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	79.10	83.96	88.71	93.37	97.92	102.38	106.74	110.99	115.15
			Mz	-0.44	-0.33	-0.21	-0.09	0.02	0.14	0.26	0.38	0.49
		1.35-PP+1.35-CM+1.5-N	N	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
			Vy	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619
			Vz	-27.091	-26.527	-25.962	-25.398	-24.834	-24.270	-23.706	-23.142	-22.577
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	88.66	94.11	99.45	104.67	109.78	114.77	119.65	124.41	129.06
			Mz	-0.48	-0.35	-0.22	-0.10	0.03	0.15	0.28	0.41	0.53
		PP+CM+1.05-Q+1.5-N	N	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
			Vy	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-65.567	-63.923	-62.279	-60.635	-58.991	-57.348	-55.704	-54.060	-52.416
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	210.35	223.52	236.36	248.85	261.02	272.85	284.35	295.51	306.33
			Mz	-0.60	-0.44	-0.27	-0.10	0.06	0.23	0.39	0.56	0.72
		1.35-PP+CM+1.05-Q+1.5-N	N	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
			Vy	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856
			Vz	-68.536	-66.820	-65.104	-63.388	-61.673	-59.957	-58.241	-56.525	-54.809
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	219.91	233.67	247.09	260.15	272.87	285.24	297.26	308.93	320.25
			Mz	-0.63	-0.46	-0.28	-0.11	0.06	0.24	0.41	0.59	0.76
		PP+1.35-CM+1.05-Q+1.5-N	N	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190
			Vy	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819
			Vz	-66.405	-64.738	-63.072	-61.405	-59.739	-58.072	-56.405	-54.739	-53.072
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	213.00	226.34	239.33	251.99	264.31	276.29	287.93	299.23	310.20
			Mz	-0.60	-0.44	-0.27	-0.10	0.06	0.23	0.40	0.56	0.73
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
			Vy	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861
			Vz	-69.374	-67.636	-65.897	-64.158	-62.420	-60.681	-58.942	-57.204	-55.465
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	222.55	236.49	250.07	263.29	276.16	288.68	300.84	312.65	324.11
			Mz	-0.63	-0.46	-0.28	-0.11	0.07	0.24	0.42	0.59	0.77
		PP+CM+0.9-V+1.5-N	N	-4.547	-4.547	-4.547	-4.547	-4.547	-4.547	-4.547	-4.547	-4.547
			Vy	-0.295	-0.295	-0.384	-0.484	-0.584	-0.683	-0.699	-0.699	-0.699
			Vz	-23.283	-22.814	-22.345	-21.875	-21.406	-20.937	-20.467	-19.998	-19.529
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	76.43	81.11	85.71	90.20	94.60	98.91	103.12	107.24	111.25
			Mz	-0.42	-0.36	-0.29	-0.20	-0.09	0.04	0.18	0.32	0.46
		1.35-PP+CM+0.9-V+1.5-N	N	-4.537	-4.537	-4.537	-4.537	-4.537	-4.537	-4.537	-4.537	-4.537
			Vy	-0.337	-0.337	-0.426	-0.526	-0.626	-0.725	-0.741	-0.741	-0.741
			Vz	-26.253	-25.711	-25.170	-24.628	-24.087	-23.546	-23.004	-22.463	-21.921
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	85.98	91.26	96.44	101.50	106.45	111.30	116.03	120.66	125.17
			Mz	-0.45	-0.38	-0.30	-0.21	-0.09	0.05	0.20	0.35	0.50
		PP+1.35-CM+0.9-V+1.5-N	N	-4.548	-4.548	-4.548	-4.548	-4.548	-4.548	-4.548	-4.548	-4.548
			Vy	-0.300	-0.300	-0.389	-0.489	-0.588	-0.688	-0.704	-0.704	-0.704
			Vz	-24.121	-23.629	-23.137	-22.645	-22.153	-21.661	-21.169	-20.677	-20.185
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	79.07	83.93	88.69	93.34	97.90	102.35	106.71	110.96	115.12
			Mz	-0.42	-0.36	-0.29	-0.20	-0.09	0.04	0.18	0.32	0.47
		1.35-PP+1.35-CM+0.9-V+1.5-N	N	-4.538	-4.538	-4.538	-4.538	-4.538	-4.538	-4.538	-4.538	-4.538
			Vy	-0.342	-0.342	-0.431	-0.531	-0.630	-0.730	-0.746	-0.746	-0.746
			Vz	-27.091	-26.527	-25.962	-25.398	-24.834	-24.270	-23.706	-23.142	-22.577
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	88.63	94.08	99.42	104.64	109.75	114.74	119.62	124.38	129.03
			Mz	-0.45	-0.38	-0.30	-0.21	-0.09	0.05	0.20	0.35	0.51
		PP+CM+1.05-Q+0.9-V+1.5-N	N	-4.528	-4.528	-4.528	-4.528	-4.528	-4.528	-4.528	-4.528	-4.528
			Vy	-0.537	-0.537	-0.626	-0.726	-0.825	-0.925	-0.941	-0.941	-0.941
			Vz	-65.567	-63.923	-62.279	-60.635	-58.991	-57.348	-55.704	-54.060	-52.416
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	210.33	223.49	236.33	248.83	260.99	272.82	284.32	295.48	306.31
			Mz	-0.58	-0.47	-0.35	-0.21	-0.05	0.12	0.31	0.51	0.70
		1.35-PP+CM+1.05-Q+0.9-V+1.5-N	N	-4.518	-4.518	-4.518	-4.518	-4.518	-4.518	-4.518	-4.518	-4.518
			Vy	-0.579	-0.579	-0.668	-0.768	-0.867	-0.967	-0.983	-0.983	-0.983
			Vz	-68.536	-66.820	-65.104	-63.388	-61.673	-59.957	-58.241	-56.525	-54.809
			My	219.88	233.64	247.06	260.12	272.84	285.21	297.23	308.90	320.22

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.61	-0.49	-0.36	-0.22	-0.05	0.14	0.33	0.53	0.73
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-4.529	-4.529	-4.529	-4.529	-4.529	-4.529	-4.529	-4.529	-4.529
			Vy	-0.542	-0.542	-0.631	-0.731	-0.830	-0.930	-0.946	-0.946	-0.946
			Vz	-66.405	-64.738	-63.072	-61.405	-59.739	-58.072	-56.405	-54.739	-53.072
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	212.97	226.31	239.31	251.96	264.28	276.26	287.90	299.21	310.17
			Mz	-0.58	-0.47	-0.35	-0.21	-0.05	0.13	0.32	0.51	0.70
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-4.519	-4.519	-4.519	-4.519	-4.519	-4.519	-4.519	-4.519	-4.519
			Vy	-0.584	-0.584	-0.673	-0.773	-0.872	-0.972	-0.988	-0.988	-0.988
			Vz	-69.374	-67.636	-65.897	-64.158	-62.420	-60.681	-58.942	-57.204	-55.465
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	222.53	236.46	250.04	263.26	276.13	288.65	300.82	312.63	324.08
			Mz	-0.61	-0.49	-0.36	-0.22	-0.05	0.14	0.34	0.54	0.74
		PP+CM+1.5·Q+0.75·N	N	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126
			Vy	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698
			Vz	-77.486	-75.438	-73.390	-71.342	-69.294	-67.246	-65.198	-63.150	-61.102
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	246.94	262.49	277.63	292.34	306.64	320.53	334.00	347.05	359.68
			Mz	-0.50	-0.35	-0.21	-0.07	0.07	0.21	0.36	0.50	0.64
		1.35·PP+CM+1.5·Q+0.75·N	N	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
			Vy	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740
			Vz	-80.456	-78.335	-76.215	-74.095	-71.975	-69.855	-67.735	-65.615	-63.495
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	256.49	272.64	288.36	303.64	318.50	332.92	346.91	360.47	373.60
			Mz	-0.53	-0.38	-0.23	-0.08	0.07	0.22	0.38	0.53	0.68
		PP+1.35·CM+1.5·Q+0.75·N	N	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
			Vy	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703
			Vz	-78.324	-76.254	-74.183	-72.112	-70.041	-67.970	-65.900	-63.829	-61.758
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	249.59	265.31	280.60	295.48	309.94	323.97	337.58	350.77	363.55
			Mz	-0.50	-0.36	-0.21	-0.07	0.07	0.21	0.36	0.50	0.64
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135
			Vy	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
			Vz	-81.294	-79.151	-77.008	-74.865	-72.722	-70.579	-68.437	-66.294	-64.151
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	259.14	275.46	291.34	306.78	321.79	336.36	350.50	364.20	377.46
			Mz	-0.53	-0.38	-0.23	-0.08	0.08	0.23	0.38	0.53	0.68
		PP+CM+1.5·V+0.75·N	N	-7.766	-7.766	-7.766	-7.766	-7.766	-7.766	-7.766	-7.766	-7.766
			Vy	0.108	0.108	-0.040	-0.206	-0.372	-0.538	-0.565	-0.565	-0.565
			Vz	-17.081	-16.711	-16.341	-15.971	-15.600	-15.230	-14.860	-14.490	-14.120
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	55.61	59.04	62.41	65.69	68.90	72.04	75.10	78.08	80.99
			Mz	-0.23	-0.25	-0.26	-0.23	-0.18	-0.08	0.03	0.15	0.26
		1.35·PP+CM+1.5·V+0.75·N	N	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756
			Vy	0.067	0.067	-0.082	-0.248	-0.414	-0.580	-0.607	-0.607	-0.607
			Vz	-20.051	-19.608	-19.166	-18.724	-18.282	-17.839	-17.397	-16.955	-16.513
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	65.16	69.19	73.14	76.99	80.75	84.43	88.01	91.50	94.91
			Mz	-0.26	-0.27	-0.27	-0.24	-0.17	-0.07	0.05	0.17	0.30
		PP+1.35·CM+1.5·V+0.75·N	N	-7.767	-7.767	-7.767	-7.767	-7.767	-7.767	-7.767	-7.767	-7.767
			Vy	0.104	0.104	-0.045	-0.211	-0.376	-0.542	-0.569	-0.569	-0.569
			Vz	-17.919	-17.526	-17.133	-16.741	-16.348	-15.955	-15.562	-15.169	-14.776
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	58.26	61.86	65.38	68.83	72.19	75.48	78.68	81.81	84.85
			Mz	-0.23	-0.25	-0.26	-0.23	-0.18	-0.08	0.03	0.15	0.27
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757
			Vy	0.062	0.062	-0.087	-0.252	-0.418	-0.584	-0.611	-0.611	-0.611

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-20.889	-20.424	-19.959	-19.494	-19.029	-18.564	-18.099	-17.634	-17.169
			Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
			My	67.81	72.01	76.12	80.13	84.04	87.87	91.60	95.23	98.77
			Mz	-0.26	-0.28	-0.27	-0.24	-0.17	-0.07	0.05	0.18	0.30
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-7.747	-7.747	-7.747	-7.747	-7.747	-7.747	-7.747	-7.747	-7.747
			Vy	-0.133	-0.133	-0.282	-0.448	-0.614	-0.779	-0.806	-0.806	-0.806
			Vz	-59.365	-57.820	-56.275	-54.731	-53.186	-51.641	-50.097	-48.552	-47.007
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	189.51	201.42	213.03	224.31	235.29	245.95	256.29	266.32	276.04
			Mz	-0.39	-0.36	-0.32	-0.25	-0.14	0.00	0.17	0.33	0.49
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-7.737	-7.737	-7.737	-7.737	-7.737	-7.737	-7.737	-7.737	-7.737
			Vy	-0.175	-0.175	-0.324	-0.490	-0.655	-0.821	-0.848	-0.848	-0.848
			Vz	-62.334	-60.717	-59.101	-57.484	-55.867	-54.250	-52.634	-51.017	-49.400
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	199.06	211.57	223.76	235.61	247.14	258.34	269.21	279.75	289.96
			Mz	-0.42	-0.38	-0.33	-0.25	-0.14	0.01	0.19	0.36	0.53
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-7.748	-7.748	-7.748	-7.748	-7.748	-7.748	-7.748	-7.748	-7.748
			Vy	-0.138	-0.138	-0.286	-0.452	-0.618	-0.784	-0.811	-0.811	-0.811
			Vz	-60.203	-58.635	-57.068	-55.501	-53.933	-52.366	-50.798	-49.231	-47.663
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	192.15	204.24	216.00	227.45	238.58	249.39	259.88	270.05	279.91
			Mz	-0.39	-0.36	-0.32	-0.25	-0.14	0.00	0.17	0.33	0.50
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-7.738	-7.738	-7.738	-7.738	-7.738	-7.738	-7.738	-7.738	-7.738
			Vy	-0.180	-0.180	-0.328	-0.494	-0.660	-0.826	-0.853	-0.853	-0.853
			Vz	-63.172	-61.533	-59.893	-58.254	-56.614	-54.975	-53.335	-51.696	-50.056
			Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
			My	201.71	214.39	226.74	238.75	250.43	261.78	272.79	283.47	293.82
			Mz	-0.42	-0.39	-0.34	-0.25	-0.13	0.02	0.19	0.36	0.54
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-4.593	-4.593	-4.593	-4.593	-4.593	-4.593	-4.593	-4.593	-4.593
			Vy	-0.421	-0.421	-0.510	-0.610	-0.710	-0.809	-0.825	-0.825	-0.825
			Vz	-77.486	-75.438	-73.390	-71.342	-69.294	-67.246	-65.198	-63.150	-61.102
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	246.91	262.46	277.60	292.31	306.62	320.50	333.97	347.02	359.65
			Mz	-0.47	-0.39	-0.29	-0.18	-0.04	0.11	0.28	0.44	0.61
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-4.583	-4.583	-4.583	-4.583	-4.583	-4.583	-4.583	-4.583	-4.583
			Vy	-0.463	-0.463	-0.552	-0.652	-0.752	-0.851	-0.867	-0.867	-0.867
			Vz	-80.456	-78.335	-76.215	-74.095	-71.975	-69.855	-67.735	-65.615	-63.495
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	256.46	272.61	288.33	303.61	318.47	332.89	346.88	360.44	373.57
			Mz	-0.50	-0.41	-0.31	-0.18	-0.04	0.12	0.30	0.47	0.65
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-4.594	-4.594	-4.594	-4.594	-4.594	-4.594	-4.594	-4.594	-4.594
			Vy	-0.426	-0.426	-0.515	-0.615	-0.714	-0.814	-0.830	-0.830	-0.830
			Vz	-78.324	-76.254	-74.183	-72.112	-70.041	-67.970	-65.900	-63.829	-61.758
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	249.56	265.28	280.58	295.45	309.91	323.94	337.55	350.75	363.52
			Mz	-0.48	-0.39	-0.29	-0.18	-0.04	0.11	0.28	0.45	0.62
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-4.584	-4.584	-4.584	-4.584	-4.584	-4.584	-4.584	-4.584	-4.584
			Vy	-0.468	-0.468	-0.557	-0.657	-0.756	-0.856	-0.872	-0.872	-0.872
			Vz	-81.294	-79.151	-77.008	-74.865	-72.722	-70.579	-68.437	-66.294	-64.151
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	259.11	275.43	291.31	306.75	321.76	336.33	350.47	364.17	377.43
			Mz	-0.51	-0.41	-0.31	-0.18	-0.04	0.12	0.30	0.48	0.65

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N9/N11	Madera	PP+CM	N	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
			Vy	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
			Vz	-8.445	-8.174	-7.903	-7.632	-7.361	-7.089	-6.818	-6.547	-6.276
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	50.79	52.48	54.12	55.70	57.22	58.69	60.11	61.47	62.77
			Mz	0.12	0.09	0.06	0.02	-0.01	-0.04	-0.07	-0.10	-0.13
		1.35-PP+CM	N	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
			Vy	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
			Vz	-10.744	-10.401	-10.058	-9.715	-9.372	-9.028	-8.685	-8.342	-7.999
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	64.71	66.86	68.94	70.95	72.89	74.76	76.56	78.29	79.96
			Mz	0.16	0.12	0.07	0.03	-0.01	-0.05	-0.09	-0.13	-0.18
		PP+1.35-CM	N	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
			Vy	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
			Vz	-9.101	-8.807	-8.513	-8.219	-7.926	-7.632	-7.338	-7.044	-6.750
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	54.66	56.48	58.24	59.94	61.58	63.16	64.69	66.15	67.55
			Mz	0.12	0.09	0.06	0.03	-0.01	-0.04	-0.07	-0.11	-0.14
		1.35-PP+1.35-CM	N	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
			Vy	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
			Vz	-11.400	-11.034	-10.668	-10.303	-9.937	-9.571	-9.205	-8.839	-8.473
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	68.57	70.85	73.06	75.19	77.25	79.23	81.14	82.98	84.74
			Mz	0.16	0.12	0.08	0.03	-0.01	-0.05	-0.10	-0.14	-0.18
		PP+CM+1.5-Q	N	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192
			Vy	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615
			Vz	-55.429	-53.480	-51.532	-49.583	-47.634	-45.685	-43.736	-41.787	-39.838
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	329.45	340.52	351.20	361.48	371.37	380.86	389.95	398.65	406.95
			Mz	0.45	0.33	0.20	0.08	-0.05	-0.17	-0.30	-0.42	-0.55
		1.35-PP+CM+1.5-Q	N	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
			Vy	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
			Vz	-57.729	-55.708	-53.687	-51.666	-49.645	-47.624	-45.603	-43.582	-41.561
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	343.36	354.90	366.02	376.73	387.04	396.93	406.41	415.48	424.13
			Mz	0.49	0.36	0.22	0.09	-0.05	-0.18	-0.32	-0.45	-0.59
		PP+1.35-CM+1.5-Q	N	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195
			Vy	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
			Vz	-56.086	-54.114	-52.142	-50.171	-48.199	-46.227	-44.256	-42.284	-40.312
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	333.31	344.52	355.32	365.72	375.73	385.33	394.53	403.33	411.73
			Mz	0.46	0.33	0.21	0.08	-0.05	-0.17	-0.30	-0.43	-0.55
		1.35-PP+1.35-CM+1.5-Q	N	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
			Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
			Vz	-58.385	-56.341	-54.297	-52.254	-50.210	-48.166	-46.123	-44.079	-42.035
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	347.22	358.89	370.14	380.98	391.40	401.40	410.99	420.16	428.92
			Mz	0.50	0.36	0.22	0.09	-0.05	-0.19	-0.32	-0.46	-0.59
		PP+CM+1.5-V	N	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119
			Vy	0.613	0.613	0.464	0.298	0.132	-0.034	-0.061	-0.061	-0.061
			Vz	-8.445	-8.174	-7.903	-7.632	-7.361	-7.089	-6.818	-6.547	-6.276
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	50.83	52.52	54.15	55.73	57.26	58.73	60.14	61.50	62.80
			Mz	0.13	0.00	-0.11	-0.19	-0.23	-0.24	-0.23	-0.22	-0.20
		1.35-PP+CM+1.5-V	N	-10.099	-10.099	-10.099	-10.099	-10.099	-10.099	-10.099	-10.099	-10.099
			Vy	0.661	0.661	0.513	0.347	0.181	0.015	-0.012	-0.012	-0.012
			Vz	-10.744	-10.401	-10.058	-9.715	-9.372	-9.028	-8.685	-8.342	-7.999

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	64.74	66.89	68.97	70.98	72.92	74.80	76.60	78.33	79.99
			Mz	0.16	0.03	-0.09	-0.18	-0.23	-0.25	-0.25	-0.25	-0.25
		PP+1.35·CM+1.5·V	N	-10.116	-10.116	-10.116	-10.116	-10.116	-10.116	-10.116	-10.116	-10.116
			Vy	0.619	0.619	0.471	0.305	0.139	-0.027	-0.054	-0.054	-0.054
			Vz	-9.101	-8.807	-8.513	-8.219	-7.926	-7.632	-7.338	-7.044	-6.750
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	54.69	56.51	58.27	59.97	61.62	63.20	64.72	66.18	67.59
			Mz	0.13	0.00	-0.11	-0.19	-0.23	-0.24	-0.23	-0.22	-0.21
		1.35·PP+1.35·CM+1.5·V	N	-10.097	-10.097	-10.097	-10.097	-10.097	-10.097	-10.097	-10.097	-10.097
			Vy	0.667	0.667	0.519	0.353	0.187	0.021	-0.006	-0.006	-0.006
			Vz	-11.400	-11.034	-10.668	-10.303	-9.937	-9.571	-9.205	-8.839	-8.473
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	68.60	70.89	73.09	75.23	77.28	79.27	81.18	83.01	84.77
			Mz	0.17	0.03	-0.09	-0.18	-0.23	-0.25	-0.25	-0.25	-0.25
		PP+CM+1.05·Q+1.5·V	N	-10.029	-10.029	-10.029	-10.029	-10.029	-10.029	-10.029	-10.029	-10.029
			Vy	0.934	0.934	0.786	0.620	0.454	0.288	0.261	0.261	0.261
			Vz	-41.334	-39.888	-38.443	-36.997	-35.552	-34.106	-32.661	-31.215	-29.770
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	245.88	254.14	262.11	269.78	277.16	284.24	291.03	297.53	303.73
			Mz	0.36	0.17	-0.01	-0.15	-0.26	-0.33	-0.39	-0.44	-0.49
		1.35·PP+CM+1.05·Q+1.5·V	N	-10.010	-10.010	-10.010	-10.010	-10.010	-10.010	-10.010	-10.010	-10.010
			Vy	0.983	0.983	0.834	0.668	0.502	0.336	0.309	0.309	0.309
			Vz	-43.633	-42.116	-40.598	-39.080	-37.563	-36.045	-34.528	-33.010	-31.492
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	259.80	268.52	276.93	285.03	292.83	300.31	307.49	314.35	320.91
			Mz	0.40	0.20	0.01	-0.14	-0.26	-0.35	-0.41	-0.47	-0.53
		PP+1.35·CM+1.05·Q+1.5·V	N	-10.027	-10.027	-10.027	-10.027	-10.027	-10.027	-10.027	-10.027	-10.027
			Vy	0.941	0.941	0.792	0.626	0.460	0.294	0.267	0.267	0.267
			Vz	-41.990	-40.522	-39.054	-37.585	-36.117	-34.649	-33.180	-31.712	-30.244
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	249.75	258.14	266.23	274.02	281.52	288.71	295.61	302.21	308.51
			Mz	0.36	0.17	0.00	-0.15	-0.26	-0.34	-0.39	-0.44	-0.50
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-10.007	-10.007	-10.007	-10.007	-10.007	-10.007	-10.007	-10.007	-10.007
			Vy	0.989	0.989	0.841	0.675	0.509	0.343	0.316	0.316	0.316
			Vz	-44.289	-42.749	-41.209	-39.668	-38.128	-36.588	-35.047	-33.507	-31.966
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	263.66	272.51	281.05	289.27	297.18	304.78	312.07	319.04	325.70
			Mz	0.40	0.20	0.01	-0.14	-0.26	-0.35	-0.41	-0.48	-0.54
		PP+CM+1.5·Q+0.9·V	N	-5.918	-5.918	-5.918	-5.918	-5.918	-5.918	-5.918	-5.918	-5.918
			Vy	0.889	0.889	0.800	0.701	0.601	0.502	0.485	0.485	0.485
			Vz	-55.429	-53.480	-51.532	-49.583	-47.634	-45.685	-43.736	-41.787	-39.838
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	329.47	340.54	351.22	361.50	371.39	380.88	389.97	398.67	406.97
			Mz	0.46	0.28	0.10	-0.05	-0.18	-0.29	-0.39	-0.49	-0.59
		1.35·PP+CM+1.5·Q+0.9·V	N	-5.898	-5.898	-5.898	-5.898	-5.898	-5.898	-5.898	-5.898	-5.898
			Vy	0.938	0.938	0.849	0.749	0.650	0.550	0.534	0.534	0.534
			Vz	-57.729	-55.708	-53.687	-51.666	-49.645	-47.624	-45.603	-43.582	-41.561
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	343.38	354.92	366.04	376.75	387.06	396.95	406.43	415.50	424.15
			Mz	0.50	0.30	0.12	-0.04	-0.18	-0.30	-0.41	-0.52	-0.63
		PP+1.35·CM+1.5·Q+0.9·V	N	-5.915	-5.915	-5.915	-5.915	-5.915	-5.915	-5.915	-5.915	-5.915
			Vy	0.896	0.896	0.807	0.707	0.608	0.508	0.492	0.492	0.492
			Vz	-56.086	-54.114	-52.142	-50.171	-48.199	-46.227	-44.256	-42.284	-40.312
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	333.33	344.54	355.34	365.74	375.75	385.35	394.55	403.35	411.75
			Mz	0.46	0.28	0.11	-0.05	-0.18	-0.29	-0.39	-0.49	-0.59

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-5.895	-5.895	-5.895	-5.895	-5.895	-5.895	-5.895	-5.895	-5.895
			Vy	0.944	0.944	0.855	0.755	0.656	0.556	0.540	0.540	0.540
			Vz	-58.385	-56.341	-54.297	-52.254	-50.210	-48.166	-46.123	-44.079	-42.035
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	347.24	358.91	370.16	381.00	391.42	401.42	411.01	420.18	428.94
			Mz	0.50	0.31	0.12	-0.04	-0.18	-0.31	-0.42	-0.53	-0.64
		PP+CM+1.5·N	N	0.298	0.298	0.298	0.298	0.298	0.298	0.298	0.298	0.298
			Vy	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618
			Vz	-17.947	-17.477	-17.008	-16.539	-16.069	-15.600	-15.131	-14.661	-14.192
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	111.28	114.88	118.39	121.80	125.12	128.34	131.46	134.49	137.43
			Mz	0.49	0.36	0.24	0.11	-0.01	-0.14	-0.27	-0.39	-0.52
		1.35·PP+CM+1.5·N	N	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318
			Vy	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
			Vz	-20.246	-19.704	-19.163	-18.622	-18.080	-17.539	-16.998	-16.456	-15.915
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	125.20	129.26	133.21	137.05	140.79	144.41	147.92	151.32	154.61
			Mz	0.53	0.39	0.25	0.12	-0.02	-0.15	-0.29	-0.42	-0.56
		PP+1.35·CM+1.5·N	N	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301
			Vy	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624
			Vz	-18.603	-18.111	-17.619	-17.127	-16.634	-16.142	-15.650	-15.158	-14.666
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	115.15	118.88	122.51	126.05	129.48	132.81	136.04	139.18	142.21
			Mz	0.49	0.37	0.24	0.11	-0.02	-0.14	-0.27	-0.40	-0.52
		1.35·PP+1.35·CM+1.5·N	N	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321
			Vy	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
			Vz	-20.902	-20.338	-19.774	-19.210	-18.645	-18.081	-17.517	-16.953	-16.389
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	129.06	133.25	137.33	141.30	145.15	148.88	152.50	156.01	159.40
			Mz	0.53	0.39	0.26	0.12	-0.02	-0.15	-0.29	-0.43	-0.56
		PP+CM+1.05·Q+1.5·N	N	0.388	0.388	0.388	0.388	0.388	0.388	0.388	0.388	0.388
			Vy	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940
			Vz	-50.836	-49.192	-47.548	-45.904	-44.261	-42.617	-40.973	-39.329	-37.685
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	306.34	316.51	326.35	335.85	345.02	353.85	362.35	370.52	378.35
			Mz	0.72	0.53	0.34	0.15	-0.04	-0.23	-0.42	-0.62	-0.81
		1.35·PP+CM+1.05·Q+1.5·N	N	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408
			Vy	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988
			Vz	-53.135	-51.419	-49.703	-47.987	-46.272	-44.556	-42.840	-41.124	-39.408
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	320.25	330.89	341.17	351.10	360.69	369.92	378.81	387.35	395.54
			Mz	0.76	0.56	0.36	0.16	-0.04	-0.24	-0.45	-0.65	-0.85
		PP+1.35·CM+1.05·Q+1.5·N	N	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391
			Vy	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946
			Vz	-51.492	-49.826	-48.159	-46.492	-44.826	-43.159	-41.493	-39.826	-38.159
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	310.20	320.51	330.47	340.09	349.38	358.33	366.93	375.20	383.13
			Mz	0.73	0.53	0.34	0.15	-0.04	-0.23	-0.43	-0.62	-0.81
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410
			Vy	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994
			Vz	-53.791	-52.053	-50.314	-48.575	-46.837	-45.098	-43.359	-41.621	-39.882
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	324.12	334.88	345.29	355.35	365.05	374.40	383.39	392.03	400.32
			Mz	0.76	0.56	0.36	0.16	-0.04	-0.25	-0.45	-0.65	-0.85
		PP+CM+0.9·V+1.5·N	N	-5.812	-5.812	-5.812	-5.812	-5.812	-5.812	-5.812	-5.812	-5.812
			Vy	0.892	0.892	0.803	0.704	0.604	0.504	0.488	0.488	0.488
			Vz	-17.947	-17.477	-17.008	-16.539	-16.069	-15.600	-15.131	-14.661	-14.192

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	111.30	114.90	118.41	121.82	125.14	128.36	131.48	134.51	137.45
			Mz	0.49	0.31	0.14	-0.02	-0.15	-0.26	-0.36	-0.46	-0.56
		1.35·PP+CM+0.9·V+1.5·N	N	-5.792	-5.792	-5.792	-5.792	-5.792	-5.792	-5.792	-5.792	-5.792
			Vy	0.940	0.940	0.851	0.752	0.652	0.553	0.536	0.536	0.536
			Vz	-20.246	-19.704	-19.163	-18.622	-18.080	-17.539	-16.998	-16.456	-15.915
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	125.22	129.28	133.23	137.07	140.81	144.43	147.94	151.34	154.63
			Mz	0.53	0.34	0.15	-0.01	-0.15	-0.27	-0.38	-0.49	-0.60
		PP+1.35·CM+0.9·V+1.5·N	N	-5.809	-5.809	-5.809	-5.809	-5.809	-5.809	-5.809	-5.809	-5.809
			Vy	0.898	0.898	0.809	0.710	0.610	0.511	0.494	0.494	0.494
			Vz	-18.603	-18.111	-17.619	-17.127	-16.634	-16.142	-15.650	-15.158	-14.666
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	115.17	118.90	122.53	126.06	129.50	132.83	136.06	139.20	142.23
			Mz	0.50	0.31	0.14	-0.02	-0.15	-0.26	-0.36	-0.46	-0.57
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-5.789	-5.789	-5.789	-5.789	-5.789	-5.789	-5.789	-5.789	-5.789
			Vy	0.947	0.947	0.858	0.758	0.659	0.559	0.543	0.543	0.543
			Vz	-20.902	-20.338	-19.774	-19.210	-18.645	-18.081	-17.517	-16.953	-16.389
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	129.08	133.27	137.35	141.32	145.17	148.90	152.52	156.03	159.42
			Mz	0.53	0.34	0.16	-0.01	-0.15	-0.28	-0.39	-0.50	-0.61
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-5.722	-5.722	-5.722	-5.722	-5.722	-5.722	-5.722	-5.722	-5.722
			Vy	1.214	1.214	1.125	1.025	0.926	0.826	0.810	0.810	0.810
			Vz	-50.836	-49.192	-47.548	-45.904	-44.261	-42.617	-40.973	-39.329	-37.685
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	306.36	316.53	326.37	335.87	345.04	353.87	362.37	370.54	378.37
			Mz	0.73	0.48	0.24	0.02	-0.18	-0.35	-0.52	-0.68	-0.85
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-5.702	-5.702	-5.702	-5.702	-5.702	-5.702	-5.702	-5.702	-5.702
			Vy	1.262	1.262	1.173	1.074	0.974	0.874	0.858	0.858	0.858
			Vz	-53.135	-51.419	-49.703	-47.987	-46.272	-44.556	-42.840	-41.124	-39.408
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	320.27	330.91	341.19	351.12	360.71	369.94	378.83	387.37	395.56
			Mz	0.76	0.51	0.26	0.03	-0.18	-0.37	-0.54	-0.72	-0.89
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-5.719	-5.719	-5.719	-5.719	-5.719	-5.719	-5.719	-5.719	-5.719
			Vy	1.220	1.220	1.131	1.032	0.932	0.832	0.816	0.816	0.816
			Vz	-51.492	-49.826	-48.159	-46.492	-44.826	-43.159	-41.493	-39.826	-38.159
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	310.22	320.52	330.49	340.11	349.40	358.35	366.95	375.22	383.15
			Mz	0.73	0.48	0.24	0.02	-0.18	-0.36	-0.52	-0.69	-0.85
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-5.700	-5.700	-5.700	-5.700	-5.700	-5.700	-5.700	-5.700	-5.700
			Vy	1.268	1.268	1.179	1.080	0.980	0.881	0.864	0.864	0.864
			Vz	-53.791	-52.053	-50.314	-48.575	-46.837	-45.098	-43.359	-41.621	-39.882
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	324.14	334.90	345.31	355.37	365.07	374.42	383.41	392.05	400.34
			Mz	0.77	0.51	0.26	0.03	-0.18	-0.37	-0.54	-0.72	-0.90
		PP+CM+1.5·Q+0.75·N	N	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
			Vy	0.846	0.846	0.846	0.846	0.846	0.846	0.846	0.846	0.846
			Vz	-60.180	-58.132	-56.084	-54.036	-51.988	-49.940	-47.892	-45.844	-43.796
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	359.69	371.72	383.34	394.53	405.32	415.68	425.63	435.16	444.28
			Mz	0.64	0.47	0.29	0.12	-0.05	-0.22	-0.39	-0.57	-0.74
		1.35·PP+CM+1.5·Q+0.75·N	N	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
			Vy	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895
			Vz	-62.480	-60.359	-58.239	-56.119	-53.999	-51.879	-49.759	-47.639	-45.519
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	373.61	386.10	398.16	409.79	420.98	431.75	442.09	451.99	461.46
			Mz	0.68	0.49	0.31	0.13	-0.05	-0.23	-0.42	-0.60	-0.78

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+1.35·CM+1.5·Q+0.75·N	N	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312
			Vy	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
			Vz	-60.837	-58.766	-56.695	-54.624	-52.553	-50.483	-48.412	-46.341	-44.270
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	363.55	375.72	387.46	398.78	409.68	420.15	430.21	439.84	449.06
			Mz	0.64	0.47	0.30	0.12	-0.05	-0.22	-0.40	-0.57	-0.74
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
			Vy	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901
			Vz	-63.136	-60.993	-58.850	-56.707	-54.564	-52.421	-50.279	-48.136	-45.993
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	377.47	390.09	402.28	414.03	425.34	436.22	446.67	456.67	466.25
			Mz	0.68	0.50	0.31	0.13	-0.05	-0.24	-0.42	-0.60	-0.79
		PP+CM+1.5·V+0.75·N	N	-10.002	-10.002	-10.002	-10.002	-10.002	-10.002	-10.002	-10.002	-10.002
			Vy	0.844	0.844	0.695	0.529	0.364	0.198	0.171	0.171	0.171
			Vz	-13.196	-12.825	-12.455	-12.085	-11.715	-11.345	-10.975	-10.604	-10.234
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	81.07	83.72	86.29	88.78	91.20	93.55	95.82	98.01	100.13
			Mz	0.31	0.14	-0.02	-0.14	-0.23	-0.29	-0.33	-0.36	-0.40
		1.35·PP+CM+1.5·V+0.75·N	N	-9.982	-9.982	-9.982	-9.982	-9.982	-9.982	-9.982	-9.982	-9.982
			Vy	0.892	0.892	0.744	0.578	0.412	0.246	0.219	0.219	0.219
			Vz	-15.495	-15.053	-14.610	-14.168	-13.726	-13.284	-12.841	-12.399	-11.957
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	94.99	98.09	101.11	104.04	106.87	109.62	112.28	114.84	117.32
			Mz	0.35	0.17	0.00	-0.14	-0.24	-0.30	-0.35	-0.39	-0.44
		PP+1.35·CM+1.5·V+0.75·N	N	-9.999	-9.999	-9.999	-9.999	-9.999	-9.999	-9.999	-9.999	-9.999
			Vy	0.850	0.850	0.702	0.536	0.370	0.204	0.177	0.177	0.177
			Vz	-13.852	-13.459	-13.066	-12.673	-12.280	-11.887	-11.494	-11.101	-10.708
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	84.93	87.71	90.41	93.03	95.56	98.02	100.40	102.70	104.91
			Mz	0.32	0.14	-0.02	-0.14	-0.24	-0.29	-0.33	-0.37	-0.40
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-9.980	-9.980	-9.980	-9.980	-9.980	-9.980	-9.980	-9.980	-9.980
			Vy	0.898	0.898	0.750	0.584	0.418	0.252	0.225	0.225	0.225
			Vz	-16.151	-15.686	-15.221	-14.756	-14.291	-13.826	-13.361	-12.896	-12.431
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	98.85	102.09	105.23	108.28	111.23	114.09	116.86	119.53	122.10
			Mz	0.35	0.17	0.00	-0.14	-0.24	-0.31	-0.35	-0.40	-0.44
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-9.912	-9.912	-9.912	-9.912	-9.912	-9.912	-9.912	-9.912	-9.912
			Vy	1.165	1.165	1.017	0.851	0.685	0.519	0.492	0.492	0.492
			Vz	-46.085	-44.540	-42.996	-41.451	-39.906	-38.362	-36.817	-35.272	-33.728
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	276.13	285.34	294.24	302.83	311.10	319.06	326.71	334.04	341.06
			Mz	0.54	0.31	0.08	-0.11	-0.26	-0.38	-0.49	-0.59	-0.69
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-9.893	-9.893	-9.893	-9.893	-9.893	-9.893	-9.893	-9.893	-9.893
			Vy	1.214	1.214	1.065	0.899	0.733	0.568	0.540	0.540	0.540
			Vz	-48.384	-46.767	-45.151	-43.534	-41.917	-40.300	-38.684	-37.067	-35.450
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	290.04	299.72	309.07	318.08	326.77	335.13	343.17	350.87	358.24
			Mz	0.58	0.34	0.10	-0.10	-0.26	-0.40	-0.51	-0.62	-0.73
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-9.909	-9.909	-9.909	-9.909	-9.909	-9.909	-9.909	-9.909	-9.909
			Vy	1.172	1.172	1.023	0.857	0.691	0.526	0.498	0.498	0.498
			Vz	-46.741	-45.174	-43.606	-42.039	-40.471	-38.904	-37.337	-35.769	-34.202
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	279.99	289.34	298.37	307.07	315.46	323.54	331.29	338.72	345.84
			Mz	0.55	0.31	0.09	-0.11	-0.26	-0.39	-0.49	-0.59	-0.69
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-9.890	-9.890	-9.890	-9.890	-9.890	-9.890	-9.890	-9.890	-9.890
			Vy	1.220	1.220	1.072	0.906	0.740	0.574	0.547	0.547	0.547
			Vz	-49.040	-47.401	-45.761	-44.122	-42.482	-40.843	-39.203	-37.564	-35.924

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	293.91	303.71	313.19	322.33	331.13	339.61	347.75	355.55	363.02
			Mz	0.59	0.34	0.10	-0.10	-0.26	-0.40	-0.51	-0.62	-0.73
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-5.801	-5.801	-5.801	-5.801	-5.801	-5.801	-5.801	-5.801	-5.801
			Vy	1.121	1.121	1.032	0.932	0.832	0.733	0.717	0.717	0.717
			Vz	-60.180	-58.132	-56.084	-54.036	-51.988	-49.940	-47.892	-45.844	-43.796
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	359.71	371.74	383.36	394.55	405.34	415.70	425.65	435.18	444.30
			Mz	0.64	0.41	0.19	0.00	-0.18	-0.34	-0.49	-0.64	-0.78
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-5.781	-5.781	-5.781	-5.781	-5.781	-5.781	-5.781	-5.781	-5.781
			Vy	1.169	1.169	1.080	0.980	0.881	0.781	0.765	0.765	0.765
			Vz	-62.480	-60.359	-58.239	-56.119	-53.999	-51.879	-49.759	-47.639	-45.519
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	373.63	386.12	398.18	409.81	421.00	431.77	442.11	452.01	461.48
			Mz	0.68	0.44	0.21	0.00	-0.19	-0.36	-0.51	-0.67	-0.82
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-5.798	-5.798	-5.798	-5.798	-5.798	-5.798	-5.798	-5.798	-5.798
			Vy	1.127	1.127	1.038	0.938	0.839	0.739	0.723	0.723	0.723
			Vz	-60.837	-58.766	-56.695	-54.624	-52.553	-50.483	-48.412	-46.341	-44.270
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	363.57	375.74	387.48	398.80	409.69	420.17	430.23	439.86	449.08
			Mz	0.65	0.42	0.20	0.00	-0.18	-0.35	-0.49	-0.64	-0.79
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-5.778	-5.778	-5.778	-5.778	-5.778	-5.778	-5.778	-5.778	-5.778
			Vy	1.175	1.175	1.086	0.986	0.887	0.787	0.771	0.771	0.771
			Vz	-63.136	-60.993	-58.850	-56.707	-54.564	-52.421	-50.279	-48.136	-45.993
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	377.49	390.11	402.30	414.05	425.36	436.24	446.69	456.69	466.26
			Mz	0.68	0.45	0.21	0.00	-0.19	-0.36	-0.51	-0.67	-0.83

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N11/N13	Madera	PP+CM	N	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
			Vy	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
			Vz	-6.011	-5.734	-5.456	-5.179	-4.902	-4.625	-4.348	-4.071	-3.794
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	62.77	63.97	65.10	66.18	67.21	68.18	69.09	69.95	70.75
			Mz	-0.13	-0.10	-0.06	-0.03	0.01	0.04	0.07	0.11	0.14
		1.35·PP+CM	N	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
			Vy	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224
			Vz	-7.640	-7.291	-6.941	-6.592	-6.243	-5.894	-5.545	-5.195	-4.846
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	79.96	81.48	82.92	84.30	85.61	86.84	88.00	89.09	90.12
			Mz	-0.18	-0.13	-0.08	-0.04	0.01	0.05	0.10	0.14	0.19
		PP+1.35·CM	N	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
			Vy	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179
			Vz	-6.485	-6.183	-5.881	-5.579	-5.277	-4.975	-4.673	-4.371	-4.069
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	67.55	68.84	70.07	71.23	72.34	73.38	74.36	75.28	76.14
			Mz	-0.14	-0.10	-0.07	-0.03	0.01	0.04	0.08	0.11	0.15
		1.35·PP+1.35·CM	N	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
			Vy	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232
			Vz	-8.114	-7.740	-7.366	-6.992	-6.618	-6.244	-5.870	-5.496	-5.121
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	84.74	86.35	87.89	89.35	90.73	92.04	93.27	94.43	95.51
			Mz	-0.18	-0.13	-0.09	-0.04	0.01	0.05	0.10	0.15	0.20
		PP+CM+1.5·Q	N	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714
			Vz	-39.575	-37.620	-35.665	-33.710	-31.755	-29.800	-27.845	-25.890	-23.935
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	406.96	414.81	422.26	429.31	435.97	442.23	448.09	453.55	458.62
			Mz	-0.55	-0.40	-0.26	-0.11	0.03	0.18	0.32	0.47	0.61
		1.35-PP+CM+1.5-Q	N	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
			Vy	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766
			Vz	-41.204	-39.177	-37.150	-35.123	-33.096	-31.069	-29.042	-27.015	-24.988
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	424.14	432.32	440.08	447.43	454.36	460.89	467.00	472.70	477.99
			Mz	-0.59	-0.43	-0.28	-0.12	0.03	0.19	0.34	0.50	0.66
		PP+1.35-CM+1.5-Q	N	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178
			Vy	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721
			Vz	-40.050	-38.070	-36.090	-34.110	-32.130	-30.150	-28.170	-26.190	-24.211
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	411.74	419.68	427.22	434.36	441.10	447.43	453.36	458.89	464.01
			Mz	-0.55	-0.41	-0.26	-0.11	0.03	0.18	0.33	0.47	0.62
		1.35-PP+1.35-CM+1.5-Q	N	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
			Vy	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774
			Vz	-41.679	-39.627	-37.575	-35.523	-33.471	-31.419	-29.367	-27.315	-25.263
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	428.93	437.19	445.04	452.48	459.49	466.09	472.27	478.04	483.38
			Mz	-0.60	-0.44	-0.28	-0.12	0.03	0.19	0.35	0.51	0.66
		PP+CM+1.5-V	N	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636
			Vy	0.248	0.248	0.100	-0.066	-0.232	-0.398	-0.425	-0.425	-0.425
			Vz	-6.011	-5.734	-5.456	-5.179	-4.902	-4.625	-4.348	-4.071	-3.794
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	62.75	63.95	65.08	66.16	67.19	68.16	69.07	69.93	70.73
			Mz	-0.17	-0.22	-0.26	-0.26	-0.23	-0.17	-0.08	0.01	0.09
		1.35-PP+CM+1.5-V	N	-11.613	-11.613	-11.613	-11.613	-11.613	-11.613	-11.613	-11.613	-11.613
			Vy	0.195	0.195	0.047	-0.119	-0.285	-0.451	-0.478	-0.478	-0.478
			Vz	-7.640	-7.291	-6.941	-6.592	-6.243	-5.894	-5.545	-5.195	-4.846
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	79.94	81.46	82.90	84.28	85.59	86.82	87.98	89.08	90.10
			Mz	-0.21	-0.25	-0.28	-0.27	-0.23	-0.15	-0.06	0.04	0.14
		PP+1.35-CM+1.5-V	N	-11.635	-11.635	-11.635	-11.635	-11.635	-11.635	-11.635	-11.635	-11.635
			Vy	0.240	0.240	0.092	-0.074	-0.240	-0.406	-0.433	-0.433	-0.433
			Vz	-6.485	-6.183	-5.881	-5.579	-5.277	-4.975	-4.673	-4.371	-4.069
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	67.53	68.82	70.05	71.21	72.32	73.36	74.34	75.26	76.12
			Mz	-0.18	-0.23	-0.26	-0.26	-0.23	-0.17	-0.08	0.01	0.10
		1.35-PP+1.35-CM+1.5-V	N	-11.612	-11.612	-11.612	-11.612	-11.612	-11.612	-11.612	-11.612	-11.612
			Vy	0.188	0.188	0.039	-0.127	-0.292	-0.458	-0.485	-0.485	-0.485
			Vz	-8.114	-7.740	-7.366	-6.992	-6.618	-6.244	-5.870	-5.496	-5.121
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	84.72	86.33	87.87	89.33	90.71	92.02	93.25	94.41	95.49
			Mz	-0.22	-0.26	-0.28	-0.27	-0.23	-0.15	-0.05	0.04	0.14
		PP+CM+1.05-Q+1.5-V	N	-11.559	-11.559	-11.559	-11.559	-11.559	-11.559	-11.559	-11.559	-11.559
			Vy	-0.132	-0.132	-0.280	-0.446	-0.612	-0.778	-0.805	-0.805	-0.805
			Vz	-29.506	-28.054	-26.603	-25.151	-23.699	-22.248	-20.796	-19.344	-17.893
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	303.68	309.53	315.09	320.35	325.32	329.99	334.37	338.45	342.24
			Mz	-0.46	-0.43	-0.39	-0.32	-0.21	-0.07	0.09	0.26	0.42
		1.35-PP+CM+1.05-Q+1.5-V	N	-11.536	-11.536	-11.536	-11.536	-11.536	-11.536	-11.536	-11.536	-11.536
			Vy	-0.184	-0.184	-0.333	-0.499	-0.665	-0.830	-0.858	-0.858	-0.858
			Vz	-31.135	-29.611	-28.088	-26.564	-25.040	-23.516	-21.993	-20.469	-18.945
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	320.87	327.05	332.91	338.47	343.72	348.66	353.28	357.60	361.61
			Mz	-0.50	-0.46	-0.41	-0.33	-0.21	-0.06	0.11	0.29	0.46
		PP+1.35·CM+1.05·Q+1.5·V	N	-11.558	-11.558	-11.558	-11.558	-11.558	-11.558	-11.558	-11.558	-11.558
			Vy	-0.139	-0.139	-0.287	-0.453	-0.619	-0.785	-0.812	-0.812	-0.812
			Vz	-29.980	-28.504	-27.027	-25.551	-24.074	-22.598	-21.121	-19.645	-18.168
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	308.46	314.41	320.06	325.40	330.45	335.20	339.64	343.79	347.63
			Mz	-0.47	-0.44	-0.40	-0.32	-0.21	-0.07	0.10	0.26	0.43
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-11.535	-11.535	-11.535	-11.535	-11.535	-11.535	-11.535	-11.535	-11.535
			Vy	-0.192	-0.192	-0.340	-0.506	-0.672	-0.838	-0.865	-0.865	-0.865
			Vz	-31.609	-30.061	-28.512	-26.964	-25.415	-23.866	-22.318	-20.769	-19.221
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	325.65	331.92	337.88	343.52	348.85	353.86	358.55	362.93	367.00
			Mz	-0.51	-0.47	-0.42	-0.33	-0.21	-0.06	0.12	0.29	0.47
		PP+CM+1.5·Q+0.9·V	N	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844
			Vy	-0.462	-0.462	-0.551	-0.651	-0.750	-0.850	-0.866	-0.866	-0.866
			Vz	-39.575	-37.620	-35.665	-33.710	-31.755	-29.800	-27.845	-25.890	-23.935
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	406.94	414.79	422.25	429.30	435.96	442.22	448.08	453.54	458.61
			Mz	-0.57	-0.48	-0.37	-0.25	-0.11	0.05	0.23	0.40	0.58
		1.35·PP+CM+1.5·Q+0.9·V	N	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821
			Vy	-0.515	-0.515	-0.604	-0.703	-0.803	-0.902	-0.919	-0.919	-0.919
			Vz	-41.204	-39.177	-37.150	-35.123	-33.096	-31.069	-29.042	-27.015	-24.988
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	424.13	432.31	440.07	447.42	454.35	460.88	466.99	472.69	477.98
			Mz	-0.61	-0.51	-0.39	-0.26	-0.11	0.06	0.25	0.44	0.63
		PP+1.35·CM+1.5·Q+0.9·V	N	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844	-6.844
			Vy	-0.469	-0.469	-0.558	-0.658	-0.757	-0.857	-0.873	-0.873	-0.873
			Vz	-40.050	-38.070	-36.090	-34.110	-32.130	-30.150	-28.170	-26.190	-24.211
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	411.73	419.67	427.21	434.35	441.09	447.42	453.35	458.88	464.00
			Mz	-0.58	-0.48	-0.38	-0.25	-0.11	0.05	0.23	0.41	0.59
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821	-6.821
			Vy	-0.522	-0.522	-0.611	-0.711	-0.810	-0.910	-0.926	-0.926	-0.926
			Vz	-41.679	-39.627	-37.575	-35.523	-33.471	-31.419	-29.367	-27.315	-25.263
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	428.91	437.18	445.03	452.47	459.48	466.08	472.26	478.02	483.37
			Mz	-0.62	-0.51	-0.40	-0.26	-0.11	0.07	0.25	0.44	0.63
		PP+CM+1.5·N	N	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364
			Vy	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653
			Vz	-12.611	-12.135	-11.660	-11.184	-10.709	-10.234	-9.758	-9.283	-8.807
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	137.43	139.95	142.37	144.69	146.92	149.05	151.08	153.02	154.86
			Mz	-0.52	-0.39	-0.25	-0.12	0.01	0.14	0.28	0.41	0.54
		1.35·PP+CM+1.5·N	N	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
			Vy	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705
			Vz	-14.240	-13.692	-13.145	-12.597	-12.050	-11.502	-10.955	-10.407	-9.860
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	154.62	157.46	160.19	162.81	165.31	167.71	169.99	172.16	174.23
			Mz	-0.56	-0.42	-0.27	-0.13	0.01	0.16	0.30	0.44	0.59
		PP+1.35·CM+1.5·N	N	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364
			Vy	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660
			Vz	-13.085	-12.585	-12.084	-11.584	-11.084	-10.584	-10.083	-9.583	-9.083
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	142.22	144.83	147.33	149.74	152.05	154.25	156.35	158.35	160.25
			Mz	-0.53	-0.39	-0.26	-0.12	0.01	0.15	0.28	0.41	0.55
		1.35·PP+1.35·CM+1.5·N	N	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713
			Vz	-14.714	-14.142	-13.570	-12.997	-12.425	-11.852	-11.280	-10.707	-10.135
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	159.40	162.34	165.15	167.86	170.44	172.91	175.26	177.50	179.62
			Mz	-0.57	-0.42	-0.28	-0.13	0.01	0.16	0.30	0.45	0.59
		PP+CM+1.05·Q+1.5·N	N	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
			Vy	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032
			Vz	-36.106	-34.456	-32.806	-31.156	-29.506	-27.856	-26.206	-24.556	-22.906
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	378.36	385.54	392.38	398.88	405.05	410.88	416.38	421.54	426.37
			Mz	-0.81	-0.60	-0.39	-0.18	0.03	0.24	0.45	0.66	0.87
		1.35·PP+CM+1.05·Q+1.5·N	N	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464
			Vy	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085
			Vz	-37.735	-36.013	-34.291	-32.569	-30.847	-29.125	-27.403	-25.681	-23.959
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	395.55	403.05	410.20	417.00	423.45	429.54	435.29	440.69	445.74
			Mz	-0.85	-0.63	-0.41	-0.19	0.03	0.25	0.47	0.69	0.91
		PP+1.35·CM+1.05·Q+1.5·N	N	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
			Vy	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040
			Vz	-36.580	-34.905	-33.231	-31.556	-29.881	-28.206	-26.531	-24.856	-23.182
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	383.14	390.41	397.34	403.93	410.18	416.08	421.65	426.88	431.76
			Mz	-0.82	-0.60	-0.39	-0.18	0.03	0.24	0.45	0.66	0.88
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465
			Vy	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092
			Vz	-38.209	-36.462	-34.716	-32.969	-31.222	-29.475	-27.728	-25.981	-24.234
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	400.33	407.93	415.16	422.05	428.57	434.75	440.56	446.02	451.13
			Mz	-0.86	-0.63	-0.41	-0.19	0.03	0.25	0.48	0.70	0.92
		PP+CM+0.9·V+1.5·N	N	-6.658	-6.658	-6.658	-6.658	-6.658	-6.658	-6.658	-6.658	-6.658
			Vy	-0.401	-0.401	-0.490	-0.590	-0.689	-0.789	-0.805	-0.805	-0.805
			Vz	-12.611	-12.135	-11.660	-11.184	-10.709	-10.234	-9.758	-9.283	-8.807
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	137.42	139.94	142.36	144.68	146.91	149.04	151.07	153.01	154.84
			Mz	-0.54	-0.46	-0.37	-0.26	-0.13	0.02	0.18	0.35	0.51
		1.35·PP+CM+0.9·V+1.5·N	N	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635
			Vy	-0.454	-0.454	-0.543	-0.642	-0.742	-0.841	-0.858	-0.858	-0.858
			Vz	-14.240	-13.692	-13.145	-12.597	-12.050	-11.502	-10.955	-10.407	-9.860
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	154.61	157.45	160.18	162.80	165.30	167.70	169.98	172.15	174.21
			Mz	-0.58	-0.49	-0.39	-0.27	-0.13	0.03	0.21	0.38	0.56
		PP+1.35·CM+0.9·V+1.5·N	N	-6.657	-6.657	-6.657	-6.657	-6.657	-6.657	-6.657	-6.657	-6.657
			Vy	-0.408	-0.408	-0.497	-0.597	-0.697	-0.796	-0.812	-0.812	-0.812
			Vz	-13.085	-12.585	-12.084	-11.584	-11.084	-10.584	-10.083	-9.583	-9.083
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	142.20	144.81	147.32	149.73	152.03	154.24	156.34	158.34	160.24
			Mz	-0.55	-0.46	-0.37	-0.26	-0.13	0.02	0.19	0.35	0.52
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635	-6.635
			Vy	-0.461	-0.461	-0.550	-0.650	-0.749	-0.849	-0.865	-0.865	-0.865
			Vz	-14.714	-14.142	-13.570	-12.997	-12.425	-11.852	-11.280	-10.707	-10.135
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	159.39	162.33	165.14	167.84	170.43	172.90	175.25	177.49	179.61
			Mz	-0.59	-0.49	-0.39	-0.27	-0.13	0.03	0.21	0.39	0.56
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.581	-6.581	-6.581	-6.581	-6.581	-6.581	-6.581	-6.581	-6.581
			Vy	-0.781	-0.781	-0.869	-0.969	-1.069	-1.168	-1.184	-1.184	-1.184
			Vz	-36.106	-34.456	-32.806	-31.156	-29.506	-27.856	-26.206	-24.556	-22.906
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	378.35	385.53	392.37	398.87	405.04	410.87	416.37	421.53	426.36
			Mz	-0.83	-0.67	-0.51	-0.32	-0.11	0.12	0.36	0.60	0.84
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.558	-6.558	-6.558	-6.558	-6.558	-6.558	-6.558	-6.558	-6.558
			Vy	-0.833	-0.833	-0.922	-1.022	-1.121	-1.221	-1.237	-1.237	-1.237
			Vz	-37.735	-36.013	-34.291	-32.569	-30.847	-29.125	-27.403	-25.681	-23.959
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	395.54	403.04	410.19	416.98	423.43	429.53	435.28	440.68	445.73
			Mz	-0.87	-0.70	-0.53	-0.33	-0.11	0.13	0.38	0.63	0.88
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.580	-6.580	-6.580	-6.580	-6.580	-6.580	-6.580	-6.580	-6.580
			Vy	-0.788	-0.788	-0.877	-0.976	-1.076	-1.176	-1.192	-1.192	-1.192
			Vz	-36.580	-34.905	-33.231	-31.556	-29.881	-28.206	-26.531	-24.856	-23.182
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	383.13	390.40	397.33	403.92	410.17	416.07	421.64	426.86	431.75
			Mz	-0.84	-0.68	-0.51	-0.32	-0.11	0.12	0.36	0.60	0.84
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.557	-6.557	-6.557	-6.557	-6.557	-6.557	-6.557	-6.557	-6.557
			Vy	-0.841	-0.841	-0.930	-1.029	-1.129	-1.228	-1.245	-1.245	-1.245
			Vz	-38.209	-36.462	-34.716	-32.969	-31.222	-29.475	-27.728	-25.981	-24.234
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	400.32	407.91	415.15	422.03	428.56	434.73	440.55	446.01	451.12
			Mz	-0.88	-0.71	-0.53	-0.33	-0.11	0.13	0.38	0.64	0.89
		PP+CM+1.5·Q+0.75·N	N	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
			Vy	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954
			Vz	-42.875	-40.821	-38.767	-36.713	-34.659	-32.604	-30.550	-28.496	-26.442
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	444.29	452.80	460.89	468.57	475.82	482.66	489.09	495.09	500.68
			Mz	-0.74	-0.55	-0.35	-0.16	0.03	0.23	0.42	0.62	0.81
		1.35·PP+CM+1.5·Q+0.75·N	N	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349
			Vy	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007
			Vz	-44.504	-42.378	-40.252	-38.126	-35.999	-33.873	-31.747	-29.621	-27.495
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	461.47	470.31	478.71	486.68	494.22	501.32	508.00	514.24	520.05
			Mz	-0.78	-0.58	-0.37	-0.17	0.04	0.24	0.45	0.65	0.86
		PP+1.35·CM+1.5·Q+0.75·N	N	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327
			Vy	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962
			Vz	-43.350	-41.271	-39.191	-37.112	-35.033	-32.954	-30.875	-28.796	-26.717
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	449.07	457.67	465.86	473.62	480.95	487.86	494.36	500.42	506.07
			Mz	-0.75	-0.55	-0.36	-0.16	0.04	0.23	0.43	0.62	0.82
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349
			Vy	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014
			Vz	-44.979	-42.828	-40.677	-38.525	-36.374	-34.223	-32.072	-29.921	-27.770
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	466.26	475.19	483.68	491.73	499.35	506.53	513.27	519.57	525.44
			Mz	-0.79	-0.58	-0.38	-0.17	0.04	0.24	0.45	0.66	0.86
		PP+CM+1.5·V+0.75·N	N	-11.488	-11.488	-11.488	-11.488	-11.488	-11.488	-11.488	-11.488	-11.488
			Vy	0.007	0.007	-0.141	-0.307	-0.473	-0.639	-0.666	-0.666	-0.666
			Vz	-9.311	-8.934	-8.558	-8.182	-7.806	-7.429	-7.053	-6.677	-6.300
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	100.08	101.94	103.72	105.42	107.04	108.59	110.07	111.46	112.78
			Mz	-0.36	-0.36	-0.35	-0.31	-0.23	-0.11	0.02	0.16	0.29
		1.35·PP+CM+1.5·V+0.75·N	N	-11.465	-11.465	-11.465	-11.465	-11.465	-11.465	-11.465	-11.465	-11.465
			Vy	-0.045	-0.045	-0.194	-0.360	-0.526	-0.692	-0.719	-0.719	-0.719
			Vz	-10.940	-10.491	-10.043	-9.595	-9.146	-8.698	-8.250	-7.801	-7.353
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	117.27	119.45	121.54	123.53	125.44	127.25	128.98	130.61	132.15
			Mz	-0.40	-0.40	-0.37	-0.32	-0.23	-0.10	0.04	0.19	0.34
		PP+1.35·CM+1.5·V+0.75·N	N	-11.487	-11.487	-11.487	-11.487	-11.487	-11.487	-11.487	-11.487	-11.487

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.000	0.000	-0.148	-0.314	-0.480	-0.646	-0.673	-0.673	-0.673
			Vz	-9.785	-9.384	-8.983	-8.582	-8.180	-7.779	-7.378	-6.977	-6.576
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	104.86	106.81	108.68	110.47	112.17	113.80	115.34	116.80	118.17
			Mz	-0.37	-0.37	-0.36	-0.31	-0.23	-0.11	0.02	0.16	0.30
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-11.464	-11.464	-11.464	-11.464	-11.464	-11.464	-11.464	-11.464	-11.464
			Vy	-0.053	-0.053	-0.201	-0.367	-0.533	-0.699	-0.726	-0.726	-0.726
			Vz	-11.414	-10.941	-10.468	-9.995	-9.521	-9.048	-8.575	-8.102	-7.628
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	122.05	124.33	126.50	128.58	130.57	132.46	134.25	135.94	137.54
			Mz	-0.41	-0.40	-0.38	-0.32	-0.23	-0.10	0.05	0.19	0.34
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410
			Vy	-0.372	-0.372	-0.520	-0.686	-0.852	-1.018	-1.045	-1.045	-1.045
			Vz	-32.806	-31.255	-29.704	-28.153	-26.603	-25.052	-23.501	-21.950	-20.400
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	341.01	347.53	353.72	359.61	365.18	370.43	375.37	379.99	384.29
			Mz	-0.65	-0.58	-0.49	-0.37	-0.21	-0.02	0.19	0.41	0.62
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-11.388	-11.388	-11.388	-11.388	-11.388	-11.388	-11.388	-11.388	-11.388
			Vy	-0.425	-0.425	-0.573	-0.739	-0.905	-1.071	-1.098	-1.098	-1.098
			Vz	-34.435	-32.812	-31.189	-29.566	-27.944	-26.321	-24.698	-23.075	-21.452
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	358.20	365.04	371.55	377.72	383.57	389.09	394.28	399.14	403.66
			Mz	-0.69	-0.61	-0.51	-0.38	-0.21	-0.01	0.22	0.44	0.66
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410	-11.410
			Vy	-0.380	-0.380	-0.528	-0.694	-0.860	-1.026	-1.053	-1.053	-1.053
			Vz	-33.280	-31.705	-30.129	-28.553	-26.978	-25.402	-23.826	-22.251	-20.675
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	345.79	352.40	358.69	364.66	370.30	375.63	380.64	385.32	389.69
			Mz	-0.66	-0.58	-0.49	-0.37	-0.21	-0.02	0.20	0.41	0.62
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-11.387	-11.387	-11.387	-11.387	-11.387	-11.387	-11.387	-11.387	-11.387
			Vy	-0.432	-0.432	-0.581	-0.747	-0.912	-1.078	-1.105	-1.105	-1.105
			Vz	-34.909	-33.262	-31.614	-29.966	-28.318	-26.671	-25.023	-23.375	-21.727
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	362.98	369.91	376.51	382.77	388.70	394.29	399.55	404.47	409.06
			Mz	-0.70	-0.61	-0.51	-0.38	-0.21	-0.01	0.22	0.44	0.67
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-6.696	-6.696	-6.696	-6.696	-6.696	-6.696	-6.696	-6.696	-6.696
			Vy	-0.703	-0.703	-0.792	-0.891	-0.991	-1.090	-1.106	-1.106	-1.106
			Vz	-42.875	-40.821	-38.767	-36.713	-34.659	-32.604	-30.550	-28.496	-26.442
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	444.27	452.79	460.88	468.55	475.81	482.65	489.07	495.08	500.66
			Mz	-0.76	-0.62	-0.47	-0.30	-0.11	0.10	0.33	0.55	0.78
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-6.673	-6.673	-6.673	-6.673	-6.673	-6.673	-6.673	-6.673	-6.673
			Vy	-0.755	-0.755	-0.844	-0.944	-1.043	-1.143	-1.159	-1.159	-1.159
			Vz	-44.504	-42.378	-40.252	-38.126	-35.999	-33.873	-31.747	-29.621	-27.495
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	461.46	470.30	478.70	486.67	494.21	501.31	507.99	514.23	520.03
			Mz	-0.80	-0.65	-0.49	-0.31	-0.11	0.12	0.35	0.59	0.82
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.695	-6.695	-6.695	-6.695	-6.695	-6.695	-6.695	-6.695	-6.695
			Vy	-0.710	-0.710	-0.799	-0.898	-0.998	-1.098	-1.114	-1.114	-1.114
			Vz	-43.350	-41.271	-39.191	-37.112	-35.033	-32.954	-30.875	-28.796	-26.717
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	449.06	457.66	465.84	473.60	480.94	487.85	494.34	500.41	506.06
			Mz	-0.77	-0.62	-0.47	-0.30	-0.11	0.11	0.33	0.56	0.79
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672
			Vy	-0.763	-0.763	-0.852	-0.951	-1.051	-1.150	-1.167	-1.167	-1.167
			Vz	-44.979	-42.828	-40.677	-38.525	-36.374	-34.223	-32.072	-29.921	-27.770
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	466.24	475.17	483.66	491.72	499.34	506.51	513.26	519.56	525.43
			Mz	-0.81	-0.66	-0.49	-0.31	-0.11	0.12	0.36	0.59	0.83

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N13/N15	Madera	PP+CM	N	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
			Vy	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180
			Vz	-3.528	-3.257	-2.986	-2.715	-2.444	-2.173	-1.902	-1.631	-1.360
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	70.75	71.44	72.07	72.65	73.18	73.65	74.06	74.42	74.72
			Mz	0.14	0.11	0.07	0.03	0.00	-0.04	-0.08	-0.11	-0.15
		1.35·PP+CM	N	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124
			Vy	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235
			Vz	-4.487	-4.144	-3.801	-3.458	-3.115	-2.772	-2.429	-2.086	-1.742
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	90.12	90.99	91.80	92.54	93.21	93.81	94.34	94.79	95.18
			Mz	0.19	0.14	0.09	0.05	0.00	-0.05	-0.10	-0.15	-0.19
		PP+1.35·CM	N	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
			Vy	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188
			Vz	-3.804	-3.510	-3.216	-2.923	-2.629	-2.335	-2.041	-1.747	-1.454
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	76.14	76.88	77.57	78.19	78.76	79.26	79.71	80.09	80.42
			Mz	0.15	0.11	0.07	0.04	0.00	-0.04	-0.08	-0.12	-0.16
		1.35·PP+1.35·CM	N	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126
			Vy	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243
			Vz	-4.763	-4.397	-4.031	-3.665	-3.300	-2.934	-2.568	-2.202	-1.836
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.51	96.44	97.30	98.08	98.79	99.42	99.98	100.47	100.88
			Mz	0.19	0.15	0.10	0.05	0.00	-0.05	-0.10	-0.15	-0.20
		PP+CM+1.5·Q	N	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265
			Vy	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
			Vz	-23.672	-21.723	-19.775	-17.826	-15.877	-13.928	-11.979	-10.030	-8.081
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	458.62	463.24	467.46	471.28	474.71	477.74	480.38	482.61	484.46
			Mz	0.61	0.46	0.30	0.14	-0.01	-0.17	-0.33	-0.48	-0.64
		1.35·PP+CM+1.5·Q	N	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295
			Vy	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825
			Vz	-24.631	-22.610	-20.589	-18.569	-16.548	-14.527	-12.506	-10.485	-8.464
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	477.99	482.80	487.19	491.17	494.74	497.90	500.65	502.99	504.92
			Mz	0.66	0.49	0.32	0.15	-0.01	-0.18	-0.35	-0.52	-0.69
		PP+1.35·CM+1.5·Q	N	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267
			Vy	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778
			Vz	-23.948	-21.976	-20.005	-18.033	-16.062	-14.090	-12.118	-10.147	-8.175
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	464.02	468.69	472.96	476.82	480.29	483.36	486.02	488.29	490.15
			Mz	0.62	0.46	0.30	0.14	-0.01	-0.17	-0.33	-0.49	-0.65
		1.35·PP+1.35·CM+1.5·Q	N	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
			Vy	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833
			Vz	-24.907	-22.863	-20.820	-18.776	-16.732	-14.689	-12.645	-10.601	-8.557
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	483.39	488.24	492.69	496.71	500.32	503.52	506.30	508.66	510.61
			Mz	0.66	0.49	0.32	0.15	-0.01	-0.19	-0.35	-0.52	-0.69
		PP+CM+1.5·V	N	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329
			Vy	0.597	0.597	0.449	0.283	0.117	-0.049	-0.076	-0.076	-0.076

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-3.528	-3.257	-2.986	-2.715	-2.444	-2.173	-1.902	-1.631	-1.360
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	70.75	71.44	72.08	72.66	73.18	73.65	74.07	74.42	74.73
			Mz	0.11	-0.01	-0.12	-0.20	-0.24	-0.24	-0.23	-0.21	-0.20
		1.35-PP+CM+1.5-V	N	-12.299	-12.299	-12.299	-12.299	-12.299	-12.299	-12.299	-12.299	-12.299
			Vy	0.652	0.652	0.504	0.338	0.172	0.006	-0.021	-0.021	-0.021
			Vz	-4.487	-4.144	-3.801	-3.458	-3.115	-2.772	-2.429	-2.086	-1.742
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	90.12	91.00	91.81	92.55	93.21	93.81	94.34	94.80	95.19
			Mz	0.15	0.02	-0.10	-0.19	-0.24	-0.26	-0.25	-0.25	-0.24
		PP+1.35-CM+1.5-V	N	-12.326	-12.326	-12.326	-12.326	-12.326	-12.326	-12.326	-12.326	-12.326
			Vy	0.605	0.605	0.457	0.291	0.125	-0.041	-0.068	-0.068	-0.068
			Vz	-3.804	-3.510	-3.216	-2.923	-2.629	-2.335	-2.041	-1.747	-1.454
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	76.14	76.89	77.57	78.20	78.76	79.27	79.71	80.10	80.42
			Mz	0.11	-0.01	-0.12	-0.19	-0.24	-0.25	-0.23	-0.22	-0.20
		1.35-PP+1.35-CM+1.5-V	N	-12.296	-12.296	-12.296	-12.296	-12.296	-12.296	-12.296	-12.296	-12.296
			Vy	0.660	0.660	0.512	0.346	0.180	0.014	-0.013	-0.013	-0.013
			Vz	-4.763	-4.397	-4.031	-3.665	-3.300	-2.934	-2.568	-2.202	-1.836
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.51	96.45	97.30	98.08	98.79	99.43	99.99	100.47	100.88
			Mz	0.16	0.02	-0.10	-0.18	-0.24	-0.26	-0.26	-0.25	-0.25
		PP+CM+1.05-Q+1.5-V	N	-12.209	-12.209	-12.209	-12.209	-12.209	-12.209	-12.209	-12.209	-12.209
			Vy	1.010	1.010	0.862	0.696	0.530	0.364	0.337	0.337	0.337
			Vz	-17.629	-16.184	-14.738	-13.293	-11.847	-10.401	-8.956	-7.510	-6.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	342.27	345.70	348.85	351.70	354.26	356.52	358.49	360.16	361.54
			Mz	0.43	0.23	0.04	-0.12	-0.25	-0.34	-0.41	-0.47	-0.54
		1.35-PP+CM+1.05-Q+1.5-V	N	-12.179	-12.179	-12.179	-12.179	-12.179	-12.179	-12.179	-12.179	-12.179
			Vy	1.065	1.065	0.917	0.751	0.585	0.419	0.392	0.392	0.392
			Vz	-18.588	-17.071	-15.553	-14.035	-12.518	-11.000	-9.483	-7.965	-6.447
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	361.64	365.26	368.58	371.59	374.29	376.68	378.76	380.54	382.00
			Mz	0.48	0.26	0.06	-0.11	-0.25	-0.35	-0.43	-0.51	-0.59
		PP+1.35-CM+1.05-Q+1.5-V	N	-12.206	-12.206	-12.206	-12.206	-12.206	-12.206	-12.206	-12.206	-12.206
			Vy	1.018	1.018	0.870	0.704	0.538	0.372	0.345	0.345	0.345
			Vz	-17.905	-16.437	-14.968	-13.500	-12.032	-10.563	-9.095	-7.627	-6.159
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	347.66	351.15	354.34	357.24	359.84	362.13	364.13	365.83	367.23
			Mz	0.44	0.23	0.04	-0.12	-0.25	-0.34	-0.41	-0.48	-0.55
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-12.176	-12.176	-12.176	-12.176	-12.176	-12.176	-12.176	-12.176	-12.176
			Vy	1.073	1.073	0.925	0.759	0.593	0.427	0.400	0.400	0.400
			Vz	-18.864	-17.324	-15.783	-14.243	-12.702	-11.162	-9.622	-8.081	-6.541
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	367.03	370.71	374.07	377.13	379.87	382.29	384.41	386.21	387.69
			Mz	0.49	0.27	0.06	-0.11	-0.25	-0.35	-0.43	-0.51	-0.59
		PP+CM+1.5-Q+0.9-V	N	-7.189	-7.189	-7.189	-7.189	-7.189	-7.189	-7.189	-7.189	-7.189
			Vy	1.020	1.020	0.931	0.832	0.732	0.633	0.616	0.616	0.616
			Vz	-23.672	-21.723	-19.775	-17.826	-15.877	-13.928	-11.979	-10.030	-8.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	458.63	463.24	467.46	471.29	474.71	477.74	480.38	482.62	484.46
			Mz	0.59	0.38	0.18	0.00	-0.16	-0.29	-0.42	-0.55	-0.67
		1.35-PP+CM+1.5-Q+0.9-V	N	-7.159	-7.159	-7.159	-7.159	-7.159	-7.159	-7.159	-7.159	-7.159
			Vy	1.075	1.075	0.986	0.887	0.787	0.688	0.672	0.672	0.672
			Vz	-24.631	-22.610	-20.589	-18.569	-16.548	-14.527	-12.506	-10.485	-8.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	478.00	482.80	487.19	491.18	494.75	497.91	500.65	502.99	504.92

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.63	0.42	0.20	0.01	-0.16	-0.31	-0.44	-0.58	-0.72
		PP+1.35·CM+1.5·Q+0.9·V	N	-7.186	-7.186	-7.186	-7.186	-7.186	-7.186	-7.186	-7.186	-7.186
			Vy	1.028	1.028	0.939	0.840	0.740	0.641	0.625	0.625	0.625
			Vz	-23.948	-21.976	-20.005	-18.033	-16.062	-14.090	-12.118	-10.147	-8.175
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	464.02	468.69	472.96	476.83	480.29	483.36	486.02	488.29	490.15
			Mz	0.60	0.39	0.19	0.00	-0.16	-0.30	-0.42	-0.55	-0.68
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-7.156	-7.156	-7.156	-7.156	-7.156	-7.156	-7.156	-7.156	-7.156
			Vy	1.083	1.083	0.995	0.895	0.795	0.696	0.680	0.680	0.680
			Vz	-24.907	-22.863	-20.820	-18.776	-16.732	-14.689	-12.645	-10.601	-8.557
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	483.39	488.25	492.69	496.71	500.33	503.52	506.30	508.66	510.61
			Mz	0.64	0.42	0.21	0.02	-0.16	-0.31	-0.45	-0.58	-0.72
		PP+CM+1.5·N	N	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469
			Vy	0.669	0.669	0.669	0.669	0.669	0.669	0.669	0.669	0.669
			Vz	-7.226	-6.757	-6.287	-5.818	-5.349	-4.880	-4.410	-3.941	-3.472
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.85	156.28	157.60	158.83	159.97	161.01	161.95	162.80	163.56
			Mz	0.54	0.40	0.27	0.13	0.00	-0.14	-0.28	-0.41	-0.55
		1.35·PP+CM+1.5·N	N	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499
			Vy	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724
			Vz	-8.185	-7.644	-7.102	-6.561	-6.020	-5.478	-4.937	-4.395	-3.854
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	174.22	175.83	177.33	178.72	180.00	181.17	182.23	183.18	184.02
			Mz	0.58	0.44	0.29	0.14	0.00	-0.15	-0.30	-0.45	-0.59
		PP+1.35·CM+1.5·N	N	0.471	0.471	0.471	0.471	0.471	0.471	0.471	0.471	0.471
			Vy	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677
			Vz	-7.502	-7.010	-6.518	-6.026	-5.534	-5.041	-4.549	-4.057	-3.565
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	160.25	161.72	163.10	164.37	165.55	166.62	167.60	168.47	169.25
			Mz	0.55	0.41	0.27	0.13	0.00	-0.14	-0.28	-0.42	-0.55
		1.35·PP+1.35·CM+1.5·N	N	0.501	0.501	0.501	0.501	0.501	0.501	0.501	0.501	0.501
			Vy	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732
			Vz	-8.461	-7.897	-7.333	-6.768	-6.204	-5.640	-5.076	-4.512	-3.948
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	179.62	181.28	182.83	184.26	185.58	186.79	187.88	188.85	189.71
			Mz	0.59	0.44	0.29	0.14	0.00	-0.15	-0.30	-0.45	-0.60
		PP+CM+1.05·Q+1.5·N	N	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588
			Vy	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082
			Vz	-21.327	-19.683	-18.039	-16.396	-14.752	-13.108	-11.464	-9.820	-8.176
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	426.37	430.54	434.37	437.88	441.04	443.88	446.38	448.54	450.37
			Mz	0.87	0.65	0.43	0.21	-0.01	-0.23	-0.45	-0.67	-0.89
		1.35·PP+CM+1.05·Q+1.5·N	N	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
			Vy	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137
			Vz	-22.286	-20.570	-18.854	-17.138	-15.422	-13.707	-11.991	-10.275	-8.559
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	445.74	450.10	454.10	457.76	461.08	464.04	466.65	468.91	470.83
			Mz	0.91	0.68	0.45	0.22	-0.01	-0.24	-0.48	-0.71	-0.94
		PP+1.35·CM+1.05·Q+1.5·N	N	0.591	0.591	0.591	0.591	0.591	0.591	0.591	0.591	0.591
			Vy	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
			Vz	-21.603	-19.936	-18.270	-16.603	-14.936	-13.270	-11.603	-9.937	-8.270
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	431.76	435.99	439.87	443.42	446.62	449.49	452.02	454.21	456.06
			Mz	0.87	0.65	0.43	0.21	-0.01	-0.23	-0.46	-0.68	-0.90
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621
			Vy	1.145	1.145	1.145	1.145	1.145	1.145	1.145	1.145	1.145

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-22.562	-20.823	-19.084	-17.346	-15.607	-13.868	-12.130	-10.391	-8.653
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	451.13	455.54	459.60	463.30	466.66	469.65	472.30	474.59	476.52
			Mz	0.92	0.69	0.45	0.22	-0.01	-0.25	-0.48	-0.71	-0.95
		PP+CM+0.9·V+1.5·N	N	-6.985	-6.985	-6.985	-6.985	-6.985	-6.985	-6.985	-6.985	-6.985
			Vy	0.919	0.919	0.830	0.731	0.631	0.532	0.516	0.516	0.516
			Vz	-7.226	-6.757	-6.287	-5.818	-5.349	-4.880	-4.410	-3.941	-3.472
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.86	156.28	157.61	158.84	159.97	161.01	161.96	162.81	163.56
			Mz	0.52	0.33	0.15	-0.01	-0.14	-0.26	-0.37	-0.47	-0.58
		1.35·PP+CM+0.9·V+1.5·N	N	-6.955	-6.955	-6.955	-6.955	-6.955	-6.955	-6.955	-6.955	-6.955
			Vy	0.975	0.975	0.886	0.786	0.686	0.587	0.571	0.571	0.571
			Vz	-8.185	-7.644	-7.102	-6.561	-6.020	-5.478	-4.937	-4.395	-3.854
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	174.23	175.84	177.34	178.73	180.00	181.17	182.23	183.18	184.02
			Mz	0.56	0.36	0.17	0.00	-0.14	-0.27	-0.39	-0.51	-0.62
		PP+1.35·CM+0.9·V+1.5·N	N	-6.982	-6.982	-6.982	-6.982	-6.982	-6.982	-6.982	-6.982	-6.982
			Vy	0.927	0.927	0.839	0.739	0.639	0.540	0.524	0.524	0.524
			Vz	-7.502	-7.010	-6.518	-6.026	-5.534	-5.041	-4.549	-4.057	-3.565
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	160.25	161.73	163.10	164.38	165.55	166.63	167.60	168.48	169.25
			Mz	0.53	0.34	0.16	0.00	-0.14	-0.26	-0.37	-0.48	-0.58
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-6.952	-6.952	-6.952	-6.952	-6.952	-6.952	-6.952	-6.952	-6.952
			Vy	0.983	0.983	0.894	0.794	0.694	0.595	0.579	0.579	0.579
			Vz	-8.461	-7.897	-7.333	-6.768	-6.204	-5.640	-5.076	-4.512	-3.948
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	179.62	181.28	182.83	184.27	185.58	186.79	187.88	188.85	189.71
			Mz	0.57	0.37	0.18	0.01	-0.14	-0.28	-0.39	-0.51	-0.63
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.865	-6.865	-6.865	-6.865	-6.865	-6.865	-6.865	-6.865	-6.865
			Vy	1.332	1.332	1.243	1.144	1.044	0.945	0.929	0.929	0.929
			Vz	-21.327	-19.683	-18.039	-16.396	-14.752	-13.108	-11.464	-9.820	-8.176
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	426.37	430.54	434.38	437.88	441.05	443.88	446.38	448.54	450.37
			Mz	0.85	0.57	0.31	0.07	-0.15	-0.36	-0.54	-0.73	-0.92
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.835	-6.835	-6.835	-6.835	-6.835	-6.835	-6.835	-6.835	-6.835
			Vy	1.388	1.388	1.299	1.199	1.099	1.000	0.984	0.984	0.984
			Vz	-22.286	-20.570	-18.854	-17.138	-15.422	-13.707	-11.991	-10.275	-8.559
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	445.74	450.10	454.11	457.77	461.08	464.04	466.65	468.92	470.83
			Mz	0.89	0.61	0.33	0.08	-0.15	-0.37	-0.57	-0.77	-0.97
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862
			Vy	1.340	1.340	1.251	1.152	1.052	0.953	0.937	0.937	0.937
			Vz	-21.603	-19.936	-18.270	-16.603	-14.936	-13.270	-11.603	-9.937	-8.270
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	431.76	435.99	439.87	443.42	446.63	449.49	452.02	454.21	456.07
			Mz	0.85	0.58	0.31	0.07	-0.15	-0.36	-0.55	-0.74	-0.93
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.832	-6.832	-6.832	-6.832	-6.832	-6.832	-6.832	-6.832	-6.832
			Vy	1.396	1.396	1.307	1.207	1.107	1.008	0.992	0.992	0.992
			Vz	-22.562	-20.823	-19.084	-17.346	-15.607	-13.868	-12.130	-10.391	-8.653
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	451.13	455.55	459.60	463.31	466.66	469.66	472.30	474.59	476.53
			Mz	0.90	0.61	0.34	0.08	-0.15	-0.37	-0.57	-0.77	-0.97
		PP+CM+1.5·Q+0.75·N	N	0.452	0.452	0.452	0.452	0.452	0.452	0.452	0.452	0.452
			Vy	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
			Vz	-25.521	-23.473	-21.425	-19.377	-17.329	-15.281	-13.233	-11.185	-9.137
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	500.68	505.66	510.23	514.37	518.11	521.42	524.32	526.81	528.87

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.81	0.60	0.40	0.19	-0.02	-0.22	-0.43	-0.63	-0.84
		1.35·PP+CM+1.5·Q+0.75·N	N	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482
			Vy	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070
			Vz	-26.480	-24.360	-22.240	-20.120	-18.000	-15.880	-13.760	-11.640	-9.520
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	520.05	525.22	529.96	534.26	538.14	541.58	544.60	547.18	549.33
			Mz	0.85	0.64	0.42	0.20	-0.02	-0.23	-0.45	-0.67	-0.89
		PP+1.35·CM+1.5·Q+0.75·N	N	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455
			Vy	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023
			Vz	-25.797	-23.726	-21.655	-19.585	-17.514	-15.443	-13.372	-11.301	-9.231
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	506.07	511.11	515.72	519.91	523.69	527.04	529.97	532.48	534.57
			Mz	0.82	0.61	0.40	0.19	-0.02	-0.22	-0.43	-0.64	-0.85
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.485	0.485	0.485	0.485	0.485	0.485	0.485	0.485	0.485
			Vy	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078
			Vz	-26.756	-24.613	-22.470	-20.327	-18.185	-16.042	-13.899	-11.756	-9.613
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	525.44	530.66	535.45	539.80	543.72	547.20	550.24	552.85	555.03
			Mz	0.86	0.64	0.42	0.20	-0.02	-0.24	-0.45	-0.67	-0.89
		PP+CM+1.5·V+0.75·N	N	-12.141	-12.141	-12.141	-12.141	-12.141	-12.141	-12.141	-12.141	-12.141
			Vy	0.842	0.842	0.693	0.527	0.362	0.196	0.169	0.169	0.169
			Vz	-5.377	-5.007	-4.637	-4.267	-3.896	-3.526	-3.156	-2.786	-2.416
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	112.81	113.86	114.84	115.75	116.58	117.33	118.01	118.62	119.15
			Mz	0.31	0.13	-0.02	-0.15	-0.24	-0.29	-0.33	-0.36	-0.40
		1.35·PP+CM+1.5·V+0.75·N	N	-12.111	-12.111	-12.111	-12.111	-12.111	-12.111	-12.111	-12.111	-12.111
			Vy	0.897	0.897	0.749	0.583	0.417	0.251	0.224	0.224	0.224
			Vz	-6.336	-5.894	-5.452	-5.009	-4.567	-4.125	-3.683	-3.240	-2.798
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	132.18	133.42	134.57	135.64	136.61	137.49	138.29	138.99	139.61
			Mz	0.35	0.17	0.00	-0.14	-0.24	-0.31	-0.35	-0.40	-0.44
		PP+1.35·CM+1.5·V+0.75·N	N	-12.139	-12.139	-12.139	-12.139	-12.139	-12.139	-12.139	-12.139	-12.139
			Vy	0.850	0.850	0.701	0.536	0.370	0.204	0.177	0.177	0.177
			Vz	-5.653	-5.260	-4.867	-4.474	-4.081	-3.688	-3.295	-2.902	-2.509
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	118.20	119.31	120.34	121.29	122.16	122.95	123.66	124.29	124.84
			Mz	0.31	0.14	-0.02	-0.15	-0.24	-0.30	-0.33	-0.37	-0.40
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-12.109	-12.109	-12.109	-12.109	-12.109	-12.109	-12.109	-12.109	-12.109
			Vy	0.905	0.905	0.757	0.591	0.425	0.259	0.232	0.232	0.232
			Vz	-6.612	-6.147	-5.682	-5.217	-4.752	-4.287	-3.822	-3.357	-2.892
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	137.57	138.86	140.07	141.18	142.19	143.11	143.93	144.66	145.30
			Mz	0.36	0.17	0.00	-0.14	-0.24	-0.31	-0.36	-0.40	-0.45
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-12.022	-12.022	-12.022	-12.022	-12.022	-12.022	-12.022	-12.022	-12.022
			Vy	1.255	1.255	1.106	0.940	0.775	0.609	0.582	0.582	0.582
			Vz	-19.478	-17.933	-16.389	-14.844	-13.299	-11.755	-10.210	-8.665	-7.121
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	384.32	388.12	391.61	394.79	397.65	400.20	402.43	404.35	405.96
			Mz	0.63	0.38	0.14	-0.07	-0.25	-0.39	-0.51	-0.62	-0.74
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-11.992	-11.992	-11.992	-11.992	-11.992	-11.992	-11.992	-11.992	-11.992
			Vy	1.310	1.310	1.162	0.996	0.830	0.664	0.637	0.637	0.637
			Vz	-20.437	-18.820	-17.204	-15.587	-13.970	-12.353	-10.737	-9.120	-7.503
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	403.69	407.68	411.34	414.68	417.68	420.36	422.71	424.73	426.42
			Mz	0.68	0.41	0.16	-0.06	-0.25	-0.40	-0.53	-0.66	-0.79
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-12.019	-12.019	-12.019	-12.019	-12.019	-12.019	-12.019	-12.019	-12.019
			Vy	1.263	1.263	1.114	0.949	0.783	0.617	0.590	0.590	0.590

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m	
			Vz	-19.754	-18.186	-16.619	-15.052	-13.484	-11.917	-10.349	-8.782	-7.214	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	389.71	393.57	397.11	400.33	403.23	405.81	408.08	410.02	411.65	
			Mz	0.64	0.38	0.14	-0.07	-0.25	-0.39	-0.51	-0.63	-0.75	
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-11.989	-11.989	-11.989	-11.989	-11.989	-11.989	-11.989	-11.989	-11.989	-11.989
			Vy	1.318	1.318	1.170	1.004	0.838	0.672	0.645	0.645	0.645	
			Vz	-20.713	-19.073	-17.434	-15.794	-14.155	-12.515	-10.876	-9.236	-7.597	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	409.08	413.13	416.84	420.22	423.26	425.98	428.35	430.40	432.11	
			Mz	0.68	0.42	0.16	-0.06	-0.25	-0.40	-0.53	-0.66	-0.79	
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-7.001	-7.001	-7.001	-7.001	-7.001	-7.001	-7.001	-7.001	-7.001	-7.001
			Vy	1.265	1.265	1.176	1.076	0.977	0.877	0.861	0.861	0.861	
			Vz	-25.521	-23.473	-21.425	-19.377	-17.329	-15.281	-13.233	-11.185	-9.137	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	500.68	505.66	510.23	514.38	518.11	521.43	524.33	526.81	528.88	
			Mz	0.79	0.53	0.28	0.05	-0.16	-0.34	-0.52	-0.70	-0.87	
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-6.971	-6.971	-6.971	-6.971	-6.971	-6.971	-6.971	-6.971	-6.971	
			Vy	1.320	1.320	1.231	1.131	1.032	0.932	0.916	0.916	0.916	
			Vz	-26.480	-24.360	-22.240	-20.120	-18.000	-15.880	-13.760	-11.640	-9.520	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	520.05	525.22	529.96	534.27	538.14	541.59	544.60	547.18	549.34	
			Mz	0.83	0.56	0.30	0.06	-0.16	-0.36	-0.54	-0.73	-0.92	
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.999	-6.999	-6.999	-6.999	-6.999	-6.999	-6.999	-6.999	-6.999	
			Vy	1.273	1.273	1.184	1.084	0.985	0.885	0.869	0.869	0.869	
			Vz	-25.797	-23.726	-21.655	-19.585	-17.514	-15.443	-13.372	-11.301	-9.231	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	506.07	511.11	515.72	519.92	523.69	527.04	529.97	532.48	534.57	
			Mz	0.79	0.54	0.28	0.05	-0.16	-0.35	-0.52	-0.70	-0.88	
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.969	-6.969	-6.969	-6.969	-6.969	-6.969	-6.969	-6.969	-6.969	
			Vy	1.328	1.328	1.239	1.139	1.040	0.940	0.924	0.924	0.924	
			Vz	-26.756	-24.613	-22.470	-20.327	-18.185	-16.042	-13.899	-11.756	-9.613	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	525.44	530.67	535.45	539.81	543.72	547.20	550.25	552.86	555.03	
			Mz	0.84	0.57	0.31	0.06	-0.16	-0.36	-0.55	-0.73	-0.92	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N15/N17	Madera	PP+CM	N	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109
			Vy	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184
			Vz	-1.095	-0.818	-0.540	-0.263	0.014	0.291	0.568	0.845	1.122
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	74.72	74.92	75.06	75.14	75.16	75.13	75.05	74.90	74.70
			Mz	-0.15	-0.11	-0.07	-0.04	0.00	0.04	0.08	0.11	0.15
		1.35·PP+CM	N	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144
			Vy	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240
			Vz	-1.384	-1.034	-0.685	-0.336	0.013	0.362	0.712	1.061	1.410
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.18	95.43	95.61	95.71	95.74	95.70	95.59	95.41	95.16
			Mz	-0.19	-0.15	-0.10	-0.05	0.00	0.05	0.10	0.15	0.20
		PP+1.35·CM	N	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111
			Vy	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192
			Vz	-1.189	-0.887	-0.585	-0.283	0.019	0.321	0.623	0.925	1.227
	Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	My		80.42	80.63	80.78	80.87	80.89	80.86	80.76	80.60	80.39	
	Mz		-0.16	-0.12	-0.08	-0.04	0.00	0.04	0.08	0.12	0.16	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35-PP+1.35-CM	N	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
			Vy	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248
			Vz	-1.478	-1.104	-0.730	-0.355	0.019	0.393	0.767	1.141	1.515
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	100.88	101.14	101.33	101.44	101.47	101.43	101.31	101.12	100.85
			Mz	-0.20	-0.15	-0.10	-0.05	0.00	0.05	0.10	0.15	0.20
		PP+CM+1.5-Q	N	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301
			Vy	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791
			Vz	-7.818	-5.863	-3.908	-1.953	0.001	1.956	3.911	5.866	7.821
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	484.46	485.85	486.84	487.44	487.64	487.44	486.84	485.85	484.46
			Mz	-0.64	-0.48	-0.32	-0.16	0.00	0.16	0.32	0.48	0.64
		1.35-PP+CM+1.5-Q	N	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337
			Vy	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847
			Vz	-8.107	-6.080	-4.053	-2.026	0.001	2.028	4.055	6.082	8.109
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	504.92	506.36	507.39	508.01	508.22	508.01	507.39	506.36	504.92
			Mz	-0.69	-0.52	-0.34	-0.17	0.00	0.17	0.35	0.52	0.69
		PP+1.35·CM+1.5-Q	N	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304
			Vy	-0.799	-0.799	-0.799	-0.799	-0.799	-0.799	-0.799	-0.799	-0.799
			Vz	-7.913	-5.933	-3.953	-1.973	0.007	1.987	3.967	5.947	7.926
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	490.15	491.56	492.56	493.17	493.37	493.16	492.56	491.55	490.14
			Mz	-0.65	-0.49	-0.32	-0.16	0.00	0.16	0.33	0.49	0.65
		1.35-PP+1.35-CM+1.5-Q	N	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339
			Vy	-0.855	-0.855	-0.855	-0.855	-0.855	-0.855	-0.855	-0.855	-0.855
			Vz	-8.202	-6.150	-4.098	-2.046	0.006	2.058	4.110	6.162	8.214
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	510.61	512.07	513.11	513.74	513.95	513.74	513.11	512.06	510.60
			Mz	-0.69	-0.52	-0.35	-0.17	0.00	0.17	0.35	0.52	0.70
		PP+CM+1.5-V	N	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219
			Vy	0.219	0.219	0.070	-0.096	-0.262	-0.428	-0.455	-0.455	-0.455
			Vz	-1.095	-0.818	-0.540	-0.263	0.014	0.291	0.568	0.845	1.122
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	74.73	74.93	75.07	75.15	75.17	75.14	75.05	74.91	74.71
			Mz	-0.20	-0.24	-0.27	-0.27	-0.24	-0.17	-0.07	0.02	0.11
		1.35-PP+CM+1.5-V	N	-12.184	-12.184	-12.184	-12.184	-12.184	-12.184	-12.184	-12.184	-12.184
			Vy	0.163	0.163	0.014	-0.152	-0.318	-0.484	-0.511	-0.511	-0.511
			Vz	-1.384	-1.034	-0.685	-0.336	0.013	0.362	0.712	1.061	1.410
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	95.19	95.44	95.61	95.72	95.75	95.71	95.60	95.42	95.17
			Mz	-0.25	-0.28	-0.30	-0.28	-0.24	-0.15	-0.05	0.05	0.16
		PP+1.35·CM+1.5-V	N	-12.216	-12.216	-12.216	-12.216	-12.216	-12.216	-12.216	-12.216	-12.216
			Vy	0.210	0.210	0.062	-0.104	-0.270	-0.436	-0.463	-0.463	-0.463
			Vz	-1.189	-0.887	-0.585	-0.283	0.019	0.321	0.623	0.925	1.227
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	80.43	80.64	80.79	80.87	80.90	80.87	80.77	80.61	80.39
			Mz	-0.21	-0.25	-0.28	-0.27	-0.24	-0.16	-0.07	0.02	0.12
		1.35-PP+1.35-CM+1.5-V	N	-12.181	-12.181	-12.181	-12.181	-12.181	-12.181	-12.181	-12.181	-12.181
			Vy	0.154	0.154	0.006	-0.160	-0.326	-0.492	-0.519	-0.519	-0.519
			Vz	-1.478	-1.104	-0.730	-0.355	0.019	0.393	0.767	1.141	1.515
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	100.89	101.15	101.34	101.45	101.48	101.44	101.32	101.13	100.86
			Mz	-0.25	-0.28	-0.30	-0.29	-0.24	-0.15	-0.05	0.06	0.16
		PP+CM+1.05-Q+1.5-V	N	-12.084	-12.084	-12.084	-12.084	-12.084	-12.084	-12.084	-12.084	-12.084
			Vy	-0.206	-0.206	-0.355	-0.521	-0.687	-0.853	-0.880	-0.880	-0.880
			Vz	-5.801	-4.350	-2.898	-1.446	0.005	1.457	2.908	4.360	5.812

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	361.55	362.58	363.32	363.76	363.90	363.76	363.31	362.57	361.54
			Mz	-0.54	-0.50	-0.45	-0.36	-0.24	-0.08	0.10	0.28	0.46
		1.35·PP+CM+1.05·Q+1.5·V	N	-12.049	-12.049	-12.049	-12.049	-12.049	-12.049	-12.049	-12.049	-12.049
			Vy	-0.263	-0.263	-0.411	-0.577	-0.743	-0.909	-0.936	-0.936	-0.936
			Vz	-6.090	-4.566	-3.043	-1.519	0.005	1.528	3.052	4.576	6.099
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	382.01	383.09	383.87	384.33	384.48	384.33	383.86	383.09	382.00
			Mz	-0.59	-0.54	-0.47	-0.37	-0.24	-0.07	0.12	0.31	0.50
		PP+1.35·CM+1.05·Q+1.5·V	N	-12.081	-12.081	-12.081	-12.081	-12.081	-12.081	-12.081	-12.081	-12.081
			Vy	-0.215	-0.215	-0.363	-0.529	-0.695	-0.861	-0.888	-0.888	-0.888
			Vz	-5.895	-4.419	-2.942	-1.466	0.011	1.487	2.964	4.440	5.917
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	367.24	368.29	369.04	369.49	369.63	369.48	369.03	368.28	367.22
			Mz	-0.55	-0.51	-0.45	-0.36	-0.24	-0.08	0.10	0.28	0.46
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-12.046	-12.046	-12.046	-12.046	-12.046	-12.046	-12.046	-12.046	-12.046
			Vy	-0.271	-0.271	-0.419	-0.585	-0.751	-0.917	-0.944	-0.944	-0.944
			Vz	-6.184	-4.636	-3.087	-1.539	0.010	1.559	3.107	4.656	6.204
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	387.70	388.80	389.59	390.06	390.21	390.05	389.58	388.79	387.68
			Mz	-0.60	-0.54	-0.47	-0.37	-0.24	-0.07	0.13	0.32	0.51
		PP+CM+1.5·Q+0.9·V	N	-7.095	-7.095	-7.095	-7.095	-7.095	-7.095	-7.095	-7.095	-7.095
			Vy	-0.550	-0.550	-0.639	-0.738	-0.838	-0.937	-0.954	-0.954	-0.954
			Vz	-7.818	-5.863	-3.908	-1.953	0.001	1.956	3.911	5.866	7.821
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	484.46	485.86	486.85	487.45	487.64	487.44	486.85	485.85	484.46
			Mz	-0.67	-0.56	-0.44	-0.30	-0.14	0.04	0.23	0.43	0.62
		1.35·PP+CM+1.5·Q+0.9·V	N	-7.060	-7.060	-7.060	-7.060	-7.060	-7.060	-7.060	-7.060	-7.060
			Vy	-0.606	-0.606	-0.695	-0.794	-0.894	-0.993	-1.010	-1.010	-1.010
			Vz	-8.107	-6.080	-4.053	-2.026	0.001	2.028	4.055	6.082	8.109
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	504.92	506.37	507.40	508.02	508.22	508.02	507.40	506.37	504.92
			Mz	-0.72	-0.60	-0.46	-0.31	-0.14	0.05	0.26	0.46	0.67
		PP+1.35·CM+1.5·Q+0.9·V	N	-7.092	-7.092	-7.092	-7.092	-7.092	-7.092	-7.092	-7.092	-7.092
			Vy	-0.558	-0.558	-0.647	-0.746	-0.846	-0.946	-0.962	-0.962	-0.962
			Vz	-7.913	-5.933	-3.953	-1.973	0.007	1.987	3.967	5.947	7.926
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	490.16	491.56	492.57	493.17	493.37	493.17	492.56	491.56	490.15
			Mz	-0.68	-0.57	-0.44	-0.30	-0.14	0.04	0.24	0.43	0.63
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-7.057	-7.057	-7.057	-7.057	-7.057	-7.057	-7.057	-7.057	-7.057
			Vy	-0.614	-0.614	-0.703	-0.802	-0.902	-1.002	-1.018	-1.018	-1.018
			Vz	-8.202	-6.150	-4.098	-2.046	0.006	2.058	4.110	6.162	8.214
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	510.62	512.08	513.12	513.74	513.95	513.74	513.11	512.07	510.61
			Mz	-0.73	-0.60	-0.47	-0.31	-0.14	0.05	0.26	0.47	0.67
		PP+CM+1.5·N	N	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554
			Vy	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678
			Vz	-1.890	-1.415	-0.940	-0.464	0.011	0.487	0.962	1.437	1.913
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	163.56	163.90	164.14	164.28	164.33	164.27	164.13	163.88	163.54
			Mz	-0.55	-0.41	-0.27	-0.14	0.00	0.14	0.28	0.42	0.55
		1.35·PP+CM+1.5·N	N	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
			Vy	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735
			Vz	-2.179	-1.632	-1.084	-0.537	0.011	0.558	1.106	1.653	2.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	184.02	184.41	184.69	184.85	184.90	184.85	184.68	184.40	184.00
			Mz	-0.60	-0.45	-0.30	-0.15	0.00	0.15	0.30	0.45	0.60

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+1.35·CM+1.5·N	N	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557
			Vy	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687
			Vz	-1.985	-1.484	-0.984	-0.484	0.017	0.517	1.017	1.518	2.018
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	169.25	169.61	169.86	170.01	170.05	170.00	169.84	169.59	169.23
			Mz	-0.56	-0.42	-0.28	-0.14	0.00	0.14	0.28	0.42	0.56
		1.35·PP+1.35·CM+1.5·N	N	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592
			Vy	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743
			Vz	-2.274	-1.701	-1.129	-0.556	0.016	0.588	1.161	1.733	2.306
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	189.71	190.12	190.41	190.58	190.63	190.57	190.39	190.10	189.69
			Mz	-0.60	-0.45	-0.30	-0.15	0.00	0.15	0.30	0.45	0.61
		PP+CM+1.05·Q+1.5·N	N	0.689	0.689	0.689	0.689	0.689	0.689	0.689	0.689	0.689
			Vy	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104
			Vz	-6.597	-4.947	-3.297	-1.647	0.003	1.652	3.302	4.952	6.602
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	450.38	451.55	452.39	452.89	453.06	452.89	452.39	451.55	450.37
			Mz	-0.90	-0.67	-0.45	-0.22	0.00	0.23	0.45	0.68	0.90
		1.35·PP+CM+1.05·Q+1.5·N	N	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724
			Vy	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160
			Vz	-6.886	-5.164	-3.442	-1.720	0.002	1.724	3.446	5.168	6.890
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	470.84	472.06	472.94	473.46	473.64	473.46	472.93	472.06	470.83
			Mz	-0.94	-0.71	-0.47	-0.23	0.00	0.24	0.47	0.71	0.95
		PP+1.35·CM+1.05·Q+1.5·N	N	0.692	0.692	0.692	0.692	0.692	0.692	0.692	0.692	0.692
			Vy	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112
			Vz	-6.691	-5.016	-3.342	-1.667	0.008	1.683	3.358	5.032	6.707
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	456.07	457.26	458.11	458.62	458.79	458.61	458.10	457.25	456.05
			Mz	-0.90	-0.68	-0.45	-0.22	0.00	0.23	0.45	0.68	0.91
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727
			Vy	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168
			Vz	-6.980	-5.233	-3.486	-1.739	0.007	1.754	3.501	5.248	6.995
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	476.53	477.77	478.66	479.19	479.36	479.19	478.65	477.76	476.52
			Mz	-0.95	-0.71	-0.47	-0.24	0.00	0.24	0.48	0.71	0.95
		PP+CM+0.9·V+1.5·N	N	-6.842	-6.842	-6.842	-6.842	-6.842	-6.842	-6.842	-6.842	-6.842
			Vy	-0.437	-0.437	-0.526	-0.626	-0.725	-0.825	-0.841	-0.841	-0.841
			Vz	-1.890	-1.415	-0.940	-0.464	0.011	0.487	0.962	1.437	1.913
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	163.57	163.90	164.14	164.28	164.33	164.28	164.13	163.89	163.55
			Mz	-0.58	-0.49	-0.39	-0.28	-0.14	0.02	0.19	0.36	0.53
		1.35·PP+CM+0.9·V+1.5·N	N	-6.807	-6.807	-6.807	-6.807	-6.807	-6.807	-6.807	-6.807	-6.807
			Vy	-0.493	-0.493	-0.582	-0.682	-0.781	-0.881	-0.897	-0.897	-0.897
			Vz	-2.179	-1.632	-1.084	-0.537	0.011	0.558	1.106	1.653	2.201
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	184.03	184.41	184.69	184.86	184.91	184.85	184.68	184.40	184.01
			Mz	-0.63	-0.53	-0.42	-0.29	-0.14	0.03	0.21	0.39	0.58
		PP+1.35·CM+0.9·V+1.5·N	N	-6.840	-6.840	-6.840	-6.840	-6.840	-6.840	-6.840	-6.840	-6.840
			Vy	-0.445	-0.445	-0.534	-0.634	-0.733	-0.833	-0.849	-0.849	-0.849
			Vz	-1.985	-1.484	-0.984	-0.484	0.017	0.517	1.017	1.518	2.018
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	169.26	169.61	169.86	170.01	170.06	170.00	169.85	169.59	169.23
			Mz	-0.59	-0.50	-0.40	-0.28	-0.14	0.02	0.19	0.36	0.54
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-6.804	-6.804	-6.804	-6.804	-6.804	-6.804	-6.804	-6.804	-6.804
			Vy	-0.501	-0.501	-0.590	-0.690	-0.789	-0.889	-0.905	-0.905	-0.905
			Vz	-2.274	-1.701	-1.129	-0.556	0.016	0.588	1.161	1.733	2.306

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	189.72	190.12	190.41	190.58	190.64	190.58	190.40	190.10	189.69
			Mz	-0.63	-0.53	-0.42	-0.29	-0.14	0.03	0.21	0.40	0.58
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.707	-6.707	-6.707	-6.707	-6.707	-6.707	-6.707	-6.707	-6.707
			Vy	-0.862	-0.862	-0.951	-1.051	-1.150	-1.250	-1.266	-1.266	-1.266
			Vz	-6.597	-4.947	-3.297	-1.647	0.003	1.652	3.302	4.952	6.602
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	450.38	451.55	452.39	452.90	453.06	452.89	452.39	451.55	450.38
			Mz	-0.93	-0.75	-0.57	-0.36	-0.14	0.10	0.36	0.62	0.88
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672	-6.672
			Vy	-0.918	-0.918	-1.007	-1.107	-1.206	-1.306	-1.322	-1.322	-1.322
			Vz	-6.886	-5.164	-3.442	-1.720	0.002	1.724	3.446	5.168	6.890
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	470.84	472.07	472.94	473.47	473.64	473.47	472.94	472.06	470.84
			Mz	-0.97	-0.78	-0.59	-0.37	-0.14	0.12	0.38	0.65	0.92
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.705	-6.705	-6.705	-6.705	-6.705	-6.705	-6.705	-6.705	-6.705
			Vy	-0.870	-0.870	-0.959	-1.059	-1.159	-1.258	-1.274	-1.274	-1.274
			Vz	-6.691	-5.016	-3.342	-1.667	0.008	1.683	3.358	5.032	6.707
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	456.07	457.26	458.11	458.62	458.79	458.62	458.11	457.25	456.06
			Mz	-0.93	-0.76	-0.57	-0.37	-0.14	0.11	0.36	0.62	0.88
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.669	-6.669	-6.669	-6.669	-6.669	-6.669	-6.669	-6.669	-6.669
			Vy	-0.926	-0.926	-1.015	-1.115	-1.215	-1.314	-1.330	-1.330	-1.330
			Vz	-6.980	-5.233	-3.486	-1.739	0.007	1.754	3.501	5.248	6.995
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	476.53	477.78	478.66	479.19	479.37	479.19	478.66	477.77	476.52
			Mz	-0.98	-0.79	-0.59	-0.38	-0.14	0.12	0.39	0.66	0.93
		PP+CM+1.5·Q+0.75·N	N	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524
			Vy	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038
			Vz	-8.216	-6.162	-4.108	-2.054	0.000	2.054	4.108	6.163	8.217
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	528.88	530.34	531.38	532.01	532.22	532.01	531.38	530.34	528.88
			Mz	-0.84	-0.63	-0.42	-0.21	0.00	0.21	0.42	0.64	0.85
		1.35·PP+CM+1.5·Q+0.75·N	N	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560
			Vy	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094
			Vz	-8.505	-6.379	-4.253	-2.127	0.000	2.126	4.252	6.378	8.504
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	549.34	550.85	551.93	552.58	552.80	552.58	551.93	550.85	549.34
			Mz	-0.89	-0.67	-0.44	-0.22	0.00	0.22	0.45	0.67	0.89
		PP+1.35·CM+1.5·Q+0.75·N	N	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527
			Vy	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047
			Vz	-8.310	-6.231	-4.152	-2.073	0.006	2.085	4.164	6.243	8.322
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	534.57	536.05	537.10	537.74	537.95	537.74	537.10	536.04	534.56
			Mz	-0.85	-0.64	-0.42	-0.21	0.00	0.21	0.43	0.64	0.85
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562
			Vy	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103
			Vz	-8.599	-6.448	-4.297	-2.146	0.005	2.156	4.307	6.458	8.609
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	555.03	556.56	557.65	558.31	558.53	558.31	557.65	556.55	555.02
			Mz	-0.90	-0.67	-0.45	-0.22	0.00	0.23	0.45	0.67	0.90
		PP+CM+1.5·V+0.75·N	N	-11.996	-11.996	-11.996	-11.996	-11.996	-11.996	-11.996	-11.996	-11.996
			Vy	-0.029	-0.029	-0.177	-0.343	-0.509	-0.675	-0.702	-0.702	-0.702
			Vz	-1.493	-1.116	-0.740	-0.364	0.013	0.389	0.765	1.141	1.518
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	119.15	119.42	119.61	119.72	119.75	119.71	119.59	119.40	119.13
			Mz	-0.40	-0.39	-0.37	-0.32	-0.24	-0.12	0.03	0.17	0.31

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35·PP+CM+1.5·V+0.75·N	N	-11.961	-11.961	-11.961	-11.961	-11.961	-11.961	-11.961	-11.961	-11.961
			Vy	-0.085	-0.085	-0.233	-0.399	-0.565	-0.731	-0.758	-0.758	-0.758
			Vz	-1.781	-1.333	-0.885	-0.436	0.012	0.460	0.909	1.357	1.805
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	139.61	139.93	140.15	140.29	140.33	140.28	140.14	139.91	139.59
			Mz	-0.45	-0.43	-0.40	-0.33	-0.24	-0.10	0.05	0.20	0.36
		PP+1.35·CM+1.5·V+0.75·N	N	-11.993	-11.993	-11.993	-11.993	-11.993	-11.993	-11.993	-11.993	-11.993
			Vy	-0.037	-0.037	-0.185	-0.351	-0.517	-0.683	-0.710	-0.710	-0.710
			Vz	-1.587	-1.186	-0.784	-0.383	0.018	0.419	0.820	1.222	1.623
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	124.84	125.13	125.33	125.44	125.48	125.44	125.31	125.10	124.81
			Mz	-0.41	-0.40	-0.38	-0.32	-0.24	-0.11	0.03	0.18	0.32
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-11.958	-11.958	-11.958	-11.958	-11.958	-11.958	-11.958	-11.958	-11.958
			Vy	-0.093	-0.093	-0.241	-0.407	-0.573	-0.739	-0.766	-0.766	-0.766
			Vz	-1.876	-1.402	-0.929	-0.456	0.017	0.491	0.964	1.437	1.910
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	145.30	145.64	145.87	146.02	146.06	146.01	145.86	145.62	145.28
			Mz	-0.45	-0.43	-0.40	-0.34	-0.24	-0.10	0.05	0.21	0.37
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-11.861	-11.861	-11.861	-11.861	-11.861	-11.861	-11.861	-11.861	-11.861
			Vy	-0.454	-0.454	-0.602	-0.768	-0.934	-1.100	-1.127	-1.127	-1.127
			Vz	-6.199	-4.648	-3.098	-1.547	0.004	1.555	3.105	4.656	6.207
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	405.97	407.07	407.86	408.33	408.49	408.33	407.85	407.06	405.96
			Mz	-0.75	-0.65	-0.55	-0.41	-0.24	-0.03	0.20	0.43	0.66
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-11.826	-11.826	-11.826	-11.826	-11.826	-11.826	-11.826	-11.826	-11.826
			Vy	-0.510	-0.510	-0.658	-0.824	-0.990	-1.156	-1.183	-1.183	-1.183
			Vz	-6.488	-4.865	-3.242	-1.620	0.003	1.626	3.249	4.872	6.495
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	426.43	427.58	428.40	428.90	429.06	428.90	428.40	427.58	426.42
			Mz	-0.79	-0.69	-0.57	-0.42	-0.24	-0.02	0.22	0.46	0.70
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-11.859	-11.859	-11.859	-11.859	-11.859	-11.859	-11.859	-11.859	-11.859
			Vy	-0.462	-0.462	-0.610	-0.776	-0.942	-1.108	-1.135	-1.135	-1.135
			Vz	-6.293	-4.718	-3.142	-1.566	0.009	1.585	3.161	4.736	6.312
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	411.66	412.78	413.58	414.06	414.21	414.05	413.57	412.77	411.64
			Mz	-0.75	-0.66	-0.55	-0.41	-0.24	-0.03	0.20	0.43	0.67
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-11.823	-11.823	-11.823	-11.823	-11.823	-11.823	-11.823	-11.823	-11.823
			Vy	-0.518	-0.518	-0.666	-0.832	-0.998	-1.164	-1.191	-1.191	-1.191
			Vz	-6.582	-4.935	-3.287	-1.639	0.009	1.656	3.304	4.952	6.600
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	432.12	433.29	434.13	434.63	434.79	434.62	434.12	433.28	432.10
			Mz	-0.80	-0.69	-0.57	-0.42	-0.24	-0.01	0.23	0.47	0.71
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-6.872	-6.872	-6.872	-6.872	-6.872	-6.872	-6.872	-6.872	-6.872
			Vy	-0.797	-0.797	-0.886	-0.986	-1.085	-1.185	-1.201	-1.201	-1.201
			Vz	-8.216	-6.162	-4.108	-2.054	0.000	2.054	4.108	6.163	8.217
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	528.88	530.34	531.39	532.02	532.22	532.02	531.39	530.34	528.88
			Mz	-0.87	-0.71	-0.54	-0.35	-0.14	0.09	0.33	0.58	0.82
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-6.837	-6.837	-6.837	-6.837	-6.837	-6.837	-6.837	-6.837	-6.837
			Vy	-0.853	-0.853	-0.942	-1.042	-1.141	-1.241	-1.257	-1.257	-1.257
			Vz	-8.505	-6.379	-4.253	-2.127	0.000	2.126	4.252	6.378	8.504
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	549.34	550.86	551.94	552.59	552.80	552.59	551.94	550.86	549.34
			Mz	-0.92	-0.75	-0.56	-0.36	-0.14	0.10	0.36	0.61	0.87
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870
			Vy	-0.805	-0.805	-0.894	-0.994	-1.093	-1.193	-1.209	-1.209	-1.209
			Vz	-8.310	-6.231	-4.152	-2.073	0.006	2.085	4.164	6.243	8.322

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	534.58	536.05	537.11	537.74	537.95	537.74	537.11	536.05	534.57
			Mz	-0.88	-0.72	-0.54	-0.35	-0.14	0.09	0.34	0.58	0.83
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.834	-6.834	-6.834	-6.834	-6.834	-6.834	-6.834	-6.834	-6.834
			Vy	-0.861	-0.861	-0.950	-1.050	-1.149	-1.249	-1.265	-1.265	-1.265
			Vz	-8.599	-6.448	-4.297	-2.146	0.005	2.156	4.307	6.458	8.609
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	555.04	556.57	557.66	558.31	558.53	558.31	557.65	556.56	555.03
			Mz	-0.93	-0.75	-0.57	-0.36	-0.14	0.10	0.36	0.62	0.88

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N17/N19	Madera	PP+CM	N	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
			Vy	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180
			Vz	1.388	1.659	1.930	2.201	2.472	2.743	3.014	3.285	3.556
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	74.70	74.39	74.03	73.61	73.13	72.60	72.02	71.37	70.68
			Mz	0.15	0.11	0.08	0.04	0.00	-0.03	-0.07	-0.11	-0.14
		1.35·PP+CM	N	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163
			Vy	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235
			Vz	1.769	2.112	2.455	2.798	3.142	3.485	3.828	4.171	4.514
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.16	94.77	94.30	93.77	93.16	92.49	91.75	90.93	90.05
			Mz	0.20	0.15	0.10	0.05	0.00	-0.04	-0.09	-0.14	-0.19
		PP+1.35·CM	N	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
			Vy	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188
			Vz	1.492	1.786	2.080	2.374	2.668	2.961	3.255	3.549	3.843
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	80.38	80.05	79.66	79.21	78.69	78.12	77.49	76.80	76.04
			Mz	0.16	0.12	0.08	0.04	0.00	-0.04	-0.07	-0.11	-0.15
		1.35·PP+1.35·CM	N	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166
			Vy	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243
			Vz	1.874	2.240	2.605	2.971	3.337	3.703	4.069	4.435	4.801
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	100.85	100.43	99.94	99.37	98.73	98.01	97.22	96.36	95.42
			Mz	0.20	0.15	0.10	0.05	0.00	-0.05	-0.10	-0.14	-0.19
		PP+CM+1.5·Q	N	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337
			Vy	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
			Vz	8.084	10.033	11.982	13.931	15.880	17.829	19.778	21.727	23.675
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	484.45	482.61	480.37	477.74	474.71	471.28	467.45	463.23	458.62
			Mz	0.64	0.49	0.33	0.17	0.02	-0.14	-0.30	-0.45	-0.61
		1.35·PP+CM+1.5·Q	N	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378
			Vy	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825
			Vz	8.466	10.487	12.508	14.528	16.549	18.570	20.591	22.612	24.633
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	504.91	502.99	500.65	497.90	494.74	491.17	487.19	482.79	477.99
			Mz	0.69	0.52	0.35	0.19	0.02	-0.15	-0.32	-0.49	-0.65
		PP+1.35·CM+1.5·Q	N	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339
			Vy	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778
			Vz	8.189	10.161	12.132	14.104	16.076	18.047	20.019	21.991	23.962
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	490.14	488.27	486.00	483.34	480.27	476.80	472.93	468.66	463.98
			Mz	0.65	0.49	0.33	0.18	0.02	-0.14	-0.30	-0.46	-0.62
		1.35·PP+1.35·CM+1.5·Q	N	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833
			Vz	8.570	10.614	12.658	14.701	16.745	18.789	20.833	22.876	24.920
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	510.60	508.65	506.28	503.50	500.30	496.69	492.66	488.21	483.35
			Mz	0.70	0.53	0.36	0.19	0.02	-0.15	-0.32	-0.49	-0.66
		PP+CM+1.5-V	N	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304
			Vy	0.567	0.567	0.419	0.253	0.087	-0.079	-0.106	-0.106	-0.106
			Vz	1.388	1.659	1.930	2.201	2.472	2.743	3.014	3.285	3.556
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	74.68	74.37	74.00	73.58	73.11	72.58	71.99	71.35	70.66
			Mz	0.09	-0.02	-0.13	-0.19	-0.23	-0.23	-0.21	-0.19	-0.16
		1.35-PP+CM+1.5-V	N	-11.264	-11.264	-11.264	-11.264	-11.264	-11.264	-11.264	-11.264	-11.264
			Vy	0.622	0.622	0.474	0.308	0.142	-0.024	-0.051	-0.051	-0.051
			Vz	1.769	2.112	2.455	2.798	3.142	3.485	3.828	4.171	4.514
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	95.14	94.75	94.28	93.75	93.14	92.47	91.72	90.91	90.03
			Mz	0.14	0.01	-0.10	-0.18	-0.23	-0.24	-0.23	-0.22	-0.21
		PP+1.35-CM+1.5-V	N	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302
			Vy	0.575	0.575	0.427	0.261	0.095	-0.071	-0.098	-0.098	-0.098
			Vz	1.492	1.786	2.080	2.374	2.668	2.961	3.255	3.549	3.843
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	80.36	80.03	79.64	79.18	78.67	78.10	77.47	76.77	76.02
			Mz	0.10	-0.02	-0.12	-0.19	-0.23	-0.23	-0.21	-0.19	-0.17
		1.35-PP+1.35-CM+1.5-V	N	-11.261	-11.261	-11.261	-11.261	-11.261	-11.261	-11.261	-11.261	-11.261
			Vy	0.630	0.630	0.482	0.316	0.150	-0.016	-0.043	-0.043	-0.043
			Vz	1.874	2.240	2.605	2.971	3.337	3.703	4.069	4.435	4.801
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	100.82	100.41	99.91	99.35	98.70	97.99	97.20	96.33	95.39
			Mz	0.14	0.02	-0.10	-0.18	-0.23	-0.24	-0.23	-0.22	-0.22
		PP+CM+1.05-Q+1.5-V	N	-11.154	-11.154	-11.154	-11.154	-11.154	-11.154	-11.154	-11.154	-11.154
			Vy	0.980	0.980	0.832	0.666	0.500	0.334	0.307	0.307	0.307
			Vz	6.075	7.521	8.967	10.412	11.858	13.303	14.749	16.194	17.640
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	361.51	360.12	358.45	356.48	354.21	351.65	348.80	345.65	342.21
			Mz	0.44	0.24	0.05	-0.10	-0.22	-0.30	-0.37	-0.43	-0.49
		1.35-PP+CM+1.05-Q+1.5-V	N	-11.114	-11.114	-11.114	-11.114	-11.114	-11.114	-11.114	-11.114	-11.114
			Vy	1.035	1.035	0.887	0.721	0.555	0.389	0.362	0.362	0.362
			Vz	6.457	7.974	9.492	11.009	12.527	14.045	15.562	17.080	18.597
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	381.97	380.50	378.72	376.64	374.24	371.54	368.53	365.21	361.58
			Mz	0.48	0.27	0.08	-0.09	-0.22	-0.31	-0.39	-0.46	-0.54
		PP+1.35-CM+1.05-Q+1.5-V	N	-11.152	-11.152	-11.152	-11.152	-11.152	-11.152	-11.152	-11.152	-11.152
			Vy	0.988	0.988	0.840	0.674	0.508	0.342	0.315	0.315	0.315
			Vz	6.180	7.648	9.117	10.585	12.053	13.522	14.990	16.458	17.926
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	367.19	365.78	364.08	362.07	359.77	357.17	354.27	351.07	347.58
			Mz	0.44	0.24	0.06	-0.10	-0.22	-0.31	-0.37	-0.43	-0.50
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-11.111	-11.111	-11.111	-11.111	-11.111	-11.111	-11.111	-11.111	-11.111
			Vy	1.043	1.043	0.895	0.729	0.563	0.397	0.370	0.370	0.370
			Vz	6.561	8.102	9.642	11.182	12.723	14.263	15.803	17.344	18.884
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	387.65	386.16	384.36	382.24	379.81	377.06	374.01	370.63	366.95
			Mz	0.49	0.28	0.08	-0.09	-0.22	-0.32	-0.39	-0.47	-0.54
		PP+CM+1.5-Q+0.9-V	N	-6.519	-6.519	-6.519	-6.519	-6.519	-6.519	-6.519	-6.519	-6.519
			Vy	1.002	1.002	0.913	0.814	0.714	0.615	0.598	0.598	0.598
			Vz	8.084	10.033	11.982	13.931	15.880	17.829	19.778	21.727	23.675
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	484.44	482.60	480.36	477.72	474.69	471.26	467.44	463.22	458.60
			Mz	0.61	0.40	0.21	0.03	-0.12	-0.26	-0.38	-0.50	-0.62
		1.35·PP+CM+1.5·Q+0.9·V	N	-6.479	-6.479	-6.479	-6.479	-6.479	-6.479	-6.479	-6.479	-6.479
			Vy	1.057	1.057	0.968	0.869	0.769	0.670	0.653	0.653	0.653
			Vz	8.466	10.487	12.508	14.528	16.549	18.570	20.591	22.612	24.633
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	504.90	502.97	500.64	497.89	494.73	491.16	487.17	482.78	477.98
			Mz	0.65	0.44	0.23	0.05	-0.12	-0.27	-0.40	-0.53	-0.67
		PP+1.35·CM+1.5·Q+0.9·V	N	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517
			Vy	1.010	1.010	0.921	0.822	0.722	0.623	0.606	0.606	0.606
			Vz	8.189	10.161	12.132	14.104	16.076	18.047	20.019	21.991	23.962
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	490.12	488.26	485.99	483.32	480.25	476.78	472.91	468.64	463.97
			Mz	0.62	0.41	0.21	0.03	-0.12	-0.26	-0.38	-0.51	-0.63
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-6.476	-6.476	-6.476	-6.476	-6.476	-6.476	-6.476	-6.476	-6.476
			Vy	1.065	1.065	0.976	0.877	0.777	0.678	0.661	0.661	0.661
			Vz	8.570	10.614	12.658	14.701	16.745	18.789	20.833	22.876	24.920
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	510.59	508.63	506.27	503.49	500.29	496.67	492.65	488.20	483.34
			Mz	0.66	0.44	0.24	0.05	-0.12	-0.27	-0.40	-0.54	-0.67
		PP+CM+1.5·N	N	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639
			Vy	0.669	0.669	0.669	0.669	0.669	0.669	0.669	0.669	0.669
			Vz	3.494	3.963	4.433	4.902	5.371	5.841	6.310	6.779	7.249
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	163.54	162.78	161.93	160.98	159.93	158.79	157.56	156.23	154.80
			Mz	0.55	0.42	0.28	0.14	0.01	-0.13	-0.27	-0.40	-0.54
		1.35·PP+CM+1.5·N	N	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
			Vy	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724
			Vz	3.875	4.417	4.958	5.500	6.041	6.582	7.124	7.665	8.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	184.00	183.16	182.20	181.14	179.97	178.68	177.29	175.79	174.17
			Mz	0.60	0.45	0.30	0.16	0.01	-0.14	-0.29	-0.43	-0.58
		PP+1.35·CM+1.5·N	N	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
			Vy	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677
			Vz	3.599	4.091	4.583	5.075	5.567	6.059	6.551	7.043	7.535
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	169.22	168.44	167.56	166.58	165.49	164.31	163.03	161.65	160.17
			Mz	0.56	0.42	0.28	0.15	0.01	-0.13	-0.27	-0.41	-0.54
		1.35·PP+1.35·CM+1.5·N	N	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682
			Vy	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732
			Vz	3.980	4.544	5.108	5.672	6.237	6.801	7.365	7.929	8.493
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	189.68	188.82	187.84	186.74	185.53	184.20	182.76	181.21	179.54
			Mz	0.60	0.45	0.31	0.16	0.01	-0.14	-0.29	-0.44	-0.59
		PP+CM+1.05·Q+1.5·N	N	0.789	0.789	0.789	0.789	0.789	0.789	0.789	0.789	0.789
			Vy	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082
			Vz	8.182	9.826	11.469	13.113	14.757	16.401	18.045	19.688	21.332
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	450.37	448.53	446.37	443.87	441.04	437.87	434.36	430.53	426.36
			Mz	0.90	0.68	0.46	0.24	0.02	-0.20	-0.42	-0.64	-0.86
		1.35·PP+CM+1.05·Q+1.5·N	N	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829
			Vy	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137
			Vz	8.563	10.279	11.995	13.711	15.426	17.142	18.858	20.574	22.290
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	470.83	468.91	466.65	464.03	461.07	457.76	454.10	450.09	445.73
			Mz	0.94	0.71	0.48	0.25	0.02	-0.21	-0.45	-0.68	-0.91
		PP+1.35·CM+1.05·Q+1.5·N	N	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
			Vz	8.286	9.953	11.619	13.286	14.953	16.619	18.286	19.952	21.619
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	456.05	454.19	452.00	449.47	446.60	443.39	439.84	435.95	431.72
			Mz	0.90	0.68	0.46	0.24	0.02	-0.20	-0.43	-0.65	-0.87
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.832	0.832	0.832	0.832	0.832	0.832	0.832	0.832	0.832
			Vy	1.145	1.145	1.145	1.145	1.145	1.145	1.145	1.145	1.145
			Vz	8.667	10.406	12.145	13.883	15.622	17.361	19.099	20.838	22.577
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	476.51	474.57	472.28	469.63	466.63	463.28	459.57	455.51	451.09
			Mz	0.95	0.72	0.48	0.25	0.02	-0.22	-0.45	-0.68	-0.91
		PP+CM+0.9·V+1.5·N	N	-6.217	-6.217	-6.217	-6.217	-6.217	-6.217	-6.217	-6.217	-6.217
			Vy	0.901	0.901	0.812	0.713	0.613	0.514	0.497	0.497	0.497
			Vz	3.494	3.963	4.433	4.902	5.371	5.841	6.310	6.779	7.249
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	163.53	162.77	161.91	160.96	159.92	158.78	157.54	156.21	154.79
			Mz	0.52	0.33	0.16	0.00	-0.13	-0.25	-0.35	-0.45	-0.55
		1.35·PP+CM+0.9·V+1.5·N	N	-6.177	-6.177	-6.177	-6.177	-6.177	-6.177	-6.177	-6.177	-6.177
			Vy	0.956	0.956	0.867	0.768	0.668	0.569	0.552	0.552	0.552
			Vz	3.875	4.417	4.958	5.500	6.041	6.582	7.124	7.665	8.206
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	183.99	183.14	182.19	181.13	179.95	178.67	177.28	175.77	174.16
			Mz	0.56	0.37	0.18	0.02	-0.13	-0.26	-0.37	-0.48	-0.59
		PP+1.35·CM+0.9·V+1.5·N	N	-6.215	-6.215	-6.215	-6.215	-6.215	-6.215	-6.215	-6.215	-6.215
			Vy	0.909	0.909	0.820	0.721	0.621	0.522	0.505	0.505	0.505
			Vz	3.599	4.091	4.583	5.075	5.567	6.059	6.551	7.043	7.535
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	169.21	168.43	167.55	166.56	165.48	164.30	163.02	161.63	160.15
			Mz	0.52	0.34	0.16	0.00	-0.13	-0.25	-0.35	-0.45	-0.56
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-6.174	-6.174	-6.174	-6.174	-6.174	-6.174	-6.174	-6.174	-6.174
			Vy	0.964	0.964	0.875	0.776	0.676	0.577	0.560	0.560	0.560
			Vz	3.980	4.544	5.108	5.672	6.237	6.801	7.365	7.929	8.493
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	189.67	188.80	187.82	186.73	185.52	184.19	182.75	181.19	179.52
			Mz	0.57	0.37	0.18	0.02	-0.13	-0.26	-0.37	-0.49	-0.60
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.067	-6.067	-6.067	-6.067	-6.067	-6.067	-6.067	-6.067	-6.067
			Vy	1.314	1.314	1.225	1.126	1.026	0.927	0.910	0.910	0.910
			Vz	8.182	9.826	11.469	13.113	14.757	16.401	18.045	19.688	21.332
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	450.35	448.52	446.36	443.86	441.02	437.85	434.35	430.51	426.34
			Mz	0.86	0.60	0.34	0.10	-0.12	-0.32	-0.51	-0.69	-0.88
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-6.027	-6.027	-6.027	-6.027	-6.027	-6.027	-6.027	-6.027	-6.027
			Vy	1.369	1.369	1.280	1.181	1.081	0.982	0.965	0.965	0.965
			Vz	8.563	10.279	11.995	13.711	15.426	17.142	18.858	20.574	22.290
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	470.81	468.90	466.63	464.02	461.06	457.74	454.08	450.07	445.71
			Mz	0.91	0.63	0.36	0.11	-0.12	-0.33	-0.53	-0.72	-0.92
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.065	-6.065	-6.065	-6.065	-6.065	-6.065	-6.065	-6.065	-6.065
			Vy	1.322	1.322	1.233	1.134	1.034	0.935	0.918	0.918	0.918
			Vz	8.286	9.953	11.619	13.286	14.953	16.619	18.286	19.952	21.619
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	456.04	454.18	451.99	449.46	446.58	443.37	439.82	435.94	431.71
			Mz	0.87	0.60	0.34	0.10	-0.12	-0.32	-0.51	-0.70	-0.88
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-6.024	-6.024	-6.024	-6.024	-6.024	-6.024	-6.024	-6.024	-6.024
			Vy	1.377	1.377	1.288	1.189	1.089	0.990	0.973	0.973	0.973
			Vz	8.667	10.406	12.145	13.883	15.622	17.361	19.099	20.838	22.577
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	476.50	474.56	472.26	469.62	466.62	463.26	459.56	455.49	451.08
			Mz	0.91	0.63	0.36	0.11	-0.12	-0.33	-0.53	-0.73	-0.93
		PP+CM+1.5·Q+0.75·N	N	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
			Vy	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
			Vz	9.138	11.186	13.234	15.282	17.330	19.378	21.426	23.474	25.522
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	528.87	526.81	524.32	521.42	518.11	514.37	510.23	505.66	500.68
			Mz	0.84	0.64	0.43	0.23	0.02	-0.19	-0.39	-0.60	-0.81
		1.35·PP+CM+1.5·Q+0.75·N	N	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636
			Vy	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070
			Vz	9.519	11.639	13.759	15.879	17.999	20.119	22.239	24.359	26.480
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	549.33	547.18	544.60	541.59	538.14	534.26	529.96	525.22	520.05
			Mz	0.89	0.67	0.45	0.24	0.02	-0.20	-0.42	-0.63	-0.85
		PP+1.35·CM+1.5·Q+0.75·N	N	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597
			Vy	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023
			Vz	9.242	11.313	13.384	15.455	17.525	19.596	21.667	23.738	25.808
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	534.56	532.47	529.95	527.02	523.67	519.89	515.70	511.08	506.04
			Mz	0.85	0.64	0.43	0.23	0.02	-0.19	-0.40	-0.61	-0.81
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638
			Vy	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078
			Vz	9.623	11.766	13.909	16.052	18.195	20.338	22.481	24.623	26.766
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	555.02	552.84	550.23	547.19	543.70	539.78	535.43	530.64	525.41
			Mz	0.90	0.68	0.46	0.24	0.02	-0.20	-0.42	-0.64	-0.86
		PP+CM+1.5·V+0.75·N	N	-11.046	-11.046	-11.046	-11.046	-11.046	-11.046	-11.046	-11.046	-11.046
			Vy	0.811	0.811	0.663	0.497	0.331	0.165	0.138	0.138	0.138
			Vz	2.441	2.811	3.181	3.552	3.922	4.292	4.662	5.032	5.402
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	119.10	118.56	117.95	117.27	116.51	115.67	114.76	113.78	112.72
			Mz	0.29	0.13	-0.02	-0.14	-0.23	-0.28	-0.31	-0.33	-0.36
		1.35·PP+CM+1.5·V+0.75·N	N	-11.006	-11.006	-11.006	-11.006	-11.006	-11.006	-11.006	-11.006	-11.006
			Vy	0.866	0.866	0.718	0.552	0.386	0.220	0.193	0.193	0.193
			Vz	2.822	3.264	3.707	4.149	4.591	5.033	5.476	5.918	6.360
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	139.56	138.94	138.23	137.43	136.54	135.56	134.50	133.34	132.09
			Mz	0.34	0.16	0.00	-0.13	-0.23	-0.29	-0.33	-0.37	-0.41
		PP+1.35·CM+1.5·V+0.75·N	N	-11.044	-11.044	-11.044	-11.044	-11.044	-11.044	-11.044	-11.044	-11.044
			Vy	0.819	0.819	0.671	0.505	0.339	0.173	0.146	0.146	0.146
			Vz	2.546	2.939	3.331	3.724	4.117	4.510	4.903	5.296	5.689
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	124.78	124.22	123.59	122.87	122.07	121.19	120.24	119.20	118.08
			Mz	0.30	0.13	-0.02	-0.14	-0.23	-0.28	-0.31	-0.34	-0.37
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-11.003	-11.003	-11.003	-11.003	-11.003	-11.003	-11.003	-11.003	-11.003
			Vy	0.874	0.874	0.726	0.560	0.394	0.228	0.201	0.201	0.201
			Vz	2.927	3.392	3.857	4.322	4.787	5.252	5.717	6.182	6.647
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	145.24	144.60	143.86	143.03	142.11	141.08	139.97	138.76	137.45
			Mz	0.34	0.17	0.00	-0.13	-0.23	-0.29	-0.33	-0.37	-0.41
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-10.896	-10.896	-10.896	-10.896	-10.896	-10.896	-10.896	-10.896	-10.896
			Vy	1.224	1.224	1.076	0.910	0.744	0.578	0.551	0.551	0.551
			Vz	7.129	8.673	10.218	11.763	13.307	14.852	16.397	17.941	19.486
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	405.92	404.32	402.40	400.16	397.61	394.75	391.57	388.08	384.27
			Mz	0.64	0.39	0.15	-0.05	-0.22	-0.35	-0.46	-0.58	-0.69
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-10.855	-10.855	-10.855	-10.855	-10.855	-10.855	-10.855	-10.855	-10.855

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	1.279	1.279	1.131	0.965	0.799	0.633	0.606	0.606	0.606
			Vz	7.510	9.127	10.743	12.360	13.977	15.593	17.210	18.827	20.444
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	426.39	424.69	422.67	420.32	417.65	414.64	411.30	407.64	403.65
			Mz	0.68	0.42	0.18	-0.04	-0.22	-0.36	-0.49	-0.61	-0.73
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-10.894	-10.894	-10.894	-10.894	-10.894	-10.894	-10.894	-10.894	-10.894
			Vy	1.232	1.232	1.084	0.918	0.752	0.586	0.559	0.559	0.559
			Vz	7.233	8.801	10.368	11.935	13.503	15.070	16.638	18.205	19.773
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	411.61	409.98	408.03	405.76	403.17	400.27	397.04	393.50	389.64
			Mz	0.64	0.39	0.16	-0.05	-0.22	-0.35	-0.47	-0.58	-0.69
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-10.853	-10.853	-10.853	-10.853	-10.853	-10.853	-10.853	-10.853	-10.853
			Vy	1.287	1.287	1.139	0.973	0.807	0.641	0.614	0.614	0.614
			Vz	7.614	9.254	10.893	12.533	14.172	15.812	17.451	19.091	20.731
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	432.07	430.35	428.31	425.92	423.21	420.16	416.78	413.06	409.01
			Mz	0.69	0.43	0.18	-0.03	-0.22	-0.36	-0.49	-0.61	-0.74
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-6.261	-6.261	-6.261	-6.261	-6.261	-6.261	-6.261	-6.261	-6.261
			Vy	1.247	1.247	1.158	1.058	0.959	0.859	0.843	0.843	0.843
			Vz	9.138	11.186	13.234	15.282	17.330	19.378	21.426	23.474	25.522
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	528.86	526.79	524.31	521.41	518.09	514.36	510.21	505.65	500.66
			Mz	0.81	0.56	0.31	0.09	-0.12	-0.30	-0.48	-0.65	-0.82
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-6.220	-6.220	-6.220	-6.220	-6.220	-6.220	-6.220	-6.220	-6.220
			Vy	1.302	1.302	1.213	1.113	1.014	0.914	0.898	0.898	0.898
			Vz	9.519	11.639	13.759	15.879	17.999	20.119	22.239	24.359	26.480
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	549.32	547.17	544.59	541.57	538.13	534.25	529.94	525.21	520.04
			Mz	0.85	0.59	0.33	0.10	-0.12	-0.32	-0.50	-0.68	-0.86
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.259	-6.259	-6.259	-6.259	-6.259	-6.259	-6.259	-6.259	-6.259
			Vy	1.255	1.255	1.166	1.066	0.967	0.867	0.851	0.851	0.851
			Vz	9.242	11.313	13.384	15.455	17.525	19.596	21.667	23.738	25.808
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	534.54	532.45	529.94	527.01	523.66	519.88	515.68	511.07	506.03
			Mz	0.82	0.56	0.31	0.09	-0.12	-0.31	-0.48	-0.65	-0.83
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-6.218	-6.218	-6.218	-6.218	-6.218	-6.218	-6.218	-6.218	-6.218
			Vy	1.310	1.310	1.221	1.121	1.022	0.922	0.906	0.906	0.906
			Vz	9.623	11.766	13.909	16.052	18.195	20.338	22.481	24.623	26.766
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	555.00	552.83	550.22	547.17	543.69	539.77	535.42	530.63	525.40
			Mz	0.86	0.60	0.34	0.10	-0.12	-0.32	-0.50	-0.69	-0.87

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m	
N19/N21	Madera	PP+CM	N	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	
			Vy	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
			Vz	3.822	4.093	4.364	4.635	4.906	5.177	5.448	5.719	5.990	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	70.68	69.87	69.01	68.10	67.13	66.10	65.02	63.89	62.70	
			Mz	-0.14	-0.11	-0.07	-0.04	0.00	0.03	0.07	0.10	0.14	
		1.35·PP+CM	N	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197
			Vy	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224
			Vz	4.873	5.216	5.559	5.903	6.246	6.589	6.932	7.275	7.618	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	90.05	89.03	87.93	86.76	85.53	84.22	82.85	81.40	79.89	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.19	-0.14	-0.10	-0.05	-0.01	0.04	0.09	0.13	0.18
		PP+1.35·CM	N	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154
			Vy	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179	-0.179
			Vz	4.108	4.402	4.696	4.990	5.283	5.577	5.871	6.165	6.459
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	76.04	75.18	74.25	73.27	72.22	71.12	69.96	68.73	67.45
			Mz	-0.15	-0.11	-0.08	-0.04	0.00	0.03	0.07	0.10	0.14
		1.35·PP+1.35·CM	N	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202
			Vy	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232
			Vz	5.160	5.525	5.891	6.257	6.623	6.989	7.355	7.721	8.087
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	95.42	94.33	93.17	91.93	90.62	89.24	87.78	86.25	84.64
			Mz	-0.19	-0.15	-0.10	-0.05	-0.01	0.04	0.09	0.14	0.18
		PP+CM+1.5·Q	N	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425
			Vy	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714
			Vz	23.939	25.888	27.836	29.785	31.734	33.683	35.632	37.581	39.530
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	458.61	453.55	448.08	442.22	435.97	429.32	422.27	414.82	406.98
			Mz	-0.61	-0.47	-0.32	-0.18	-0.03	0.12	0.26	0.41	0.55
		1.35·PP+CM+1.5·Q	N	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473
			Vy	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767
			Vz	24.990	27.011	29.032	31.053	33.074	35.095	37.116	39.137	41.158
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	477.99	472.70	467.00	460.89	454.37	447.44	440.09	432.34	424.18
			Mz	-0.65	-0.50	-0.34	-0.19	-0.03	0.12	0.28	0.44	0.59
		PP+1.35·CM+1.5·Q	N	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429
			Vy	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721
			Vz	24.225	26.197	28.168	30.140	32.112	34.083	36.055	38.027	39.998
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	463.98	458.85	453.32	447.40	441.06	434.33	427.20	419.67	411.73
			Mz	-0.62	-0.47	-0.32	-0.18	-0.03	0.12	0.26	0.41	0.56
		1.35·PP+1.35·CM+1.5·Q	N	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477
			Vy	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774
			Vz	25.276	27.320	29.364	31.408	33.451	35.495	37.539	39.583	41.626
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	483.35	478.00	472.24	466.06	459.46	452.45	445.03	437.18	428.93
			Mz	-0.66	-0.50	-0.35	-0.19	-0.03	0.13	0.28	0.44	0.60
		PP+CM+1.5·V	N	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561
			Vy	0.215	0.215	0.066	-0.100	-0.266	-0.432	-0.459	-0.459	-0.459
			Vz	3.822	4.093	4.364	4.635	4.906	5.177	5.448	5.719	5.990
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	70.72	69.91	69.05	68.14	67.17	66.14	65.06	63.92	62.73
			Mz	-0.20	-0.25	-0.28	-0.27	-0.24	-0.16	-0.07	0.02	0.11
		1.35·PP+CM+1.5·V	N	-9.514	-9.514	-9.514	-9.514	-9.514	-9.514	-9.514	-9.514	-9.514
			Vy	0.162	0.162	0.014	-0.152	-0.318	-0.484	-0.511	-0.511	-0.511
			Vz	4.873	5.216	5.559	5.903	6.246	6.589	6.932	7.275	7.618
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	90.09	89.06	87.97	86.80	85.57	84.26	82.89	81.44	79.93
			Mz	-0.25	-0.28	-0.30	-0.28	-0.24	-0.15	-0.05	0.05	0.16
		PP+1.35·CM+1.5·V	N	-9.557	-9.557	-9.557	-9.557	-9.557	-9.557	-9.557	-9.557	-9.557
			Vy	0.207	0.207	0.059	-0.107	-0.273	-0.439	-0.466	-0.466	-0.466
			Vz	4.108	4.402	4.696	4.990	5.283	5.577	5.871	6.165	6.459
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	76.08	75.22	74.29	73.31	72.26	71.16	69.99	68.77	67.49
			Mz	-0.21	-0.25	-0.28	-0.27	-0.24	-0.16	-0.07	0.03	0.12
		1.35·PP+1.35·CM+1.5·V	N	-9.509	-9.509	-9.509	-9.509	-9.509	-9.509	-9.509	-9.509	-9.509
			Vy	0.155	0.155	0.006	-0.160	-0.326	-0.492	-0.519	-0.519	-0.519

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	5.160	5.525	5.891	6.257	6.623	6.989	7.355	7.721	8.087
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	95.45	94.37	93.21	91.97	90.66	89.28	87.82	86.29	84.68
			Mz	-0.25	-0.28	-0.30	-0.29	-0.24	-0.15	-0.05	0.06	0.16
		PP+CM+1.05·Q+1.5·V	N	-9.369	-9.369	-9.369	-9.369	-9.369	-9.369	-9.369	-9.369	-9.369
			Vy	-0.165	-0.165	-0.313	-0.479	-0.645	-0.811	-0.838	-0.838	-0.838
			Vz	17.904	19.349	20.795	22.240	23.686	25.131	26.577	28.022	29.468
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	342.27	338.48	334.40	330.02	325.35	320.39	315.13	309.58	303.73
			Mz	-0.53	-0.50	-0.45	-0.37	-0.25	-0.11	0.06	0.24	0.41
		1.35·PP+CM+1.05·Q+1.5·V	N	-9.321	-9.321	-9.321	-9.321	-9.321	-9.321	-9.321	-9.321	-9.321
			Vy	-0.218	-0.218	-0.366	-0.532	-0.698	-0.864	-0.891	-0.891	-0.891
			Vz	18.955	20.473	21.990	23.508	25.025	26.543	28.061	29.578	31.096
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	361.64	357.63	353.32	348.69	343.75	338.51	332.96	327.10	320.93
			Mz	-0.57	-0.53	-0.47	-0.38	-0.25	-0.10	0.09	0.27	0.45
		PP+1.35·CM+1.05·Q+1.5·V	N	-9.364	-9.364	-9.364	-9.364	-9.364	-9.364	-9.364	-9.364	-9.364
			Vy	-0.172	-0.172	-0.321	-0.487	-0.652	-0.818	-0.845	-0.845	-0.845
			Vz	18.190	19.658	21.127	22.595	24.063	25.532	27.000	28.468	29.936
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	347.64	343.79	339.64	335.19	330.45	325.41	320.06	314.42	308.49
			Mz	-0.53	-0.50	-0.45	-0.37	-0.25	-0.10	0.07	0.24	0.41
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-9.316	-9.316	-9.316	-9.316	-9.316	-9.316	-9.316	-9.316	-9.316
			Vy	-0.225	-0.225	-0.373	-0.539	-0.705	-0.871	-0.898	-0.898	-0.898
			Vz	19.241	20.782	22.322	23.862	25.403	26.943	28.484	30.024	31.564
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	367.01	362.94	358.56	353.86	348.85	343.53	337.89	331.94	325.68
			Mz	-0.58	-0.53	-0.47	-0.38	-0.25	-0.09	0.09	0.27	0.45
		PP+CM+1.5·Q+0.9·V	N	-5.402	-5.402	-5.402	-5.402	-5.402	-5.402	-5.402	-5.402	-5.402
			Vy	-0.482	-0.482	-0.571	-0.671	-0.770	-0.870	-0.886	-0.886	-0.886
			Vz	23.939	25.888	27.836	29.785	31.734	33.683	35.632	37.581	39.530
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	458.64	453.57	448.11	442.25	435.99	429.34	422.29	414.85	407.00
			Mz	-0.65	-0.55	-0.44	-0.31	-0.17	0.00	0.18	0.36	0.54
		1.35·PP+CM+1.5·Q+0.9·V	N	-5.354	-5.354	-5.354	-5.354	-5.354	-5.354	-5.354	-5.354	-5.354
			Vy	-0.535	-0.535	-0.624	-0.723	-0.823	-0.922	-0.939	-0.939	-0.939
			Vz	24.990	27.011	29.032	31.053	33.074	35.095	37.116	39.137	41.158
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	478.01	472.72	467.02	460.91	454.39	447.46	440.12	432.36	424.20
			Mz	-0.69	-0.58	-0.46	-0.33	-0.17	0.01	0.20	0.39	0.58
		PP+1.35·CM+1.5·Q+0.9·V	N	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397
			Vy	-0.489	-0.489	-0.578	-0.678	-0.778	-0.877	-0.893	-0.893	-0.893
			Vz	24.225	26.197	28.168	30.140	32.112	34.083	36.055	38.027	39.998
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	464.00	458.87	453.35	447.42	441.09	434.36	427.22	419.69	411.76
			Mz	-0.65	-0.55	-0.44	-0.32	-0.17	0.00	0.18	0.36	0.54
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-5.349	-5.349	-5.349	-5.349	-5.349	-5.349	-5.349	-5.349	-5.349
			Vy	-0.542	-0.542	-0.631	-0.731	-0.830	-0.930	-0.946	-0.946	-0.946
			Vz	25.276	27.320	29.364	31.408	33.451	35.495	37.539	39.583	41.626
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	483.37	478.03	472.26	466.08	459.49	452.48	445.05	437.21	428.95
			Mz	-0.70	-0.59	-0.47	-0.33	-0.17	0.01	0.20	0.39	0.59
		PP+CM+1.5·N	N	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744
			Vy	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653
			Vz	8.830	9.300	9.769	10.238	10.707	11.177	11.646	12.115	12.585
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	154.80	152.96	151.02	148.98	146.85	144.63	142.31	139.89	137.38

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.54	-0.41	-0.27	-0.14	-0.01	0.12	0.26	0.39	0.52
		1.35-PP+CM+1.5-N	N	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792
			Vy	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
			Vz	9.882	10.423	10.964	11.506	12.047	12.589	13.130	13.671	14.213
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	174.17	172.11	169.93	167.65	165.25	162.75	160.13	157.41	154.57
			Mz	-0.58	-0.44	-0.30	-0.15	-0.01	0.13	0.28	0.42	0.56
		PP+1.35-CM+1.5-N	N	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749
			Vy	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660
			Vz	9.117	9.609	10.101	10.593	11.085	11.577	12.069	12.561	13.053
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	160.17	158.26	156.26	154.15	151.95	149.65	147.24	144.74	142.13
			Mz	-0.55	-0.41	-0.28	-0.14	-0.01	0.13	0.26	0.39	0.53
		1.35-PP+1.35-CM+1.5-N	N	0.797	0.797	0.797	0.797	0.797	0.797	0.797	0.797	0.797
			Vy	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713
			Vz	10.168	10.732	11.296	11.860	12.425	12.989	13.553	14.117	14.681
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	179.54	177.41	175.17	172.82	170.35	167.77	165.07	162.25	159.32
			Mz	-0.59	-0.44	-0.30	-0.15	-0.01	0.14	0.28	0.43	0.57
		PP+CM+1.05-Q+1.5-N	N	0.937	0.937	0.937	0.937	0.937	0.937	0.937	0.937	0.937
			Vy	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032	-1.032
			Vz	22.912	24.556	26.200	27.843	29.487	31.131	32.775	34.419	36.062
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	426.36	421.53	416.37	410.87	405.04	398.88	392.38	385.55	378.38
			Mz	-0.87	-0.66	-0.45	-0.24	-0.03	0.18	0.39	0.60	0.81
		1.35-PP+CM+1.05-Q+1.5-N	N	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
			Vy	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085
			Vz	23.963	25.679	27.395	29.111	30.827	32.543	34.259	35.975	37.690
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	445.73	440.68	435.28	429.54	423.44	417.00	410.21	403.06	395.57
			Mz	-0.91	-0.69	-0.47	-0.25	-0.03	0.19	0.41	0.63	0.86
		PP+1.35-CM+1.05-Q+1.5-N	N	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942
			Vy	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040
			Vz	23.198	24.865	26.532	28.198	29.865	31.531	33.198	34.864	36.531
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	431.72	426.83	421.61	416.04	410.14	403.90	397.31	390.39	383.13
			Mz	-0.87	-0.66	-0.45	-0.24	-0.03	0.19	0.40	0.61	0.82
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	0.989	0.989	0.989	0.989	0.989	0.989	0.989	0.989	0.989
			Vy	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092	-1.092
			Vz	24.250	25.988	27.727	29.466	31.204	32.943	34.682	36.420	38.159
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	451.09	445.99	440.52	434.71	428.54	422.01	415.14	407.91	400.32
			Mz	-0.92	-0.69	-0.47	-0.25	-0.03	0.19	0.42	0.64	0.86
		PP+CM+0.9-V+1.5-N	N	-5.082	-5.082	-5.082	-5.082	-5.082	-5.082	-5.082	-5.082	-5.082
			Vy	-0.421	-0.421	-0.510	-0.610	-0.709	-0.809	-0.825	-0.825	-0.825
			Vz	8.830	9.300	9.769	10.238	10.707	11.177	11.646	12.115	12.585
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	154.82	152.98	151.04	149.01	146.88	144.65	142.33	139.91	137.40
			Mz	-0.57	-0.49	-0.39	-0.28	-0.15	0.01	0.18	0.34	0.51
		1.35-PP+CM+0.9-V+1.5-N	N	-5.035	-5.035	-5.035	-5.035	-5.035	-5.035	-5.035	-5.035	-5.035
			Vy	-0.474	-0.474	-0.563	-0.662	-0.762	-0.861	-0.878	-0.878	-0.878
			Vz	9.882	10.423	10.964	11.506	12.047	12.589	13.130	13.671	14.213
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	174.20	172.13	169.96	167.67	165.28	162.77	160.16	157.43	154.60
			Mz	-0.62	-0.52	-0.42	-0.29	-0.15	0.02	0.20	0.37	0.55
		PP+1.35-CM+0.9-V+1.5-N	N	-5.078	-5.078	-5.078	-5.078	-5.078	-5.078	-5.078	-5.078	-5.078
			Vy	-0.428	-0.428	-0.517	-0.617	-0.717	-0.816	-0.832	-0.832	-0.832

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	9.117	9.609	10.101	10.593	11.085	11.577	12.069	12.561	13.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	160.19	158.29	156.28	154.18	151.97	149.67	147.26	144.76	142.15
			Mz	-0.58	-0.49	-0.40	-0.28	-0.15	0.01	0.18	0.35	0.52
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-5.030	-5.030	-5.030	-5.030	-5.030	-5.030	-5.030	-5.030	-5.030
			Vy	-0.481	-0.481	-0.570	-0.670	-0.769	-0.869	-0.885	-0.885	-0.885
			Vz	10.168	10.732	11.296	11.860	12.425	12.989	13.553	14.117	14.681
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	179.56	177.44	175.20	172.84	170.37	167.79	165.09	162.28	159.35
			Mz	-0.62	-0.53	-0.42	-0.29	-0.15	0.02	0.20	0.38	0.56
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-4.890	-4.890	-4.890	-4.890	-4.890	-4.890	-4.890	-4.890	-4.890
			Vy	-0.801	-0.801	-0.890	-0.989	-1.089	-1.188	-1.204	-1.204	-1.204
			Vz	22.912	24.556	26.200	27.843	29.487	31.131	32.775	34.419	36.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	426.38	421.55	416.39	410.89	405.06	398.90	392.40	385.57	378.40
			Mz	-0.90	-0.74	-0.57	-0.38	-0.16	0.07	0.31	0.56	0.80
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842
			Vy	-0.853	-0.853	-0.942	-1.042	-1.141	-1.241	-1.257	-1.257	-1.257
			Vz	23.963	25.679	27.395	29.111	30.827	32.543	34.259	35.975	37.690
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	445.75	440.70	435.31	429.56	423.46	417.02	410.23	403.09	395.60
			Mz	-0.94	-0.77	-0.59	-0.39	-0.17	0.08	0.33	0.59	0.84
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-4.885	-4.885	-4.885	-4.885	-4.885	-4.885	-4.885	-4.885	-4.885
			Vy	-0.808	-0.808	-0.897	-0.996	-1.096	-1.196	-1.212	-1.212	-1.212
			Vz	23.198	24.865	26.532	28.198	29.865	31.531	33.198	34.864	36.531
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	431.74	426.86	421.63	416.06	410.16	403.92	397.34	390.41	383.15
			Mz	-0.91	-0.74	-0.57	-0.38	-0.16	0.07	0.31	0.56	0.81
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-4.837	-4.837	-4.837	-4.837	-4.837	-4.837	-4.837	-4.837	-4.837
			Vy	-0.861	-0.861	-0.950	-1.049	-1.149	-1.248	-1.265	-1.265	-1.265
			Vz	24.250	25.988	27.727	29.466	31.204	32.943	34.682	36.420	38.159
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	451.12	446.01	440.55	434.73	428.56	422.04	415.16	407.93	400.35
			Mz	-0.95	-0.78	-0.59	-0.39	-0.17	0.08	0.33	0.59	0.85
		PP+CM+1.5·Q+0.75·N	N	0.722	0.722	0.722	0.722	0.722	0.722	0.722	0.722	0.722
			Vy	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954	-0.954
			Vz	26.443	28.491	30.539	32.587	34.635	36.683	38.731	40.779	42.827
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	500.68	495.09	489.09	482.67	475.83	468.58	460.91	452.83	444.32
			Mz	-0.81	-0.61	-0.42	-0.23	-0.03	0.16	0.36	0.55	0.74
		1.35·PP+CM+1.5·Q+0.75·N	N	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
			Vy	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007
			Vz	27.494	29.614	31.734	33.855	35.975	38.095	40.215	42.335	44.455
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	520.05	514.24	508.00	501.33	494.23	486.70	478.74	470.34	461.52
			Mz	-0.85	-0.65	-0.44	-0.24	-0.03	0.17	0.38	0.58	0.79
		PP+1.35·CM+1.5·Q+0.75·N	N	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727
			Vy	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962
			Vz	26.729	28.800	30.871	32.942	35.012	37.083	39.154	41.225	43.296
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	506.04	500.39	494.33	487.84	480.93	473.60	465.84	457.67	449.08
			Mz	-0.81	-0.62	-0.42	-0.23	-0.03	0.16	0.36	0.55	0.75
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775
			Vy	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014	-1.014
			Vz	27.781	29.923	32.066	34.209	36.352	38.495	40.638	42.781	44.924
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	525.41	519.55	513.24	506.50	499.33	491.72	483.67	475.19	466.27

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.86	-0.65	-0.45	-0.24	-0.03	0.17	0.38	0.59	0.79
		PP+CM+1.5·V+0.75·N	N	-9.264	-9.264	-9.264	-9.264	-9.264	-9.264	-9.264	-9.264	-9.264
			Vy	-0.026	-0.026	-0.174	-0.340	-0.506	-0.672	-0.699	-0.699	-0.699
			Vz	6.326	6.696	7.066	7.437	7.807	8.177	8.547	8.917	9.287
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	112.78	111.45	110.05	108.58	107.03	105.40	103.70	101.93	100.08
			Mz	-0.40	-0.39	-0.38	-0.32	-0.24	-0.12	0.02	0.17	0.31
		1.35·PP+CM+1.5·V+0.75·N	N	-9.216	-9.216	-9.216	-9.216	-9.216	-9.216	-9.216	-9.216	-9.216
			Vy	-0.079	-0.079	-0.227	-0.393	-0.559	-0.725	-0.752	-0.752	-0.752
			Vz	7.377	7.820	8.262	8.704	9.146	9.589	10.031	10.473	10.915
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	132.15	130.60	128.97	127.24	125.43	123.52	121.53	119.44	117.27
			Mz	-0.44	-0.43	-0.40	-0.34	-0.24	-0.11	0.04	0.20	0.35
		PP+1.35·CM+1.5·V+0.75·N	N	-9.259	-9.259	-9.259	-9.259	-9.259	-9.259	-9.259	-9.259	-9.259
			Vy	-0.033	-0.033	-0.182	-0.348	-0.514	-0.680	-0.707	-0.707	-0.707
			Vz	6.612	7.005	7.398	7.791	8.184	8.577	8.970	9.363	9.756
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	118.14	116.76	115.29	113.75	112.12	110.42	108.64	106.77	104.83
			Mz	-0.41	-0.40	-0.38	-0.33	-0.24	-0.12	0.03	0.17	0.31
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-9.212	-9.212	-9.212	-9.212	-9.212	-9.212	-9.212	-9.212	-9.212
			Vy	-0.086	-0.086	-0.234	-0.400	-0.566	-0.732	-0.759	-0.759	-0.759
			Vz	7.664	8.129	8.594	9.059	9.524	9.989	10.454	10.919	11.384
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	137.51	135.91	134.21	132.41	130.52	128.54	126.46	124.29	122.02
			Mz	-0.45	-0.43	-0.40	-0.34	-0.24	-0.11	0.05	0.20	0.36
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-9.072	-9.072	-9.072	-9.072	-9.072	-9.072	-9.072	-9.072	-9.072
			Vy	-0.405	-0.405	-0.554	-0.720	-0.886	-1.052	-1.079	-1.079	-1.079
			Vz	20.408	21.953	23.497	25.042	26.586	28.131	29.676	31.220	32.765
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	384.33	380.02	375.40	370.47	365.22	359.65	353.77	347.58	341.08
			Mz	-0.73	-0.64	-0.55	-0.42	-0.25	-0.06	0.16	0.38	0.60
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-9.024	-9.024	-9.024	-9.024	-9.024	-9.024	-9.024	-9.024	-9.024
			Vy	-0.458	-0.458	-0.607	-0.772	-0.938	-1.104	-1.131	-1.131	-1.131
			Vz	21.459	23.076	24.693	26.309	27.926	29.543	31.160	32.776	34.393
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	403.70	399.18	394.32	389.13	383.62	377.77	371.60	365.10	358.27
			Mz	-0.77	-0.68	-0.57	-0.43	-0.26	-0.05	0.18	0.41	0.64
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-9.067	-9.067	-9.067	-9.067	-9.067	-9.067	-9.067	-9.067	-9.067
			Vy	-0.413	-0.413	-0.561	-0.727	-0.893	-1.059	-1.086	-1.086	-1.086
			Vz	20.694	22.262	23.829	25.397	26.964	28.531	30.099	31.666	33.234
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	389.70	385.33	380.64	375.64	370.31	364.67	358.71	352.43	345.83
			Mz	-0.73	-0.65	-0.55	-0.42	-0.26	-0.06	0.16	0.38	0.61
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-9.019	-9.019	-9.019	-9.019	-9.019	-9.019	-9.019	-9.019	-9.019
			Vy	-0.466	-0.466	-0.614	-0.780	-0.946	-1.112	-1.139	-1.139	-1.139
			Vz	21.746	23.385	25.025	26.664	28.304	29.943	31.583	33.222	34.862
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	409.07	404.48	399.56	394.30	388.71	382.79	376.53	369.94	363.02
			Mz	-0.78	-0.68	-0.57	-0.43	-0.26	-0.05	0.18	0.42	0.65
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-5.105	-5.105	-5.105	-5.105	-5.105	-5.105	-5.105	-5.105	-5.105
			Vy	-0.723	-0.723	-0.812	-0.911	-1.011	-1.110	-1.127	-1.127	-1.127
			Vz	26.443	28.491	30.539	32.587	34.635	36.683	38.731	40.779	42.827
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	500.70	495.11	489.11	482.69	475.85	468.60	460.93	452.85	444.35
			Mz	-0.84	-0.70	-0.54	-0.37	-0.17	0.05	0.27	0.50	0.73
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-5.057	-5.057	-5.057	-5.057	-5.057	-5.057	-5.057	-5.057	-5.057
			Vy	-0.775	-0.775	-0.864	-0.964	-1.063	-1.163	-1.179	-1.179	-1.179

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m	
			Vz	27.494	29.614	31.734	33.855	35.975	38.095	40.215	42.335	44.455	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	520.07	514.26	508.02	501.35	494.25	486.72	478.76	470.36	461.54	
			Mz	-0.89	-0.73	-0.56	-0.38	-0.17	0.05	0.29	0.53	0.77	
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-5.100	-5.100	-5.100	-5.100	-5.100	-5.100	-5.100	-5.100	-5.100	-5.100
			Vy	-0.730	-0.730	-0.819	-0.919	-1.018	-1.118	-1.134	-1.134	-1.134	-1.134
			Vz	26.729	28.800	30.871	32.942	35.012	37.083	39.154	41.225	43.296	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	506.06	500.42	494.35	487.86	480.95	473.62	465.87	457.69	449.10	
			Mz	-0.85	-0.70	-0.54	-0.37	-0.17	0.05	0.28	0.51	0.74	
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-5.052	-5.052	-5.052	-5.052	-5.052	-5.052	-5.052	-5.052	-5.052	-5.052
			Vy	-0.783	-0.783	-0.872	-0.971	-1.071	-1.170	-1.187	-1.187	-1.187	-1.187
	Vz		27.781	29.923	32.066	34.209	36.352	38.495	40.638	42.781	44.924		
	Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	My		525.44	519.57	513.26	506.52	499.35	491.74	483.69	475.21	466.29		
	Mz		-0.89	-0.73	-0.57	-0.38	-0.17	0.06	0.30	0.54	0.78		

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N21/N23	Madera	PP+CM	N	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152
			Vy	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
			Vz	6.256	6.527	6.798	7.069	7.340	7.611	7.882	8.153	8.424
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	62.70	61.40	60.04	58.63	57.17	55.64	54.07	52.44	50.75
			Mz	0.13	0.10	0.07	0.04	0.01	-0.02	-0.06	-0.09	-0.12
		1.35·PP+CM	N	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203
			Vy	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
			Vz	7.978	8.321	8.664	9.007	9.350	9.693	10.036	10.379	10.723
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	79.89	78.23	76.50	74.71	72.84	70.90	68.90	66.82	64.68
			Mz	0.18	0.13	0.09	0.05	0.01	-0.03	-0.07	-0.11	-0.16
		PP+1.35·CM	N	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155
			Vy	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
			Vz	6.724	7.018	7.312	7.606	7.900	8.193	8.487	8.781	9.075
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	67.45	66.05	64.59	63.08	61.50	59.86	58.17	56.41	54.59
			Mz	0.14	0.11	0.07	0.04	0.01	-0.02	-0.06	-0.09	-0.12
		1.35·PP+1.35·CM	N	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
			Vy	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
			Vz	8.446	8.812	9.178	9.544	9.909	10.275	10.641	11.007	11.373
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	84.64	82.88	81.05	79.15	77.17	75.12	72.99	70.79	68.52
			Mz	0.18	0.14	0.10	0.05	0.01	-0.03	-0.07	-0.12	-0.16
		PP+CM+1.5·Q	N	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410
			Vy	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615
			Vz	39.793	41.742	43.691	45.640	47.589	49.538	51.487	53.435	55.384
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	406.97	398.68	389.99	380.91	371.43	361.55	351.28	340.61	329.55
			Mz	0.55	0.42	0.30	0.17	0.05	-0.08	-0.20	-0.33	-0.45
		1.35·PP+CM+1.5·Q	N	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461
			Vy	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
			Vz	41.515	43.536	45.557	47.578	49.599	51.620	53.641	55.661	57.682
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	424.17	415.52	406.46	396.99	387.11	376.81	366.11	354.99	343.47
			Mz	0.59	0.46	0.32	0.19	0.05	-0.08	-0.22	-0.35	-0.49

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+1.35-CM+1.5-Q	N	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412
			Vy	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
			Vz	40.262	42.233	44.205	46.177	48.148	50.120	52.091	54.063	56.035
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	411.73	403.34	394.55	385.36	375.76	365.77	355.38	344.58	333.39
			Mz	0.55	0.43	0.30	0.18	0.05	-0.08	-0.20	-0.33	-0.46
		1.35-PP+1.35-CM+1.5-Q	N	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463
			Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
			Vz	41.983	44.027	46.071	48.114	50.158	52.202	54.245	56.289	58.333
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	428.92	420.17	411.01	401.43	391.44	381.03	370.21	358.97	347.31
			Mz	0.60	0.46	0.32	0.19	0.05	-0.09	-0.22	-0.36	-0.49
		PP+CM+1.5-V	N	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044
			Vy	0.500	0.500	0.352	0.186	0.020	-0.146	-0.173	-0.173	-0.173
			Vz	6.256	6.527	6.798	7.069	7.340	7.611	7.882	8.153	8.424
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	62.65	61.35	59.99	58.58	57.12	55.59	54.02	52.39	50.70
			Mz	0.06	-0.04	-0.13	-0.18	-0.21	-0.19	-0.16	-0.12	-0.09
		1.35-PP+CM+1.5-V	N	-6.993	-6.993	-6.993	-6.993	-6.993	-6.993	-6.993	-6.993	-6.993
			Vy	0.548	0.548	0.400	0.234	0.068	-0.098	-0.125	-0.125	-0.125
			Vz	7.978	8.321	8.664	9.007	9.350	9.693	10.036	10.379	10.723
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	79.84	78.18	76.45	74.66	72.79	70.85	68.85	66.77	64.63
			Mz	0.10	-0.01	-0.11	-0.17	-0.20	-0.20	-0.18	-0.15	-0.12
		PP+1.35-CM+1.5-V	N	-7.042	-7.042	-7.042	-7.042	-7.042	-7.042	-7.042	-7.042	-7.042
			Vy	0.506	0.506	0.358	0.192	0.026	-0.140	-0.167	-0.167	-0.167
			Vz	6.724	7.018	7.312	7.606	7.900	8.193	8.487	8.781	9.075
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	67.40	66.00	64.54	63.03	61.45	59.81	58.12	56.36	54.54
			Mz	0.07	-0.04	-0.13	-0.18	-0.21	-0.19	-0.16	-0.13	-0.09
		1.35-PP+1.35-CM+1.5-V	N	-6.991	-6.991	-6.991	-6.991	-6.991	-6.991	-6.991	-6.991	-6.991
			Vy	0.554	0.554	0.406	0.240	0.074	-0.092	-0.119	-0.119	-0.119
			Vz	8.446	8.812	9.178	9.544	9.909	10.275	10.641	11.007	11.373
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	84.59	82.83	81.00	79.10	77.12	75.07	72.94	70.74	68.47
			Mz	0.11	-0.01	-0.11	-0.17	-0.20	-0.20	-0.18	-0.15	-0.13
		PP+CM+1.05-Q+1.5-V	N	-6.864	-6.864	-6.864	-6.864	-6.864	-6.864	-6.864	-6.864	-6.864
			Vy	0.822	0.822	0.673	0.507	0.341	0.176	0.148	0.148	0.148
			Vz	29.732	31.178	32.623	34.069	35.514	36.960	38.405	39.851	41.296
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	303.64	297.45	290.96	284.18	277.10	269.73	262.07	254.11	245.86
			Mz	0.35	0.18	0.03	-0.09	-0.18	-0.23	-0.26	-0.29	-0.32
		1.35-PP+CM+1.05-Q+1.5-V	N	-6.813	-6.813	-6.813	-6.813	-6.813	-6.813	-6.813	-6.813	-6.813
			Vy	0.870	0.870	0.722	0.556	0.390	0.224	0.197	0.197	0.197
			Vz	31.454	32.971	34.489	36.006	37.524	39.042	40.559	42.077	43.594
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	320.83	314.28	307.42	300.25	292.78	284.99	276.90	268.49	259.78
			Mz	0.39	0.21	0.05	-0.08	-0.18	-0.24	-0.28	-0.32	-0.36
		PP+1.35-CM+1.05-Q+1.5-V	N	-6.861	-6.861	-6.861	-6.861	-6.861	-6.861	-6.861	-6.861	-6.861
			Vy	0.828	0.828	0.680	0.514	0.348	0.182	0.155	0.155	0.155
			Vz	30.200	31.669	33.137	34.605	36.074	37.542	39.010	40.479	41.947
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	308.39	302.10	295.51	288.62	281.43	273.95	266.16	258.08	249.70
			Mz	0.36	0.19	0.03	-0.09	-0.18	-0.23	-0.26	-0.29	-0.33
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811
			Vy	0.876	0.876	0.728	0.562	0.396	0.230	0.203	0.203	0.203
			Vz	31.922	33.462	35.003	36.543	38.083	39.624	41.164	42.705	44.245

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	325.58	318.93	311.97	304.70	297.11	289.21	280.99	272.46	263.62
			Mz	0.40	0.22	0.05	-0.08	-0.17	-0.24	-0.28	-0.32	-0.36
		PP+CM+1.5·Q+0.9·V	N	-3.908	-3.908	-3.908	-3.908	-3.908	-3.908	-3.908	-3.908	-3.908
			Vy	0.822	0.822	0.733	0.633	0.534	0.434	0.418	0.418	0.418
			Vz	39.793	41.742	43.691	45.640	47.589	49.538	51.487	53.435	55.384
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	406.94	398.65	389.96	380.88	371.40	361.52	351.25	340.58	329.52
			Mz	0.50	0.34	0.18	0.04	-0.08	-0.18	-0.26	-0.35	-0.43
		1.35·PP+CM+1.5·Q+0.9·V	N	-3.857	-3.857	-3.857	-3.857	-3.857	-3.857	-3.857	-3.857	-3.857
			Vy	0.870	0.870	0.781	0.682	0.582	0.483	0.466	0.466	0.466
			Vz	41.515	43.536	45.557	47.578	49.599	51.620	53.641	55.661	57.682
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	424.14	415.49	406.43	396.96	387.08	376.78	366.08	354.96	343.44
			Mz	0.55	0.37	0.20	0.05	-0.08	-0.19	-0.28	-0.38	-0.47
		PP+1.35·CM+1.5·Q+0.9·V	N	-3.906	-3.906	-3.906	-3.906	-3.906	-3.906	-3.906	-3.906	-3.906
			Vy	0.828	0.828	0.739	0.640	0.540	0.441	0.424	0.424	0.424
			Vz	40.262	42.233	44.205	46.177	48.148	50.120	52.091	54.063	56.035
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	411.69	403.31	394.52	385.33	375.73	365.74	355.35	344.55	333.36
			Mz	0.51	0.34	0.18	0.04	-0.08	-0.18	-0.27	-0.35	-0.44
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-3.855	-3.855	-3.855	-3.855	-3.855	-3.855	-3.855	-3.855	-3.855
			Vy	0.876	0.876	0.787	0.688	0.588	0.489	0.473	0.473	0.473
			Vz	41.983	44.027	46.071	48.114	50.158	52.202	54.245	56.289	58.333
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	428.89	420.14	410.98	401.40	391.41	381.00	370.18	358.94	347.28
			Mz	0.55	0.37	0.20	0.05	-0.08	-0.19	-0.28	-0.38	-0.48
		PP+CM+1.5·N	N	0.810	0.810	0.810	0.810	0.810	0.810	0.810	0.810	0.810
			Vy	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618
			Vz	14.167	14.636	15.105	15.575	16.044	16.513	16.982	17.452	17.921
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	137.38	134.45	131.42	128.30	125.09	121.78	118.37	114.87	111.27
			Mz	0.52	0.40	0.27	0.14	0.02	-0.11	-0.23	-0.36	-0.48
		1.35·PP+CM+1.5·N	N	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861
			Vy	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
			Vz	15.888	16.429	16.971	17.512	18.054	18.595	19.136	19.678	20.219
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	154.57	151.28	147.88	144.38	140.76	137.03	133.20	129.25	125.19
			Mz	0.56	0.43	0.29	0.16	0.02	-0.12	-0.25	-0.39	-0.52
		PP+1.35·CM+1.5·N	N	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812
			Vy	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624
			Vz	14.635	15.127	15.619	16.111	16.603	17.095	17.587	18.079	18.572
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	142.13	139.10	135.97	132.75	129.42	125.99	122.47	118.84	115.11
			Mz	0.53	0.40	0.27	0.15	0.02	-0.11	-0.24	-0.36	-0.49
		1.35·PP+1.35·CM+1.5·N	N	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863
			Vy	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
			Vz	16.356	16.920	17.485	18.049	18.613	19.177	19.741	20.305	20.870
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	159.32	155.93	152.44	148.82	145.09	141.25	137.29	133.22	129.04
			Mz	0.57	0.43	0.29	0.16	0.02	-0.12	-0.25	-0.39	-0.53
		PP+CM+1.05·Q+1.5·N	N	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990
			Vy	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940
			Vz	37.643	39.286	40.930	42.574	44.218	45.862	47.505	49.149	50.793
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	378.37	370.55	362.39	353.90	345.07	335.91	326.42	316.59	306.43
			Mz	0.81	0.62	0.43	0.24	0.05	-0.15	-0.34	-0.53	-0.72

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35·PP+CM+1.05·Q+1.5·N	N	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041
			Vy	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988
			Vz	39.364	41.080	42.796	44.512	46.228	47.943	49.659	51.375	53.091
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	395.56	387.38	378.85	369.97	360.75	351.17	341.25	330.97	320.35
			Mz	0.85	0.65	0.45	0.25	0.05	-0.15	-0.35	-0.55	-0.76
		PP+1.35·CM+1.05·Q+1.5·N	N	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992
			Vy	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946
			Vz	38.111	39.777	41.444	43.111	44.777	46.444	48.110	49.777	51.443
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	383.12	375.20	366.94	358.34	349.41	340.13	330.52	320.56	310.27
			Mz	0.82	0.62	0.43	0.24	0.05	-0.15	-0.34	-0.53	-0.72
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043
			Vy	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994
			Vz	39.832	41.571	43.310	45.048	46.787	48.526	50.264	52.003	53.742
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	400.31	392.04	383.40	374.42	365.08	355.39	345.34	334.94	324.19
			Mz	0.86	0.66	0.45	0.25	0.05	-0.15	-0.36	-0.56	-0.76
		PP+CM+0.9·V+1.5·N	N	-3.508	-3.508	-3.508	-3.508	-3.508	-3.508	-3.508	-3.508	-3.508
			Vy	0.825	0.825	0.736	0.636	0.536	0.437	0.421	0.421	0.421
			Vz	14.167	14.636	15.105	15.575	16.044	16.513	16.982	17.452	17.921
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	137.34	134.42	131.39	128.27	125.06	121.75	118.34	114.84	111.24
			Mz	0.48	0.31	0.15	0.01	-0.11	-0.21	-0.30	-0.38	-0.47
		1.35·PP+CM+0.9·V+1.5·N	N	-3.457	-3.457	-3.457	-3.457	-3.457	-3.457	-3.457	-3.457	-3.457
			Vy	0.873	0.873	0.784	0.684	0.585	0.485	0.469	0.469	0.469
			Vz	15.888	16.429	16.971	17.512	18.054	18.595	19.136	19.678	20.219
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.54	151.25	147.85	144.35	140.73	137.00	133.17	129.22	125.16
			Mz	0.52	0.34	0.17	0.02	-0.11	-0.22	-0.31	-0.41	-0.50
		PP+1.35·CM+0.9·V+1.5·N	N	-3.506	-3.506	-3.506	-3.506	-3.506	-3.506	-3.506	-3.506	-3.506
			Vy	0.831	0.831	0.742	0.642	0.543	0.443	0.427	0.427	0.427
			Vz	14.635	15.127	15.619	16.111	16.603	17.095	17.587	18.079	18.572
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	142.10	139.07	135.94	132.72	129.39	125.96	122.44	118.81	115.08
			Mz	0.48	0.31	0.15	0.01	-0.11	-0.21	-0.30	-0.38	-0.47
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-3.455	-3.455	-3.455	-3.455	-3.455	-3.455	-3.455	-3.455	-3.455
			Vy	0.879	0.879	0.790	0.690	0.591	0.491	0.475	0.475	0.475
			Vz	16.356	16.920	17.485	18.049	18.613	19.177	19.741	20.305	20.870
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	159.29	155.90	152.41	148.79	145.06	141.22	137.26	133.19	129.01
			Mz	0.52	0.34	0.17	0.02	-0.11	-0.22	-0.31	-0.41	-0.51
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328
			Vy	1.146	1.146	1.057	0.958	0.858	0.759	0.742	0.742	0.742
			Vz	37.643	39.286	40.930	42.574	44.218	45.862	47.505	49.149	50.793
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	378.34	370.52	362.36	353.87	345.04	335.88	326.39	316.56	306.40
			Mz	0.77	0.53	0.31	0.10	-0.08	-0.25	-0.40	-0.55	-0.70
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-3.277	-3.277	-3.277	-3.277	-3.277	-3.277	-3.277	-3.277	-3.277
			Vy	1.195	1.195	1.106	1.006	0.906	0.807	0.791	0.791	0.791
			Vz	39.364	41.080	42.796	44.512	46.228	47.943	49.659	51.375	53.091
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	395.53	387.35	378.82	369.94	360.72	351.14	341.22	330.94	320.32
			Mz	0.81	0.56	0.33	0.11	-0.08	-0.25	-0.42	-0.58	-0.74
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326
			Vy	1.153	1.153	1.064	0.964	0.864	0.765	0.749	0.749	0.749
			Vz	38.111	39.777	41.444	43.111	44.777	46.444	48.110	49.777	51.443

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	383.09	375.17	366.91	358.31	349.38	340.10	330.49	320.53	310.24
			Mz	0.77	0.54	0.31	0.10	-0.08	-0.25	-0.40	-0.55	-0.70
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275
			Vy	1.201	1.201	1.112	1.012	0.913	0.813	0.797	0.797	0.797
			Vz	39.832	41.571	43.310	45.048	46.787	48.526	50.264	52.003	53.742
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	400.28	392.01	383.37	374.39	365.05	355.36	345.31	334.91	324.16
			Mz	0.81	0.57	0.33	0.12	-0.08	-0.25	-0.42	-0.58	-0.74
		PP+CM+1.5·Q+0.75·N	N	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739
			Vy	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847
			Vz	43.749	45.797	47.845	49.893	51.941	53.989	56.037	58.085	60.133
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	444.31	435.21	425.69	415.75	405.39	394.62	383.43	371.83	359.81
			Mz	0.74	0.57	0.40	0.23	0.05	-0.12	-0.29	-0.46	-0.64
		1.35·PP+CM+1.5·Q+0.75·N	N	0.789	0.789	0.789	0.789	0.789	0.789	0.789	0.789	0.789
			Vy	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895
			Vz	45.470	47.590	49.710	51.830	53.950	56.070	58.191	60.311	62.431
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	461.51	452.04	442.15	431.82	421.07	409.88	398.26	386.21	373.73
			Mz	0.78	0.60	0.42	0.24	0.06	-0.13	-0.31	-0.49	-0.67
		PP+1.35·CM+1.5·Q+0.75·N	N	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741
			Vy	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
			Vz	44.217	46.288	48.358	50.429	52.500	54.571	56.642	58.712	60.783
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	449.06	439.86	430.24	420.19	409.73	398.84	387.53	375.80	363.65
			Mz	0.75	0.57	0.40	0.23	0.05	-0.12	-0.29	-0.47	-0.64
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792
			Vy	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901
			Vz	45.938	48.081	50.224	52.367	54.510	56.653	58.795	60.938	63.081
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	466.26	456.70	446.70	436.27	425.40	414.10	402.36	390.18	377.57
			Mz	0.79	0.61	0.42	0.24	0.06	-0.13	-0.31	-0.49	-0.68
		PP+CM+1.5·V+0.75·N	N	-6.716	-6.716	-6.716	-6.716	-6.716	-6.716	-6.716	-6.716	-6.716
			Vy	0.731	0.731	0.583	0.417	0.251	0.085	0.058	0.058	0.058
			Vz	10.211	10.582	10.952	11.322	11.692	12.062	12.432	12.803	13.173
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	99.99	97.87	95.68	93.42	91.08	88.66	86.17	83.60	80.96
			Mz	0.25	0.10	-0.03	-0.13	-0.20	-0.23	-0.25	-0.26	-0.27
		1.35·PP+CM+1.5·V+0.75·N	N	-6.665	-6.665	-6.665	-6.665	-6.665	-6.665	-6.665	-6.665	-6.665
			Vy	0.779	0.779	0.631	0.465	0.299	0.133	0.106	0.106	0.106
			Vz	11.933	12.375	12.817	13.260	13.702	14.144	14.586	15.029	15.471
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	117.18	114.71	112.14	109.49	106.75	103.92	101.00	97.99	94.88
			Mz	0.29	0.14	-0.01	-0.12	-0.20	-0.24	-0.26	-0.29	-0.31
		PP+1.35·CM+1.5·V+0.75·N	N	-6.713	-6.713	-6.713	-6.713	-6.713	-6.713	-6.713	-6.713	-6.713
			Vy	0.737	0.737	0.589	0.423	0.257	0.091	0.064	0.064	0.064
			Vz	10.680	11.073	11.466	11.858	12.251	12.644	13.037	13.430	13.823
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	104.74	102.52	100.23	97.86	95.41	92.88	90.27	87.58	84.80
			Mz	0.26	0.11	-0.03	-0.13	-0.20	-0.24	-0.25	-0.26	-0.28
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-6.662	-6.662	-6.662	-6.662	-6.662	-6.662	-6.662	-6.662	-6.662
			Vy	0.786	0.786	0.637	0.471	0.305	0.139	0.112	0.112	0.112
			Vz	12.401	12.866	13.331	13.796	14.261	14.726	15.191	15.656	16.121
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	121.93	119.36	116.70	113.94	111.08	108.14	105.09	101.96	98.73
			Mz	0.30	0.14	-0.01	-0.12	-0.20	-0.24	-0.27	-0.29	-0.31

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-6.535	-6.535	-6.535	-6.535	-6.535	-6.535	-6.535	-6.535	-6.535
			Vy	1.053	1.053	0.905	0.739	0.573	0.407	0.380	0.380	0.380
			Vz	33.687	35.232	36.777	38.321	39.866	41.411	42.955	44.500	46.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	340.98	333.97	326.65	319.01	311.06	302.80	294.22	285.33	276.12
			Mz	0.54	0.33	0.13	-0.04	-0.17	-0.27	-0.35	-0.43	-0.50
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484
			Vy	1.101	1.101	0.953	0.787	0.621	0.455	0.428	0.428	0.428
			Vz	35.409	37.026	38.642	40.259	41.876	43.493	45.109	46.726	48.343
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	358.17	350.81	343.11	335.09	326.74	318.06	309.05	299.71	290.04
			Mz	0.58	0.36	0.15	-0.03	-0.17	-0.28	-0.37	-0.45	-0.54
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533
			Vy	1.059	1.059	0.911	0.745	0.579	0.413	0.386	0.386	0.386
			Vz	34.156	35.723	37.291	38.858	40.425	41.993	43.560	45.128	46.695
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	345.73	338.63	331.20	323.46	315.40	307.01	298.31	289.30	279.96
			Mz	0.55	0.33	0.13	-0.04	-0.17	-0.27	-0.35	-0.43	-0.51
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-6.482	-6.482	-6.482	-6.482	-6.482	-6.482	-6.482	-6.482	-6.482
			Vy	1.107	1.107	0.959	0.793	0.627	0.461	0.434	0.434	0.434
			Vz	35.877	37.517	39.156	40.796	42.435	44.075	45.714	47.354	48.993
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	362.92	355.46	347.66	339.53	331.07	322.27	313.14	303.68	293.88
			Mz	0.59	0.36	0.15	-0.03	-0.17	-0.28	-0.37	-0.46	-0.55
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-3.579	-3.579	-3.579	-3.579	-3.579	-3.579	-3.579	-3.579	-3.579
			Vy	1.053	1.053	0.964	0.865	0.765	0.665	0.649	0.649	0.649
			Vz	43.749	45.797	47.845	49.893	51.941	53.989	56.037	58.085	60.133
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	444.28	435.18	425.66	415.72	405.36	394.59	383.40	371.80	359.78
			Mz	0.70	0.48	0.28	0.09	-0.08	-0.22	-0.35	-0.48	-0.62
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-3.528	-3.528	-3.528	-3.528	-3.528	-3.528	-3.528	-3.528	-3.528
			Vy	1.101	1.101	1.012	0.913	0.813	0.714	0.697	0.697	0.697
			Vz	45.470	47.590	49.710	51.830	53.950	56.070	58.191	60.311	62.431
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	461.48	452.01	442.12	431.79	421.04	409.85	398.23	386.18	373.70
			Mz	0.74	0.51	0.30	0.10	-0.07	-0.23	-0.37	-0.51	-0.65
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-3.577	-3.577	-3.577	-3.577	-3.577	-3.577	-3.577	-3.577	-3.577
			Vy	1.059	1.059	0.970	0.871	0.771	0.672	0.655	0.655	0.655
			Vz	44.217	46.288	48.358	50.429	52.500	54.571	56.642	58.712	60.783
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	449.03	439.83	430.21	420.16	409.70	398.81	387.50	375.77	363.62
			Mz	0.70	0.49	0.28	0.09	-0.07	-0.22	-0.35	-0.49	-0.62
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-3.526	-3.526	-3.526	-3.526	-3.526	-3.526	-3.526	-3.526	-3.526
			Vy	1.108	1.108	1.019	0.919	0.819	0.720	0.704	0.704	0.704
			Vz	45.938	48.081	50.224	52.367	54.510	56.653	58.795	60.938	63.081
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	466.23	456.67	446.67	436.24	425.37	414.07	402.33	390.15	377.54
			Mz	0.74	0.52	0.30	0.10	-0.07	-0.23	-0.37	-0.52	-0.66

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N23/N25	Madera	PP+CM	N	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
			Vy	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
			Vz	8.691	8.962	9.233	9.504	9.775	10.046	10.317	10.588	10.859
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	50.75	48.96	47.11	45.20	43.24	41.23	39.16	37.03	34.85
			Mz	-0.12	-0.09	-0.06	-0.04	-0.01	0.02	0.04	0.07	0.10
		1.35-PP+CM	N	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251
			Vy	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
			Vz	11.083	11.426	11.769	12.112	12.455	12.798	13.141	13.484	13.827
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	64.67	62.39	60.03	57.60	55.10	52.53	49.89	47.19	44.41
			Mz	-0.16	-0.12	-0.08	-0.05	-0.01	0.02	0.06	0.09	0.13
		PP+1.35·CM	N	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197
			Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
			Vz	9.341	9.635	9.929	10.223	10.516	10.810	11.104	11.398	11.692
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	54.59	52.66	50.67	48.63	46.52	44.35	42.12	39.83	37.48
			Mz	-0.12	-0.10	-0.07	-0.04	-0.01	0.02	0.05	0.07	0.10
		1.35-PP+1.35·CM	N	0.257	0.257	0.257	0.257	0.257	0.257	0.257	0.257	0.257
			Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vz	11.733	12.099	12.465	12.830	13.196	13.562	13.928	14.294	14.660
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	68.52	66.09	63.59	61.02	58.38	55.65	52.86	49.99	47.05
			Mz	-0.16	-0.12	-0.09	-0.05	-0.01	0.02	0.06	0.10	0.13
		PP+CM+1.5·Q	N	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549
			Vy	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479
			Vz	55.648	57.597	59.546	61.495	63.444	65.393	67.342	69.291	71.239
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	329.54	318.02	306.11	293.80	281.10	268.00	254.50	240.60	226.31
			Mz	-0.45	-0.36	-0.26	-0.16	-0.06	0.03	0.13	0.23	0.33
		1.35-PP+CM+1.5·Q	N	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609
			Vy	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521
			Vz	58.040	60.061	62.082	64.103	66.124	68.145	70.166	72.187	74.208
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	343.46	331.45	319.03	306.20	292.96	279.30	265.24	250.76	235.88
			Mz	-0.49	-0.38	-0.28	-0.17	-0.07	0.04	0.15	0.25	0.36
		PP+1.35·CM+1.5·Q	N	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555
			Vy	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484
			Vz	56.299	58.270	60.242	62.214	64.185	66.157	68.129	70.100	72.072
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	333.38	321.73	309.68	297.23	284.37	271.12	257.46	243.41	228.95
			Mz	-0.46	-0.36	-0.26	-0.16	-0.06	0.03	0.13	0.23	0.33
		1.35-PP+1.35·CM+1.5·Q	N	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615
			Vy	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526
			Vz	58.690	60.734	62.778	64.821	66.865	68.909	70.953	72.996	75.040
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	347.30	335.16	322.60	309.62	296.23	282.42	268.20	253.56	238.51
			Mz	-0.49	-0.39	-0.28	-0.17	-0.07	0.04	0.15	0.25	0.36
		PP+CM+1.5·V	N	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694
			Vy	0.209	0.209	0.061	-0.105	-0.271	-0.437	-0.464	-0.464	-0.464
			Vz	8.691	8.962	9.233	9.504	9.775	10.046	10.317	10.588	10.859
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	50.82	49.02	47.17	45.27	43.31	41.29	39.22	37.09	34.91
			Mz	-0.16	-0.20	-0.23	-0.23	-0.19	-0.12	-0.02	0.07	0.17
		1.35-PP+CM+1.5·V	N	-3.633	-3.633	-3.633	-3.633	-3.633	-3.633	-3.633	-3.633	-3.633
			Vy	0.167	0.167	0.019	-0.147	-0.313	-0.479	-0.506	-0.506	-0.506
			Vz	11.083	11.426	11.769	12.112	12.455	12.798	13.141	13.484	13.827
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	64.74	62.45	60.09	57.66	55.17	52.60	49.96	47.25	44.48
			Mz	-0.20	-0.23	-0.25	-0.24	-0.19	-0.11	-0.01	0.09	0.20
		PP+1.35·CM+1.5·V	N	-3.688	-3.688	-3.688	-3.688	-3.688	-3.688	-3.688	-3.688	-3.688

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m	
			Vy	0.205	0.205	0.056	-0.110	-0.276	-0.441	-0.468	-0.468	-0.468	
			Vz	9.341	9.635	9.929	10.223	10.516	10.810	11.104	11.398	11.692	
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
			My	54.66	52.73	50.74	48.69	46.58	44.41	42.19	39.90	37.55	
			Mz	-0.16	-0.21	-0.23	-0.23	-0.19	-0.12	-0.02	0.07	0.17	
		1.35-PP+1.35-CM+1.5-V	N	-3.627	-3.627	-3.627	-3.627	-3.627	-3.627	-3.627	-3.627	-3.627	-3.627
			Vy	0.163	0.163	0.014	-0.152	-0.317	-0.483	-0.510	-0.510	-0.510	
			Vz	11.733	12.099	12.465	12.830	13.196	13.562	13.928	14.294	14.660	
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
			My	68.58	66.16	63.66	61.09	58.44	55.72	52.92	50.06	47.11	
			Mz	-0.20	-0.23	-0.25	-0.24	-0.19	-0.11	-0.01	0.10	0.20	
		PP+CM+1.05-Q+1.5-V	N	-3.443	-3.443	-3.443	-3.443	-3.443	-3.443	-3.443	-3.443	-3.443	-3.443
			Vy	-0.032	-0.032	-0.181	-0.347	-0.513	-0.679	-0.706	-0.706	-0.706	
			Vz	41.561	43.007	44.452	45.898	47.343	48.789	50.234	51.680	53.125	
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
			My	245.97	237.37	228.47	219.29	209.81	200.03	189.96	179.60	168.94	
			Mz	-0.39	-0.39	-0.37	-0.31	-0.22	-0.10	0.04	0.18	0.33	
		1.35-PP+CM+1.05-Q+1.5-V	N	-3.383	-3.383	-3.383	-3.383	-3.383	-3.383	-3.383	-3.383	-3.383	-3.383
			Vy	-0.074	-0.074	-0.223	-0.389	-0.555	-0.721	-0.748	-0.748	-0.748	
			Vz	43.953	45.470	46.988	48.506	50.023	51.541	53.058	54.576	56.094	
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
			My	259.89	250.80	241.39	231.68	221.66	211.34	200.70	189.76	178.50	
			Mz	-0.43	-0.41	-0.39	-0.32	-0.23	-0.10	0.05	0.20	0.36	
		PP+1.35-CM+1.05-Q+1.5-V	N	-3.437	-3.437	-3.437	-3.437	-3.437	-3.437	-3.437	-3.437	-3.437	-3.437
			Vy	-0.037	-0.037	-0.186	-0.352	-0.517	-0.683	-0.710	-0.710	-0.710	
			Vz	42.211	43.680	45.148	46.616	48.085	49.553	51.021	52.490	53.958	
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
			My	249.81	241.07	232.04	222.71	213.08	203.15	192.93	182.40	171.58	
			Mz	-0.40	-0.39	-0.37	-0.31	-0.23	-0.10	0.04	0.18	0.33	
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-3.377	-3.377	-3.377	-3.377	-3.377	-3.377	-3.377	-3.377	-3.377	-3.377
			Vy	-0.079	-0.079	-0.228	-0.393	-0.559	-0.725	-0.752	-0.752	-0.752	
			Vz	44.603	46.143	47.684	49.224	50.765	52.305	53.845	55.386	56.926	
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
			My	263.73	254.50	244.96	235.11	224.94	214.46	203.67	192.56	181.14	
			Mz	-0.43	-0.42	-0.39	-0.33	-0.23	-0.10	0.05	0.21	0.36	
		PP+CM+1.5-Q+0.9-V	N	-1.782	-1.782	-1.782	-1.782	-1.782	-1.782	-1.782	-1.782	-1.782	-1.782
			Vy	-0.273	-0.273	-0.362	-0.462	-0.562	-0.661	-0.677	-0.677	-0.677	
			Vz	55.648	57.597	59.546	61.495	63.444	65.393	67.342	69.291	71.239	
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
			My	329.58	318.06	306.15	293.84	281.14	268.04	254.54	240.64	226.35	
			Mz	-0.48	-0.42	-0.36	-0.27	-0.17	-0.05	0.09	0.23	0.37	
		1.35-PP+CM+1.5-Q+0.9-V	N	-1.722	-1.722	-1.722	-1.722	-1.722	-1.722	-1.722	-1.722	-1.722	-1.722
			Vy	-0.315	-0.315	-0.404	-0.504	-0.603	-0.703	-0.719	-0.719	-0.719	
			Vz	58.040	60.061	62.082	64.103	66.124	68.145	70.166	72.187	74.208	
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
			My	343.50	331.49	319.07	306.24	293.00	279.34	265.28	250.80	235.92	
			Mz	-0.51	-0.45	-0.38	-0.28	-0.17	-0.04	0.11	0.25	0.40	
		PP+1.35-CM+1.5-Q+0.9-V	N	-1.776	-1.776	-1.776	-1.776	-1.776	-1.776	-1.776	-1.776	-1.776	-1.776
			Vy	-0.278	-0.278	-0.367	-0.467	-0.566	-0.666	-0.682	-0.682	-0.682	
			Vz	56.299	58.270	60.242	62.214	64.185	66.157	68.129	70.100	72.072	
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
			My	333.42	321.77	309.72	297.26	284.41	271.16	257.50	243.45	228.99	
			Mz	-0.48	-0.42	-0.36	-0.28	-0.17	-0.05	0.09	0.23	0.37	
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-1.715	-1.715	-1.715	-1.715	-1.715	-1.715	-1.715	-1.715	-1.715	-1.715
			Vy	-0.320	-0.320	-0.409	-0.509	-0.608	-0.708	-0.724	-0.724	-0.724	
			Vz	58.690	60.734	62.778	64.821	66.865	68.909	70.953	72.996	75.040	
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	347.34	335.20	322.64	309.66	296.27	282.46	268.24	253.60	238.55
			Mz	-0.52	-0.45	-0.38	-0.29	-0.17	-0.04	0.11	0.25	0.40
		PP+CM+1.5·N	N	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936
			Vy	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572
			Vz	19.503	19.973	20.442	20.911	21.381	21.850	22.319	22.789	23.258
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	111.27	107.26	103.15	98.94	94.64	90.25	85.75	81.17	76.49
			Mz	-0.49	-0.37	-0.25	-0.14	-0.02	0.09	0.21	0.33	0.44
		1.35·PP+CM+1.5·N	N	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996
			Vy	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614
			Vz	21.895	22.436	22.978	23.519	24.061	24.602	25.143	25.685	26.226
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	125.19	120.69	116.07	111.34	106.50	101.55	96.49	91.33	86.05
			Mz	-0.52	-0.40	-0.27	-0.15	-0.02	0.10	0.23	0.35	0.48
		PP+1.35·CM+1.5·N	N	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942
			Vy	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577
			Vz	20.154	20.646	21.138	21.630	22.122	22.614	23.106	23.598	24.090
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	115.11	110.96	106.72	102.37	97.92	93.37	88.72	83.97	79.12
			Mz	-0.49	-0.37	-0.26	-0.14	-0.02	0.09	0.21	0.33	0.45
		1.35·PP+1.35·CM+1.5·N	N	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
			Vy	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619
			Vz	22.545	23.109	23.674	24.238	24.802	25.366	25.930	26.494	27.059
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	129.04	124.39	119.64	114.76	109.78	104.68	99.46	94.13	88.68
			Mz	-0.53	-0.40	-0.28	-0.15	-0.02	0.10	0.23	0.35	0.48
		PP+CM+1.05·Q+1.5·N	N	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186
			Vy	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814
			Vz	52.374	54.017	55.661	57.305	58.949	60.593	62.236	63.880	65.524
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	306.42	295.60	284.45	272.96	261.14	248.99	236.50	223.67	210.51
			Mz	-0.72	-0.55	-0.39	-0.22	-0.06	0.11	0.27	0.44	0.60
		1.35·PP+CM+1.05·Q+1.5·N	N	1.247	1.247	1.247	1.247	1.247	1.247	1.247	1.247	1.247
			Vy	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856
			Vz	54.765	56.481	58.197	59.913	61.629	63.345	65.061	66.776	68.492
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	320.34	309.03	297.37	285.36	273.00	260.29	247.23	233.83	220.07
			Mz	-0.76	-0.58	-0.41	-0.23	-0.06	0.11	0.29	0.46	0.64
		PP+1.35·CM+1.05·Q+1.5·N	N	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193
			Vy	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819
			Vz	53.024	54.691	56.357	58.024	59.690	61.357	63.023	64.690	66.357
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	310.26	299.31	288.02	276.39	264.42	252.11	239.46	226.47	213.15
			Mz	-0.72	-0.56	-0.39	-0.22	-0.06	0.11	0.27	0.44	0.61
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253
			Vy	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861
			Vz	55.416	57.154	58.893	60.631	62.370	64.109	65.847	67.586	69.325
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	324.18	312.74	300.94	288.78	276.28	263.41	250.20	236.63	222.71
			Mz	-0.76	-0.59	-0.41	-0.24	-0.06	0.11	0.29	0.46	0.64
		PP+CM+0.9·V+1.5·N	N	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395
			Vy	-0.367	-0.367	-0.456	-0.555	-0.655	-0.754	-0.771	-0.771	-0.771
			Vz	19.503	19.973	20.442	20.911	21.381	21.850	22.319	22.789	23.258
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	111.31	107.30	103.19	98.98	94.68	90.29	85.79	81.21	76.52
			Mz	-0.51	-0.44	-0.35	-0.25	-0.13	0.01	0.17	0.33	0.49
		1.35·PP+CM+0.9·V+1.5·N	N	-1.334	-1.334	-1.334	-1.334	-1.334	-1.334	-1.334	-1.334	-1.334

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.409	-0.409	-0.498	-0.597	-0.697	-0.796	-0.813	-0.813	-0.813
			Vz	21.895	22.436	22.978	23.519	24.061	24.602	25.143	25.685	26.226
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	125.23	120.72	116.11	111.38	106.54	101.59	96.53	91.37	86.09
			Mz	-0.55	-0.46	-0.37	-0.26	-0.13	0.02	0.19	0.35	0.52
		PP+1.35·CM+0.9·V+1.5·N	N	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389
			Vy	-0.371	-0.371	-0.460	-0.560	-0.660	-0.759	-0.775	-0.775	-0.775
			Vz	20.154	20.646	21.138	21.630	22.122	22.614	23.106	23.598	24.090
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	115.15	111.00	106.75	102.41	97.96	93.41	88.76	84.01	79.16
			Mz	-0.52	-0.44	-0.36	-0.25	-0.13	0.01	0.17	0.33	0.49
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-1.328	-1.328	-1.328	-1.328	-1.328	-1.328	-1.328	-1.328	-1.328
			Vy	-0.413	-0.413	-0.502	-0.602	-0.702	-0.801	-0.817	-0.817	-0.817
			Vz	22.545	23.109	23.674	24.238	24.802	25.366	25.930	26.494	27.059
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	129.07	124.43	119.67	114.80	109.82	104.71	99.50	94.17	88.72
			Mz	-0.55	-0.47	-0.38	-0.26	-0.13	0.02	0.19	0.35	0.52
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144
			Vy	-0.609	-0.609	-0.698	-0.797	-0.897	-0.996	-1.013	-1.013	-1.013
			Vz	52.374	54.017	55.661	57.305	58.949	60.593	62.236	63.880	65.524
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	306.46	295.64	284.49	273.00	261.18	249.02	236.53	223.71	210.55
			Mz	-0.74	-0.62	-0.49	-0.34	-0.16	0.03	0.23	0.44	0.65
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.084	-1.084	-1.084	-1.084	-1.084	-1.084	-1.084	-1.084	-1.084
			Vy	-0.651	-0.651	-0.740	-0.839	-0.939	-1.038	-1.054	-1.054	-1.054
			Vz	54.765	56.481	58.197	59.913	61.629	63.345	65.061	66.776	68.492
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	320.38	309.07	297.41	285.40	273.04	260.33	247.27	233.87	220.11
			Mz	-0.78	-0.65	-0.51	-0.35	-0.17	0.03	0.25	0.46	0.68
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.138	-1.138	-1.138	-1.138	-1.138	-1.138	-1.138	-1.138	-1.138
			Vy	-0.613	-0.613	-0.702	-0.802	-0.901	-1.001	-1.017	-1.017	-1.017
			Vz	53.024	54.691	56.357	58.024	59.690	61.357	63.023	64.690	66.357
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	310.30	299.35	288.06	276.43	264.46	252.15	239.50	226.51	213.19
			Mz	-0.75	-0.62	-0.49	-0.34	-0.16	0.03	0.24	0.44	0.65
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.078	-1.078	-1.078	-1.078	-1.078	-1.078	-1.078	-1.078	-1.078
			Vy	-0.655	-0.655	-0.744	-0.844	-0.943	-1.043	-1.059	-1.059	-1.059
			Vz	55.416	57.154	58.893	60.631	62.370	64.109	65.847	67.586	69.325
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	324.22	312.78	300.98	288.82	276.31	263.45	250.24	236.67	222.75
			Mz	-0.79	-0.65	-0.51	-0.35	-0.17	0.03	0.25	0.46	0.68
		PP+CM+1.5·Q+0.75·N	N	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921
			Vy	-0.699	-0.699	-0.699	-0.699	-0.699	-0.699	-0.699	-0.699	-0.699
			Vz	61.055	63.103	65.151	67.199	69.247	71.295	73.343	75.391	77.439
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	359.80	347.17	334.13	320.67	306.80	292.51	277.80	262.67	247.13
			Mz	-0.64	-0.49	-0.35	-0.21	-0.07	0.07	0.22	0.36	0.50
		1.35·PP+CM+1.5·Q+0.75·N	N	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982
			Vy	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741
			Vz	63.446	65.566	67.686	69.807	71.927	74.047	76.167	78.287	80.407
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	373.72	360.60	347.05	333.07	318.66	303.81	288.54	272.83	256.69
			Mz	-0.67	-0.52	-0.37	-0.22	-0.07	0.08	0.23	0.38	0.53
		PP+1.35·CM+1.5·Q+0.75·N	N	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927
			Vy	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703
			Vz	61.705	63.776	65.847	67.917	69.988	72.059	74.130	76.200	78.271
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	363.64	350.88	337.70	324.10	310.07	295.63	280.76	265.48	249.77
			Mz	-0.64	-0.50	-0.35	-0.21	-0.07	0.07	0.22	0.36	0.50
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988
			Vy	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
			Vz	64.097	66.239	68.382	70.525	72.668	74.811	76.954	79.097	81.239
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	377.56	364.31	350.62	336.49	321.93	306.94	291.50	275.63	259.33
			Mz	-0.68	-0.53	-0.37	-0.22	-0.07	0.08	0.23	0.38	0.53
		PP+CM+1.5·V+0.75·N	N	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321
			Vy	-0.010	-0.010	-0.158	-0.324	-0.490	-0.656	-0.683	-0.683	-0.683
			Vz	14.097	14.467	14.838	15.208	15.578	15.948	16.318	16.688	17.059
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	81.08	78.17	75.19	72.14	69.01	65.80	62.52	59.16	55.73
			Mz	-0.34	-0.34	-0.33	-0.28	-0.19	-0.08	0.06	0.20	0.34
		1.35·PP+CM+1.5·V+0.75·N	N	-3.261	-3.261	-3.261	-3.261	-3.261	-3.261	-3.261	-3.261	-3.261
			Vy	-0.052	-0.052	-0.200	-0.366	-0.532	-0.698	-0.725	-0.725	-0.725
			Vz	16.489	16.931	17.373	17.816	18.258	18.700	19.142	19.585	20.027
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	95.00	91.60	88.11	84.53	80.87	77.11	73.26	69.32	65.29
			Mz	-0.38	-0.37	-0.35	-0.29	-0.20	-0.07	0.08	0.22	0.37
		PP+1.35·CM+1.5·V+0.75·N	N	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315
			Vy	-0.015	-0.015	-0.163	-0.329	-0.495	-0.661	-0.688	-0.688	-0.688
			Vz	14.748	15.140	15.533	15.926	16.319	16.712	17.105	17.498	17.891
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	84.92	81.88	78.76	75.56	72.28	68.92	65.48	61.97	58.37
			Mz	-0.35	-0.34	-0.33	-0.28	-0.19	-0.08	0.06	0.20	0.34
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-3.255	-3.255	-3.255	-3.255	-3.255	-3.255	-3.255	-3.255	-3.255
			Vy	-0.057	-0.057	-0.205	-0.371	-0.537	-0.703	-0.730	-0.730	-0.730
			Vz	17.139	17.604	18.069	18.534	18.999	19.464	19.929	20.394	20.859
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	98.84	95.31	91.68	87.96	84.14	80.23	76.22	72.12	67.93
			Mz	-0.38	-0.37	-0.35	-0.29	-0.20	-0.07	0.08	0.22	0.37
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.071	-3.071	-3.071	-3.071	-3.071	-3.071	-3.071	-3.071	-3.071
			Vy	-0.252	-0.252	-0.400	-0.566	-0.732	-0.898	-0.925	-0.925	-0.925
			Vz	46.967	48.512	50.057	51.601	53.146	54.691	56.235	57.780	59.325
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	276.23	266.52	256.49	246.16	235.51	224.54	213.26	201.67	189.76
			Mz	-0.58	-0.53	-0.46	-0.36	-0.23	-0.07	0.12	0.31	0.50
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010
			Vy	-0.294	-0.294	-0.442	-0.608	-0.774	-0.940	-0.967	-0.967	-0.967
			Vz	49.359	50.976	52.592	54.209	55.826	57.443	59.059	60.676	62.293
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	290.15	279.95	269.41	258.55	247.36	235.85	224.00	211.82	199.32
			Mz	-0.61	-0.55	-0.48	-0.37	-0.23	-0.06	0.14	0.33	0.53
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-3.065	-3.065	-3.065	-3.065	-3.065	-3.065	-3.065	-3.065	-3.065
			Vy	-0.257	-0.257	-0.405	-0.571	-0.737	-0.903	-0.930	-0.930	-0.930
			Vz	47.618	49.185	50.753	52.320	53.887	55.455	57.022	58.590	60.157
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	280.07	270.22	260.06	249.58	238.78	227.66	216.23	204.47	192.39
			Mz	-0.58	-0.53	-0.46	-0.36	-0.23	-0.07	0.12	0.31	0.50
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-3.004	-3.004	-3.004	-3.004	-3.004	-3.004	-3.004	-3.004	-3.004
			Vy	-0.299	-0.299	-0.447	-0.613	-0.779	-0.945	-0.972	-0.972	-0.972
			Vz	50.009	51.649	53.288	54.928	56.567	58.207	59.846	61.486	63.125
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	293.99	283.65	272.98	261.98	250.64	238.97	226.97	214.63	201.96
			Mz	-0.62	-0.56	-0.48	-0.38	-0.23	-0.06	0.14	0.34	0.53
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.410	-1.410	-1.410	-1.410	-1.410	-1.410	-1.410	-1.410	-1.410

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.493	-0.493	-0.582	-0.681	-0.781	-0.881	-0.897	-0.897	-0.897
			Vz	61.055	63.103	65.151	67.199	69.247	71.295	73.343	75.391	77.439
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	359.84	347.21	334.17	320.71	306.84	292.55	277.84	262.71	247.17
			Mz	-0.66	-0.56	-0.45	-0.32	-0.17	-0.01	0.18	0.36	0.54
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.349	-1.349	-1.349	-1.349	-1.349	-1.349	-1.349	-1.349	-1.349
			Vy	-0.535	-0.535	-0.624	-0.723	-0.823	-0.923	-0.939	-0.939	-0.939
			Vz	63.446	65.566	67.686	69.807	71.927	74.047	76.167	78.287	80.407
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	373.76	360.64	347.09	333.11	318.70	303.85	288.58	272.87	256.73
			Mz	-0.70	-0.59	-0.47	-0.33	-0.18	0.00	0.19	0.38	0.57
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403
			Vy	-0.498	-0.498	-0.587	-0.686	-0.786	-0.885	-0.902	-0.902	-0.902
			Vz	61.705	63.776	65.847	67.917	69.988	72.059	74.130	76.200	78.271
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	363.68	350.92	337.74	324.14	310.11	295.67	280.80	265.52	249.81
			Mz	-0.66	-0.56	-0.45	-0.33	-0.18	-0.01	0.18	0.36	0.54
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343
			Vy	-0.540	-0.540	-0.629	-0.728	-0.828	-0.927	-0.943	-0.943	-0.943
			Vz	64.097	66.239	68.382	70.525	72.668	74.811	76.954	79.097	81.239
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	377.60	364.35	350.66	336.53	321.97	306.97	291.54	275.67	259.37
			Mz	-0.70	-0.59	-0.47	-0.34	-0.18	0.00	0.19	0.38	0.58

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N25/N27	Madera	PP+CM	N	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
			Vy	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
			Vz	11.127	11.398	11.669	11.940	12.211	12.482	12.753	13.024	13.295
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	34.85	32.56	30.21	27.81	25.35	22.84	20.28	17.66	14.98
			Mz	0.10	0.08	0.07	0.05	0.04	0.03	0.01	0.00	-0.02
		1.35·PP+CM	N	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	14.188	14.532	14.875	15.218	15.561	15.904	16.247	16.590	16.933
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	44.41	41.49	38.50	35.44	32.31	29.11	25.84	22.50	19.09
			Mz	0.13	0.11	0.09	0.07	0.05	0.03	0.01	-0.01	-0.02
		PP+1.35·CM	N	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
			Vy	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074
			Vz	11.959	12.253	12.547	12.841	13.135	13.428	13.722	14.016	14.310
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	37.48	35.02	32.50	29.92	27.27	24.57	21.81	18.99	16.11
			Mz	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00	-0.02
		1.35·PP+1.35·CM	N	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
			Vy	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
			Vz	15.021	15.387	15.753	16.119	16.485	16.850	17.216	17.582	17.948
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	47.04	43.95	40.78	37.54	34.23	30.84	27.37	23.84	20.22
			Mz	0.13	0.11	0.09	0.07	0.05	0.03	0.01	-0.01	-0.02
		PP+CM+1.5·Q	N	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
			Vy	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
			Vz	71.504	73.453	75.402	77.351	79.300	81.249	83.198	85.147	87.095
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	226.30	211.56	196.42	180.89	164.96	148.64	131.91	114.79	97.28

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.33	0.28	0.23	0.18	0.14	0.09	0.04	0.00	-0.05
		1.35-PP+CM+1.5-Q	N	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496
			Vy	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253
			Vz	74.566	76.587	78.608	80.629	82.650	84.671	86.692	88.713	90.734
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	235.86	220.49	204.71	188.52	171.91	154.90	137.47	119.64	101.39
			Mz	0.36	0.30	0.25	0.20	0.15	0.10	0.05	0.00	-0.06
		PP+1.35-CM+1.5-Q	N	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444
			Vy	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232
			Vz	72.337	74.309	76.280	78.252	80.224	82.195	84.167	86.139	88.110
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	228.94	214.02	198.71	183.00	166.88	150.37	133.45	116.13	98.41
			Mz	0.33	0.28	0.23	0.19	0.14	0.09	0.04	0.00	-0.05
		1.35-PP+1.35-CM+1.5-Q	N	0.498	0.498	0.498	0.498	0.498	0.498	0.498	0.498	0.498
			Vy	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255
			Vz	75.399	77.443	79.486	81.530	83.574	85.617	87.661	89.705	91.749
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	238.50	222.96	207.00	190.62	173.84	156.63	139.01	120.97	102.52
			Mz	0.36	0.31	0.26	0.20	0.15	0.10	0.05	0.00	-0.06
		PP+CM+1.5-V	N	2.033	2.033	2.033	2.033	2.033	2.033	2.033	2.033	2.033
			Vy	3.058	3.058	2.910	2.744	2.578	2.412	2.385	2.385	2.385
			Vz	11.127	11.398	11.669	11.940	12.211	12.482	12.753	13.024	13.295
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	34.71	32.42	30.08	27.68	25.22	22.71	20.14	17.52	14.85
			Mz	0.06	-0.56	-1.17	-1.75	-2.29	-2.80	-3.28	-3.77	-4.25
		1.35-PP+CM+1.5-V	N	2.088	2.088	2.088	2.088	2.088	2.088	2.088	2.088	2.088
			Vy	3.081	3.081	2.932	2.766	2.600	2.434	2.407	2.407	2.407
			Vz	14.188	14.532	14.875	15.218	15.561	15.904	16.247	16.590	16.933
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	44.27	41.35	38.36	35.30	32.17	28.97	25.70	22.37	18.96
			Mz	0.09	-0.54	-1.15	-1.73	-2.28	-2.79	-3.28	-3.77	-4.26
		PP+1.35-CM+1.5-V	N	2.036	2.036	2.036	2.036	2.036	2.036	2.036	2.036	2.036
			Vy	3.060	3.060	2.912	2.746	2.580	2.414	2.387	2.387	2.387
			Vz	11.959	12.253	12.547	12.841	13.135	13.428	13.722	14.016	14.310
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	37.35	34.88	32.36	29.78	27.14	24.44	21.68	18.86	15.98
			Mz	0.06	-0.56	-1.17	-1.75	-2.29	-2.79	-3.28	-3.77	-4.25
		1.35-PP+1.35-CM+1.5-V	N	2.091	2.091	2.091	2.091	2.091	2.091	2.091	2.091	2.091
			Vy	3.083	3.083	2.935	2.769	2.603	2.437	2.410	2.410	2.410
			Vz	15.021	15.387	15.753	16.119	16.485	16.850	17.216	17.582	17.948
			Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
			My	46.91	43.82	40.65	37.41	34.09	30.70	27.24	23.70	20.09
			Mz	0.09	-0.53	-1.15	-1.73	-2.27	-2.79	-3.28	-3.77	-4.26
		PP+CM+1.05-Q+1.5-V	N	2.227	2.227	2.227	2.227	2.227	2.227	2.227	2.227	2.227
			Vy	3.169	3.169	3.021	2.855	2.689	2.523	2.496	2.496	2.496
			Vz	53.391	54.837	56.282	57.728	59.173	60.619	62.064	63.510	64.955
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	168.73	157.72	146.42	134.83	122.94	110.76	98.29	85.52	72.46
			Mz	0.22	-0.43	-1.06	-1.66	-2.22	-2.75	-3.26	-3.76	-4.27
		1.35-PP+CM+1.05-Q+1.5-V	N	2.282	2.282	2.282	2.282	2.282	2.282	2.282	2.282	2.282
			Vy	3.192	3.192	3.043	2.877	2.711	2.545	2.518	2.518	2.518
			Vz	56.453	57.970	59.488	61.006	62.523	64.041	65.558	67.076	68.594
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	178.29	166.66	154.71	142.46	129.90	117.03	103.85	90.36	76.57
			Mz	0.25	-0.40	-1.04	-1.64	-2.21	-2.74	-3.25	-3.77	-4.28
		PP+1.35-CM+1.05-Q+1.5-V	N	2.230	2.230	2.230	2.230	2.230	2.230	2.230	2.230	2.230
			Vy	3.171	3.171	3.023	2.857	2.691	2.525	2.498	2.498	2.498

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	54.224	55.692	57.160	58.629	60.097	61.565	63.034	64.502	65.970
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	171.36	160.19	148.71	136.94	124.87	112.49	99.82	86.86	73.59
			Mz	0.22	-0.42	-1.06	-1.65	-2.22	-2.75	-3.26	-3.76	-4.27
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284
			Vy	3.194	3.194	3.046	2.880	2.714	2.548	2.521	2.521	2.521
			Vz	57.285	58.826	60.366	61.907	63.447	64.987	66.528	68.068	69.608
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	180.93	169.12	157.00	144.57	131.82	118.76	105.39	91.70	77.70
			Mz	0.25	-0.40	-1.03	-1.64	-2.21	-2.74	-3.25	-3.77	-4.28
		PP+CM+1.5·Q+0.9·V	N	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563
			Vy	2.022	2.022	1.933	1.833	1.734	1.634	1.618	1.618	1.618
			Vz	71.504	73.453	75.402	77.351	79.300	81.249	83.198	85.147	87.095
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	226.22	211.48	196.34	180.81	164.88	148.55	131.83	114.71	97.20
			Mz	0.30	-0.11	-0.51	-0.90	-1.26	-1.60	-1.93	-2.26	-2.59
		1.35·PP+CM+1.5·Q+0.9·V	N	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617
			Vy	2.045	2.045	1.956	1.856	1.757	1.657	1.641	1.641	1.641
			Vz	74.566	76.587	78.608	80.629	82.650	84.671	86.692	88.713	90.734
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	235.78	220.41	204.63	188.44	171.83	154.82	137.39	119.56	101.31
			Mz	0.33	-0.08	-0.49	-0.88	-1.25	-1.59	-1.93	-2.26	-2.59
		PP+1.35·CM+1.5·Q+0.9·V	N	1.565	1.565	1.565	1.565	1.565	1.565	1.565	1.565	1.565
			Vy	2.024	2.024	1.935	1.836	1.736	1.637	1.620	1.620	1.620
			Vz	72.337	74.309	76.280	78.252	80.224	82.195	84.167	86.139	88.110
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	228.86	213.94	198.63	182.92	166.80	150.29	133.37	116.05	98.33
			Mz	0.30	-0.11	-0.51	-0.89	-1.26	-1.60	-1.93	-2.26	-2.59
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	1.620	1.620	1.620	1.620	1.620	1.620	1.620	1.620	1.620
			Vy	2.047	2.047	1.958	1.858	1.759	1.659	1.643	1.643	1.643
			Vz	75.399	77.443	79.486	81.530	83.574	85.617	87.661	89.705	91.749
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	238.42	222.87	206.92	190.54	173.75	156.55	138.93	120.89	102.44
			Mz	0.34	-0.08	-0.49	-0.88	-1.24	-1.59	-1.93	-2.26	-2.60
		PP+CM+1.5·N	N	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873
			Vy	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330
			Vz	24.841	25.311	25.780	26.249	26.719	27.188	27.657	28.126	28.596
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	76.48	71.38	66.19	60.90	55.51	50.03	44.45	38.78	33.01
			Mz	0.44	0.38	0.31	0.24	0.17	0.11	0.04	-0.03	-0.09
		1.35·PP+CM+1.5·N	N	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.928
			Vy	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
			Vz	27.903	28.444	28.986	29.527	30.069	30.610	31.151	31.693	32.234
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	86.04	80.31	74.47	68.52	62.46	56.29	50.01	43.62	37.12
			Mz	0.47	0.40	0.33	0.26	0.19	0.12	0.04	-0.03	-0.10
		PP+1.35·CM+1.5·N	N	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876
			Vy	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
			Vz	25.674	26.166	26.658	27.150	27.642	28.134	28.626	29.119	29.611
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	79.12	73.85	68.47	63.00	57.43	51.76	45.99	40.12	34.14
			Mz	0.45	0.38	0.31	0.24	0.18	0.11	0.04	-0.03	-0.09
		1.35·PP+1.35·CM+1.5·N	N	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931
			Vy	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355
			Vz	28.736	29.300	29.864	30.428	30.992	31.556	32.121	32.685	33.249
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	88.68	82.78	76.76	70.63	64.38	58.02	51.55	44.96	38.25

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m	
			Mz	0.48	0.41	0.33	0.26	0.19	0.12	0.04	-0.03	-0.10	
		PP+CM+1.05·Q+1.5·N	N	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067
			Vy	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
			Vz	67.106	68.749	70.393	72.037	73.681	75.325	76.968	78.612	80.256	
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	210.50	196.69	182.54	168.05	153.24	138.08	122.60	106.78	90.62	
			Mz	0.60	0.51	0.42	0.33	0.24	0.15	0.06	-0.03	-0.12	
		1.35·PP+CM+1.05·Q+1.5·N	N	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122
			Vy	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464
			Vz	70.167	71.883	73.599	75.315	77.031	78.747	80.463	82.179	83.894	
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	220.06	205.62	190.82	175.68	160.19	144.35	128.16	111.62	94.73	
			Mz	0.63	0.54	0.44	0.35	0.26	0.16	0.07	-0.03	-0.12	
		PP+1.35·CM+1.05·Q+1.5·N	N	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070
			Vy	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444
			Vz	67.938	69.605	71.272	72.938	74.605	76.271	77.938	79.604	81.271	
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	213.14	199.15	184.82	170.16	155.16	139.81	124.13	108.11	91.75	
			Mz	0.61	0.52	0.43	0.34	0.24	0.15	0.06	-0.03	-0.12	
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125
			Vy	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466
			Vz	71.000	72.739	74.477	76.216	77.955	79.693	81.432	83.171	84.909	
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	222.70	208.08	193.11	177.79	162.11	146.08	129.69	112.96	95.86	
			Mz	0.64	0.54	0.45	0.35	0.26	0.16	0.07	-0.03	-0.12	
		PP+CM+0.9·V+1.5·N	N	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995
			Vy	2.122	2.122	2.033	1.934	1.834	1.735	1.718	1.718	1.718	1.718
			Vz	24.841	25.311	25.780	26.249	26.719	27.188	27.657	28.126	28.596	
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	76.40	71.30	66.11	60.82	55.43	49.95	44.37	38.70	32.93	
			Mz	0.42	-0.01	-0.44	-0.84	-1.22	-1.58	-1.93	-2.28	-2.63	
		1.35·PP+CM+0.9·V+1.5·N	N	2.049	2.049	2.049	2.049	2.049	2.049	2.049	2.049	2.049	2.049
			Vy	2.145	2.145	2.056	1.956	1.857	1.757	1.741	1.741	1.741	1.741
			Vz	27.903	28.444	28.986	29.527	30.069	30.610	31.151	31.693	32.234	
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	85.96	80.23	74.39	68.44	62.38	56.21	49.93	43.54	37.04	
			Mz	0.45	0.01	-0.41	-0.82	-1.21	-1.58	-1.93	-2.28	-2.64	
		PP+1.35·CM+0.9·V+1.5·N	N	1.997	1.997	1.997	1.997	1.997	1.997	1.997	1.997	1.997	1.997
			Vy	2.125	2.125	2.036	1.936	1.836	1.737	1.721	1.721	1.721	1.721
			Vz	25.674	26.166	26.658	27.150	27.642	28.134	28.626	29.119	29.611	
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	79.04	73.76	68.39	62.92	57.35	51.68	45.91	40.03	34.06	
			Mz	0.42	-0.01	-0.43	-0.84	-1.22	-1.58	-1.93	-2.28	-2.63	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	2.052	2.052	2.052	2.052	2.052	2.052	2.052	2.052	2.052	2.052
			Vy	2.147	2.147	2.058	1.959	1.859	1.760	1.743	1.743	1.743	1.743
			Vz	28.736	29.300	29.864	30.428	30.992	31.556	32.121	32.685	33.249	
			Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			My	88.60	82.70	76.68	70.55	64.30	57.94	51.47	44.88	38.17	
			Mz	0.45	0.02	-0.41	-0.82	-1.21	-1.58	-1.93	-2.28	-2.64	
		PP+CM+1.05·Q+0.9·V+1.5·N	N	2.189	2.189	2.189	2.189	2.189	2.189	2.189	2.189	2.189	2.189
			Vy	2.233	2.233	2.144	2.045	1.945	1.846	1.829	1.829	1.829	1.829
			Vz	67.106	68.749	70.393	72.037	73.681	75.325	76.968	78.612	80.256	
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	210.42	196.60	182.46	167.97	153.15	138.00	122.52	106.70	90.54	
			Mz	0.58	0.12	-0.32	-0.75	-1.15	-1.54	-1.91	-2.28	-2.65	
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	2.243	2.243	2.243	2.243	2.243	2.243	2.243	2.243	2.243	2.243
			Vy	2.256	2.256	2.167	2.067	1.968	1.868	1.852	1.852	1.852	1.852

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	70.167	71.883	73.599	75.315	77.031	78.747	80.463	82.179	83.894
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	219.98	205.54	190.74	175.60	160.11	144.27	128.08	111.54	94.65
			Mz	0.61	0.15	-0.30	-0.73	-1.14	-1.53	-1.91	-2.28	-2.66
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.191	2.191	2.191	2.191	2.191	2.191	2.191	2.191	2.191
			Vy	2.236	2.236	2.147	2.047	1.947	1.848	1.832	1.832	1.832
			Vz	67.938	69.605	71.272	72.938	74.605	76.271	77.938	79.604	81.271
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	213.05	199.07	184.74	170.08	155.08	139.73	124.05	108.03	91.67
			Mz	0.58	0.13	-0.32	-0.75	-1.15	-1.54	-1.91	-2.28	-2.66
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.246	2.246	2.246	2.246	2.246	2.246	2.246	2.246	2.246
			Vy	2.258	2.258	2.169	2.070	1.970	1.871	1.854	1.854	1.854
			Vz	71.000	72.739	74.477	76.216	77.955	79.693	81.432	83.171	84.909
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	222.62	208.00	193.03	177.71	162.03	146.00	129.61	112.88	95.78
			Mz	0.61	0.15	-0.30	-0.73	-1.14	-1.53	-1.91	-2.28	-2.66
		PP+CM+1.5·Q+0.75·N	N	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796
			Vy	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
			Vz	78.362	80.410	82.458	84.506	86.554	88.602	90.650	92.698	94.746
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	247.12	230.97	214.41	197.43	180.04	162.23	144.00	125.36	106.30
			Mz	0.50	0.42	0.35	0.28	0.21	0.13	0.06	-0.01	-0.09
		1.35·PP+CM+1.5·Q+0.75·N	N	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
			Vy	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382
			Vz	81.423	83.543	85.664	87.784	89.904	92.024	94.144	96.264	98.384
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	256.68	239.90	222.70	205.06	186.99	168.49	149.56	130.20	110.41
			Mz	0.53	0.45	0.37	0.30	0.22	0.14	0.06	-0.01	-0.09
		PP+1.35·CM+1.5·Q+0.75·N	N	0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798
			Vy	0.362	0.362	0.362	0.362	0.362	0.362	0.362	0.362	0.362
			Vz	79.194	81.265	83.336	85.407	87.478	89.548	91.619	93.690	95.761
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	249.75	233.44	216.70	199.54	181.96	163.96	145.54	126.69	107.43
			Mz	0.50	0.43	0.35	0.28	0.21	0.13	0.06	-0.01	-0.09
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
			Vy	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385
			Vz	82.256	84.399	86.542	88.685	90.828	92.970	95.113	97.256	99.399
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	259.32	242.37	224.99	207.17	188.91	170.22	151.10	131.54	111.54
			Mz	0.53	0.45	0.38	0.30	0.22	0.14	0.06	-0.01	-0.09
		PP+CM+1.5·V+0.75·N	N	2.388	2.388	2.388	2.388	2.388	2.388	2.388	2.388	2.388
			Vy	3.187	3.187	3.039	2.873	2.707	2.541	2.514	2.514	2.514
			Vz	17.984	18.354	18.724	19.095	19.465	19.835	20.205	20.575	20.945
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	55.53	51.83	48.06	44.22	40.30	36.30	32.23	28.08	23.86
			Mz	0.23	-0.42	-1.05	-1.65	-2.22	-2.75	-3.27	-3.78	-4.29
		1.35·PP+CM+1.5·V+0.75·N	N	2.442	2.442	2.442	2.442	2.442	2.442	2.442	2.442	2.442
			Vy	3.210	3.210	3.062	2.896	2.730	2.564	2.537	2.537	2.537
			Vz	21.046	21.488	21.930	22.372	22.815	23.257	23.699	24.141	24.584
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	65.09	60.77	56.35	51.85	47.25	42.57	37.79	32.93	27.97
			Mz	0.26	-0.39	-1.03	-1.64	-2.21	-2.75	-3.26	-3.78	-4.29
		PP+1.35·CM+1.5·V+0.75·N	N	2.390	2.390	2.390	2.390	2.390	2.390	2.390	2.390	2.390
			Vy	3.190	3.190	3.041	2.875	2.709	2.543	2.516	2.516	2.516
			Vz	18.817	19.210	19.603	19.996	20.388	20.781	21.174	21.567	21.960
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	58.16	54.30	50.35	46.32	42.22	38.03	33.77	29.42	24.99

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.23	-0.41	-1.05	-1.65	-2.22	-2.75	-3.27	-3.78	-4.29
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	2.445	2.445	2.445	2.445	2.445	2.445	2.445	2.445	2.445
			Vy	3.212	3.212	3.064	2.898	2.732	2.566	2.539	2.539	2.539
			Vz	21.878	22.343	22.808	23.273	23.738	24.203	24.669	25.134	25.599
			Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			My	67.73	63.23	58.64	53.95	49.17	44.30	39.33	34.26	29.10
			Mz	0.27	-0.39	-1.03	-1.63	-2.21	-2.75	-3.26	-3.78	-4.30
		PP+CM+1.05·Q+1.5·V+0.75·N	N	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582
			Vy	3.298	3.298	3.150	2.984	2.818	2.652	2.625	2.625	2.625
			Vz	60.248	61.793	63.338	64.882	66.427	67.972	69.516	71.061	72.606
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	189.55	177.14	164.41	151.37	138.02	124.36	110.38	96.08	81.47
			Mz	0.39	-0.28	-0.94	-1.56	-2.15	-2.71	-3.24	-3.78	-4.31
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.636
			Vy	3.321	3.321	3.173	3.007	2.841	2.675	2.648	2.648	2.648
			Vz	63.310	64.927	66.544	68.160	69.777	71.394	73.011	74.627	76.244
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	199.11	186.07	172.70	159.00	144.98	130.62	115.94	100.92	85.58
			Mz	0.42	-0.25	-0.92	-1.54	-2.14	-2.70	-3.24	-3.78	-4.32
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	2.584	2.584	2.584	2.584	2.584	2.584	2.584	2.584	2.584
			Vy	3.301	3.301	3.152	2.986	2.820	2.654	2.627	2.627	2.627
			Vz	61.081	62.649	64.216	65.783	67.351	68.918	70.486	72.053	73.621
			Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
			My	192.18	179.60	166.70	153.48	139.94	126.09	111.91	97.42	82.60
			Mz	0.39	-0.28	-0.94	-1.56	-2.15	-2.71	-3.24	-3.78	-4.31
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	2.639	2.639	2.639	2.639	2.639	2.639	2.639	2.639	2.639
			Vy	3.323	3.323	3.175	3.009	2.843	2.677	2.650	2.650	2.650
			Vz	64.143	65.782	67.422	69.061	70.701	72.340	73.980	75.619	77.259
			Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			My	201.74	188.53	174.99	161.11	146.90	132.35	117.47	102.26	86.71
			Mz	0.42	-0.25	-0.91	-1.54	-2.14	-2.70	-3.24	-3.78	-4.32
		PP+CM+1.5·Q+0.9·V+0.75·N	N	1.917	1.917	1.917	1.917	1.917	1.917	1.917	1.917	1.917
			Vy	2.151	2.151	2.062	1.963	1.863	1.764	1.747	1.747	1.747
			Vz	78.362	80.410	82.458	84.506	86.554	88.602	90.650	92.698	94.746
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	247.04	230.89	214.33	197.35	179.96	162.15	143.92	125.28	106.22
			Mz	0.47	0.04	-0.39	-0.80	-1.19	-1.56	-1.92	-2.27	-2.63
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	1.972	1.972	1.972	1.972	1.972	1.972	1.972	1.972	1.972
			Vy	2.174	2.174	2.085	1.986	1.886	1.786	1.770	1.770	1.770
			Vz	81.423	83.543	85.664	87.784	89.904	92.024	94.144	96.264	98.384
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	256.60	239.82	222.62	204.98	186.91	168.41	149.48	130.12	110.33
			Mz	0.51	0.06	-0.37	-0.78	-1.18	-1.55	-1.91	-2.27	-2.63
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.920	1.920	1.920	1.920	1.920	1.920	1.920	1.920	1.920
			Vy	2.154	2.154	2.065	1.965	1.866	1.766	1.750	1.750	1.750
			Vz	79.194	81.265	83.336	85.407	87.478	89.548	91.619	93.690	95.761
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	249.67	233.36	216.62	199.46	181.88	163.88	145.46	126.61	107.35
			Mz	0.48	0.04	-0.39	-0.80	-1.19	-1.56	-1.92	-2.27	-2.63
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.975	1.975	1.975	1.975	1.975	1.975	1.975	1.975	1.975
			Vy	2.176	2.176	2.087	1.988	1.888	1.789	1.772	1.772	1.772
			Vz	82.256	84.399	86.542	88.685	90.828	92.970	95.113	97.256	99.399
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	259.23	242.29	224.90	207.09	188.83	170.14	151.02	131.46	111.46
			Mz	0.51	0.07	-0.37	-0.78	-1.18	-1.55	-1.91	-2.27	-2.63

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación	Esfuerzo	Posiciones en la barra						
		Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
N27/N1	Madera	PP+CM	N	0.217	0.217	0.217	0.217	0.217	0.217	0.217
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	13.511	13.745	13.979	14.213	14.446	14.680	14.914
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	14.97	12.57	10.14	7.67	5.15	2.60	0.00
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00
		1.35·PP+CM	N	0.288	0.288	0.288	0.288	0.288	0.288	0.288
			Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
			Vz	17.223	17.519	17.815	18.112	18.408	18.704	19.000
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	19.07	16.02	12.92	9.77	6.57	3.31	0.00
			Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		PP+1.35·CM	N	0.222	0.222	0.222	0.222	0.222	0.222	0.222
			Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
			Vz	14.527	14.781	15.034	15.288	15.541	15.795	16.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	16.10	13.53	10.91	8.25	5.54	2.79	0.00
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.293	0.293	0.293	0.293	0.293	0.293	0.293
			Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
			Vz	18.240	18.555	18.871	19.187	19.503	19.818	20.134
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	20.20	16.98	13.69	10.35	6.96	3.51	0.00
			Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		PP+CM+1.5·Q	N	0.604	0.604	0.604	0.604	0.604	0.604	0.604
			Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
			Vz	87.324	89.005	90.687	92.369	94.051	95.732	97.414
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	97.26	81.79	66.02	49.96	33.60	16.95	0.00
			Mz	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		1.35·PP+CM+1.5·Q	N	0.674	0.674	0.674	0.674	0.674	0.674	0.674
			Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
			Vz	91.036	92.780	94.524	96.268	98.012	99.756	101.500
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	101.37	85.24	68.80	52.06	35.01	17.66	0.00
			Mz	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		PP+1.35·CM+1.5·Q	N	0.609	0.609	0.609	0.609	0.609	0.609	0.609
			Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
			Vz	88.340	90.041	91.743	93.444	95.146	96.847	98.548
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	98.40	82.74	66.79	50.54	33.99	17.15	0.00
			Mz	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		1.35·PP+1.35·CM+1.5·Q	N	0.680	0.680	0.680	0.680	0.680	0.680	0.680
			Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
			Vz	92.052	93.816	95.580	97.343	99.107	100.870	102.634
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	102.50	86.19	69.57	52.64	35.41	17.86	0.00
			Mz	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		PP+CM+1.5·V	N	6.132	6.132	6.132	6.132	6.132	6.132	6.132
			Vy	-4.059	-4.059	-4.162	-4.305	-4.448	-4.591	-4.735
			Vz	13.511	13.745	13.979	14.213	14.446	14.680	14.914

Esfuerzos en barras, por combinación											
Barra	Combinación		Esfuerzo	Posiciones en la barra							
	Tipo	Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	14.97	12.57	10.14	7.67	5.15	2.60	0.00	
			Mz	-4.55	-3.84	-3.12	-2.38	-1.61	-0.82	0.00	
			1.35·PP+CM+1.5·V	N	6.202	6.202	6.202	6.202	6.202	6.202	6.202
				Vy	-4.064	-4.064	-4.166	-4.310	-4.453	-4.596	-4.739
				Vz	17.223	17.519	17.815	18.112	18.408	18.704	19.000
				Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				My	19.07	16.02	12.92	9.77	6.57	3.31	0.00
				Mz	-4.56	-3.85	-3.13	-2.38	-1.61	-0.82	0.00
		PP+1.35·CM+1.5·V	N	6.137	6.137	6.137	6.137	6.137	6.137	6.137	
			Vy	-4.059	-4.059	-4.162	-4.305	-4.449	-4.592	-4.735	
			Vz	14.527	14.781	15.034	15.288	15.541	15.795	16.048	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	16.10	13.53	10.91	8.25	5.54	2.79	0.00	
			Mz	-4.55	-3.84	-3.12	-2.38	-1.61	-0.82	0.00	
		1.35·PP+1.35·CM+1.5·V	N	6.208	6.208	6.208	6.208	6.208	6.208	6.208	
			Vy	-4.064	-4.064	-4.167	-4.310	-4.453	-4.597	-4.740	
			Vz	18.240	18.555	18.871	19.187	19.503	19.818	20.134	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	20.20	16.98	13.69	10.35	6.96	3.51	0.00	
			Mz	-4.56	-3.85	-3.13	-2.38	-1.61	-0.82	0.00	
		PP+CM+1.05·Q+1.5·V	N	6.402	6.402	6.402	6.402	6.402	6.402	6.402	
			Vy	-4.077	-4.077	-4.180	-4.323	-4.466	-4.610	-4.753	
			Vz	65.180	66.427	67.675	68.922	70.169	71.417	72.664	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	72.57	61.03	49.26	37.27	25.07	12.64	0.00	
			Mz	-4.57	-3.86	-3.14	-2.39	-1.62	-0.82	0.00	
		1.35·PP+CM+1.05·Q+1.5·V	N	6.473	6.473	6.473	6.473	6.473	6.473	6.473	
			Vy	-4.082	-4.082	-4.185	-4.328	-4.471	-4.614	-4.758	
			Vz	68.892	70.202	71.511	72.821	74.131	75.440	76.750	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	76.68	64.48	52.04	39.37	26.48	13.35	0.00	
			Mz	-4.58	-3.86	-3.14	-2.39	-1.62	-0.82	0.00	
		PP+1.35·CM+1.05·Q+1.5·V	N	6.407	6.407	6.407	6.407	6.407	6.407	6.407	
			Vy	-4.078	-4.078	-4.180	-4.324	-4.467	-4.610	-4.753	
			Vz	66.196	67.463	68.730	69.997	71.264	72.531	73.798	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	73.71	61.98	50.03	37.85	25.46	12.84	0.00	
			Mz	-4.57	-3.86	-3.14	-2.39	-1.62	-0.82	0.00	
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	6.478	6.478	6.478	6.478	6.478	6.478	6.478	
			Vy	-4.082	-4.082	-4.185	-4.328	-4.472	-4.615	-4.758	
			Vz	69.909	71.238	72.567	73.896	75.226	76.555	77.884	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	77.81	65.43	52.81	39.96	26.87	13.55	0.00	
			Mz	-4.58	-3.86	-3.14	-2.39	-1.62	-0.82	0.00	
		PP+CM+1.5·Q+0.9·V	N	4.152	4.152	4.152	4.152	4.152	4.152	4.152	
			Vy	-2.467	-2.467	-2.529	-2.615	-2.701	-2.787	-2.873	
			Vz	87.324	89.005	90.687	92.369	94.051	95.732	97.414	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	97.26	81.79	66.02	49.96	33.60	16.95	0.00	
			Mz	-2.77	-2.33	-1.90	-1.44	-0.98	-0.50	0.00	

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación	Esfuerzo	Posiciones en la barra						
		Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
		1.35·PP+CM+1.5·Q+0.9·V	N	4.223	4.223	4.223	4.223	4.223	4.223	4.223
			Vy	-2.472	-2.472	-2.534	-2.620	-2.706	-2.792	-2.878
			Vz	91.036	92.780	94.524	96.268	98.012	99.756	101.500
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	101.37	85.24	68.80	52.06	35.01	17.66	0.00
			Mz	-2.77	-2.34	-1.90	-1.45	-0.98	-0.50	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	4.158	4.158	4.158	4.158	4.158	4.158	4.158
			Vy	-2.468	-2.468	-2.530	-2.616	-2.701	-2.787	-2.873
			Vz	88.340	90.041	91.743	93.444	95.146	96.847	98.548
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	98.40	82.74	66.79	50.54	33.99	17.15	0.00
			Mz	-2.77	-2.33	-1.90	-1.44	-0.98	-0.50	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	4.228	4.228	4.228	4.228	4.228	4.228	4.228
			Vy	-2.473	-2.473	-2.534	-2.620	-2.706	-2.792	-2.878
			Vz	92.052	93.816	95.580	97.343	99.107	100.870	102.634
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	102.50	86.19	69.57	52.64	35.41	17.86	0.00
			Mz	-2.77	-2.34	-1.90	-1.45	-0.98	-0.50	0.00
		PP+CM+1.5·N	N	1.111	1.111	1.111	1.111	1.111	1.111	1.111
			Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
			Vz	30.131	30.536	30.941	31.346	31.750	32.155	32.560
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	33.01	27.68	22.29	16.82	11.29	5.68	0.00
			Mz	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		1.35·PP+CM+1.5·N	N	1.181	1.181	1.181	1.181	1.181	1.181	1.181
			Vy	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
			Vz	33.843	34.310	34.777	35.245	35.712	36.179	36.646
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	37.11	31.13	25.07	18.93	12.70	6.39	0.00
			Mz	-0.08	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
		PP+1.35·CM+1.5·N	N	1.116	1.116	1.116	1.116	1.116	1.116	1.116
			Vy	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076
			Vz	31.147	31.572	31.996	32.421	32.845	33.270	33.695
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	34.14	28.64	23.06	17.40	11.68	5.88	0.00
			Mz	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		1.35·PP+1.35·CM+1.5·N	N	1.187	1.187	1.187	1.187	1.187	1.187	1.187
			Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
			Vz	34.859	35.346	35.833	36.320	36.807	37.294	37.780
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	38.24	32.08	25.84	19.51	13.09	6.59	0.00
			Mz	-0.08	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
		PP+CM+1.05·Q+1.5·N	N	1.381	1.381	1.381	1.381	1.381	1.381	1.381
			Vy	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vz	81.799	83.218	84.636	86.055	87.473	88.892	90.310
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	90.62	76.14	61.41	46.43	31.20	15.73	0.00
			Mz	-0.10	-0.08	-0.07	-0.05	-0.03	-0.02	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	1.452	1.452	1.452	1.452	1.452	1.452	1.452
			Vy	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098
			Vz	85.512	86.993	88.473	89.954	91.435	92.915	94.396

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación Descripción	Esfuerzo	Posiciones en la barra						
				0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	94.72	79.58	64.19	48.53	32.61	16.44	0.00
			Mz	-0.10	-0.09	-0.07	-0.05	-0.03	-0.02	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	1.386	1.386	1.386	1.386	1.386	1.386	1.386
			Vy	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vz	82.816	84.254	85.692	87.130	88.568	90.007	91.445
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	91.75	77.09	62.18	47.01	31.59	15.92	0.00
			Mz	-0.10	-0.08	-0.07	-0.05	-0.03	-0.02	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.457	1.457	1.457	1.457	1.457	1.457	1.457
			Vy	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099
			Vz	86.528	88.029	89.529	91.029	92.530	94.030	95.530
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.85	80.54	64.96	49.11	33.00	16.63	0.00
			Mz	-0.10	-0.09	-0.07	-0.05	-0.03	-0.02	0.00
		PP+CM+0.9·V+1.5·N	N	4.659	4.659	4.659	4.659	4.659	4.659	4.659
			Vy	-2.502	-2.502	-2.563	-2.649	-2.735	-2.821	-2.907
			Vz	30.131	30.536	30.941	31.346	31.750	32.155	32.560
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	33.01	27.68	22.29	16.82	11.29	5.68	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	4.730	4.730	4.730	4.730	4.730	4.730	4.730
			Vy	-2.506	-2.506	-2.568	-2.654	-2.740	-2.826	-2.912
			Vz	33.843	34.310	34.777	35.245	35.712	36.179	36.646
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	37.11	31.13	25.07	18.93	12.70	6.39	0.00
			Mz	-2.81	-2.37	-1.92	-1.46	-0.99	-0.50	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	4.664	4.664	4.664	4.664	4.664	4.664	4.664
			Vy	-2.502	-2.502	-2.564	-2.650	-2.736	-2.822	-2.908
			Vz	31.147	31.572	31.996	32.421	32.845	33.270	33.695
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	34.14	28.64	23.06	17.40	11.68	5.88	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	4.735	4.735	4.735	4.735	4.735	4.735	4.735
			Vy	-2.507	-2.507	-2.569	-2.655	-2.740	-2.826	-2.912
			Vz	34.859	35.346	35.833	36.320	36.807	37.294	37.780
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	38.24	32.08	25.84	19.51	13.09	6.59	0.00
			Mz	-2.81	-2.37	-1.92	-1.46	-0.99	-0.50	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	4.930	4.930	4.930	4.930	4.930	4.930	4.930
			Vy	-2.520	-2.520	-2.582	-2.668	-2.753	-2.839	-2.925
			Vz	81.799	83.218	84.636	86.055	87.473	88.892	90.310
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	90.62	76.14	61.41	46.43	31.20	15.73	0.00
			Mz	-2.82	-2.38	-1.93	-1.47	-1.00	-0.51	0.00
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	5.000	5.000	5.000	5.000	5.000	5.000	5.000
			Vy	-2.525	-2.525	-2.586	-2.672	-2.758	-2.844	-2.930
			Vz	85.512	86.993	88.473	89.954	91.435	92.915	94.396
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	94.72	79.58	64.19	48.53	32.61	16.44	0.00
			Mz	-2.83	-2.38	-1.94	-1.47	-1.00	-0.51	0.00

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación	Esfuerzo	Posiciones en la barra						
		Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	4.935	4.935	4.935	4.935	4.935	4.935	4.935
			Vy	-2.520	-2.520	-2.582	-2.668	-2.754	-2.840	-2.926
			Vz	82.816	84.254	85.692	87.130	88.568	90.007	91.445
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	91.75	77.09	62.18	47.01	31.59	15.92	0.00
			Mz	-2.82	-2.38	-1.93	-1.47	-1.00	-0.51	0.00
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	5.006	5.006	5.006	5.006	5.006	5.006	5.006
			Vy	-2.525	-2.525	-2.587	-2.673	-2.759	-2.845	-2.931
			Vz	86.528	88.029	89.529	91.029	92.530	94.030	95.530
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.85	80.54	64.96	49.11	33.00	16.63	0.00
			Mz	-2.83	-2.38	-1.94	-1.47	-1.00	-0.51	0.00
		PP+CM+1.5·Q+0.75·N	N	1.050	1.050	1.050	1.050	1.050	1.050	1.050
			Vy	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
			Vz	95.633	97.401	99.168	100.935	102.703	104.470	106.237
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	106.28	89.35	72.10	54.54	36.67	18.49	0.00
			Mz	-0.08	-0.06	-0.05	-0.04	-0.02	-0.01	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	1.121	1.121	1.121	1.121	1.121	1.121	1.121
			Vy	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076
			Vz	99.346	101.175	103.005	104.834	106.664	108.493	110.323
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	110.39	92.79	74.88	56.64	38.08	19.20	0.00
			Mz	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	1.056	1.056	1.056	1.056	1.056	1.056	1.056
			Vy	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
			Vz	96.650	98.437	100.224	102.011	103.798	105.585	107.372
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	107.42	90.30	72.87	55.12	37.06	18.69	0.00
			Mz	-0.08	-0.06	-0.05	-0.04	-0.02	-0.01	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.126	1.126	1.126	1.126	1.126	1.126	1.126
			Vy	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077
			Vz	100.362	102.211	104.061	105.910	107.759	109.608	111.457
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	111.52	93.75	75.65	57.22	38.47	19.40	0.00
			Mz	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		PP+CM+1.5·V+0.75·N	N	6.578	6.578	6.578	6.578	6.578	6.578	6.578
			Vy	-4.089	-4.089	-4.192	-4.335	-4.478	-4.621	-4.765
			Vz	21.821	22.140	22.460	22.779	23.098	23.418	23.737
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	23.99	20.13	16.22	12.25	8.22	4.14	0.00
			Mz	-4.59	-3.87	-3.14	-2.39	-1.62	-0.82	0.00
		1.35·PP+CM+1.5·V+0.75·N	N	6.649	6.649	6.649	6.649	6.649	6.649	6.649
			Vy	-4.094	-4.094	-4.197	-4.340	-4.483	-4.626	-4.769
			Vz	25.533	25.915	26.296	26.678	27.060	27.441	27.823
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	28.09	23.58	19.00	14.35	9.63	4.85	0.00
			Mz	-4.59	-3.87	-3.15	-2.40	-1.62	-0.82	0.00
		PP+1.35·CM+1.5·V+0.75·N	N	6.584	6.584	6.584	6.584	6.584	6.584	6.584
			Vy	-4.090	-4.090	-4.192	-4.336	-4.479	-4.622	-4.765
			Vz	22.837	23.176	23.515	23.854	24.193	24.533	24.872

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	25.12	21.08	16.98	12.83	8.61	4.34	0.00
			Mz	-4.59	-3.87	-3.14	-2.39	-1.62	-0.82	0.00
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	6.654	6.654	6.654	6.654	6.654	6.654	6.654
			Vy	-4.094	-4.094	-4.197	-4.340	-4.484	-4.627	-4.770
			Vz	26.550	26.951	27.352	27.753	28.155	28.556	28.957
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	29.22	24.53	19.76	14.93	10.02	5.05	0.00
			Mz	-4.59	-3.87	-3.15	-2.40	-1.62	-0.82	0.00
			PP+CM+1.05·Q+1.5·V+0.75·N	N	6.849	6.849	6.849	6.849	6.849	6.849
		Vy		-4.107	-4.107	-4.210	-4.353	-4.497	-4.640	-4.783
		Vz		73.490	74.823	76.156	77.488	78.821	80.154	81.487
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		81.60	68.58	55.33	41.85	28.13	14.18	0.00
		Mz		-4.60	-3.88	-3.16	-2.40	-1.63	-0.83	0.00
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	6.920	6.920	6.920	6.920	6.920	6.920	6.920
			Vy	-4.112	-4.112	-4.215	-4.358	-4.501	-4.645	-4.788
			Vz	77.202	78.597	79.992	81.388	82.783	84.178	85.573
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	85.70	72.03	58.11	43.95	29.55	14.90	0.00
			Mz	-4.61	-3.89	-3.16	-2.41	-1.63	-0.83	0.00
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	6.854	6.854	6.854	6.854	6.854	6.854	6.854
			Vy	-4.108	-4.108	-4.211	-4.354	-4.497	-4.640	-4.783
			Vz	74.506	75.859	77.211	78.564	79.916	81.269	82.622
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	82.73	69.53	56.10	42.43	28.53	14.38	0.00
			Mz	-4.61	-3.88	-3.16	-2.40	-1.63	-0.83	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	6.925	6.925	6.925	6.925	6.925	6.925	6.925
			Vy	-4.113	-4.113	-4.215	-4.359	-4.502	-4.645	-4.788
			Vz	78.218	79.633	81.048	82.463	83.878	85.292	86.707
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	86.83	72.98	58.88	44.53	29.94	15.09	0.00
			Mz	-4.61	-3.89	-3.16	-2.41	-1.63	-0.83	0.00
		PP+CM+1.5·Q+0.9·V+0.75·N	N	4.599	4.599	4.599	4.599	4.599	4.599	4.599
			Vy	-2.498	-2.498	-2.559	-2.645	-2.731	-2.817	-2.903
			Vz	95.633	97.401	99.168	100.935	102.703	104.470	106.237
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	106.28	89.35	72.10	54.54	36.67	18.49	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	4.670	4.670	4.670	4.670	4.670	4.670	4.670
			Vy	-2.502	-2.502	-2.564	-2.650	-2.736	-2.822	-2.908
			Vz	99.346	101.175	103.005	104.834	106.664	108.493	110.323
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	110.39	92.79	74.88	56.64	38.08	19.20	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	4.604	4.604	4.604	4.604	4.604	4.604	4.604
			Vy	-2.498	-2.498	-2.560	-2.646	-2.732	-2.818	-2.903
			Vz	96.650	98.437	100.224	102.011	103.798	105.585	107.372
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	107.42	90.30	72.87	55.12	37.06	18.69	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	4.675	4.675	4.675	4.675	4.675	4.675	4.675
			Vy	-2.503	-2.503	-2.565	-2.650	-2.736	-2.822	-2.908
			Vz	100.362	102.211	104.061	105.910	107.759	109.608	111.457
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	111.52	93.75	75.65	57.22	38.47	19.40	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
N4/N6	Madera	PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-14.874	-14.641	-14.407	-14.174	-13.941	-13.708	-13.474
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.58	5.12	7.63	10.09	12.50	14.88
			Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		1.35·PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-18.960	-18.664	-18.369	-18.074	-17.779	-17.483	-17.188
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.29	6.53	9.72	12.86	15.94	18.98
			Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02
		PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-15.994	-15.741	-15.488	-15.235	-14.983	-14.730	-14.477
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.78	5.51	8.20	10.84	13.44	16.00
			Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		1.35·PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-20.080	-19.765	-19.450	-19.135	-18.820	-18.505	-18.191
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.49	6.92	10.29	13.61	16.88	20.09
			Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02
		PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
			Vz	-97.374	-95.697	-94.020	-92.343	-90.666	-88.989	-87.312
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.89	33.49	49.80	65.81	81.53	96.96
			Mz	0.00	0.01	0.01	0.02	0.03	0.03	0.04
		1.35·PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
			Vz	-101.460	-99.721	-97.982	-96.243	-94.504	-92.765	-91.026
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.60	34.90	51.90	68.59	84.97	101.05
			Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05
		PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
			Vz	-98.494	-96.797	-95.101	-93.404	-91.708	-90.011	-88.314
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.09	33.88	50.37	66.57	82.47	98.07
			Mz	0.00	0.01	0.01	0.02	0.03	0.03	0.04
		1.35·PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
			Vz	-102.580	-100.821	-99.062	-97.304	-95.545	-93.787	-92.028
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.80	35.29	52.47	69.34	85.91	102.17
			Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05
		PP+CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.027	4.027	3.925	3.782	3.639	3.496	3.353
			Vz	-14.874	-14.641	-14.407	-14.174	-13.941	-13.708	-13.474
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.58	5.12	7.63	10.09	12.50	14.88
			Mz	0.00	-0.70	-1.40	-2.08	-2.73	-3.35	-3.95
		1.35·PP+CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.022	4.022	3.920	3.777	3.634	3.491	3.349
			Vz	-18.960	-18.664	-18.369	-18.074	-17.779	-17.483	-17.188
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.29	6.53	9.72	12.86	15.94	18.98
			Mz	0.00	-0.70	-1.40	-2.07	-2.72	-3.35	-3.95
		PP+1.35·CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.027	4.027	3.925	3.782	3.639	3.496	3.353
			Vz	-15.994	-15.741	-15.488	-15.235	-14.983	-14.730	-14.477
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	2.78	5.51	8.20	10.84	13.44	16.00
			Mz	0.00	-0.70	-1.40	-2.08	-2.73	-3.35	-3.95
		1.35·PP+1.35·CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.022	4.022	3.920	3.777	3.634	3.491	3.349
			Vz	-20.080	-19.765	-19.450	-19.135	-18.820	-18.505	-18.191
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	3.49	6.92	10.29	13.61	16.88	20.09
			Mz	0.00	-0.70	-1.40	-2.07	-2.72	-3.35	-3.95
		PP+CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.008	4.008	3.906	3.764	3.621	3.478	3.335
			Vz	-72.624	-71.380	-70.136	-68.892	-67.648	-66.405	-65.161
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	12.60	24.98	37.15	49.10	60.82	72.34
			Mz	0.00	-0.70	-1.40	-2.07	-2.71	-3.33	-3.93
		1.35·PP+CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.004	4.004	3.902	3.759	3.616	3.473	3.330
			Vz	-76.710	-75.404	-74.098	-72.792	-71.486	-70.180	-68.874
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	13.31	26.39	39.24	51.87	64.26	76.43
			Mz	0.00	-0.70	-1.39	-2.07	-2.71	-3.33	-3.93
		PP+1.35·CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.008	4.008	3.906	3.764	3.621	3.478	3.335
			Vz	-73.744	-72.480	-71.217	-69.953	-68.690	-67.427	-66.163
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	12.79	25.37	37.72	49.85	61.76	73.45
			Mz	0.00	-0.70	-1.40	-2.07	-2.71	-3.33	-3.93
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	4.004	4.004	3.902	3.759	3.616	3.473	3.330
			Vz	-77.830	-76.504	-75.179	-73.853	-72.528	-71.202	-69.877
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	13.50	26.78	39.82	52.63	65.20	77.55
			Mz	0.00	-0.70	-1.39	-2.07	-2.71	-3.33	-3.93
		PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Vy	2.384	2.384	2.323	2.238	2.152	2.066	1.981
			Vz	-97.374	-95.697	-94.020	-92.343	-90.666	-88.989	-87.312
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.89	33.49	49.80	65.81	81.53	96.96
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.34
		1.35-PP+CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.380	2.380	2.318	2.233	2.147	2.061	1.976
			Vz	-101.460	-99.721	-97.982	-96.243	-94.504	-92.765	-91.026
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.60	34.90	51.90	68.59	84.97	101.05
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.33
		PP+1.35-CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.384	2.384	2.323	2.238	2.152	2.066	1.981
			Vz	-98.494	-96.797	-95.101	-93.404	-91.708	-90.011	-88.314
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.09	33.88	50.37	66.57	82.47	98.07
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.34
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.380	2.380	2.318	2.233	2.147	2.061	1.976
			Vz	-102.580	-100.821	-99.062	-97.304	-95.545	-93.787	-92.028
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	17.80	35.29	52.47	69.34	85.91	102.17
			Mz	0.00	-0.42	-0.83	-1.23	-1.61	-1.98	-2.33
		PP+CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
			Vz	-32.522	-32.119	-31.715	-31.311	-30.907	-30.503	-30.099
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	5.66	11.24	16.76	22.20	27.57	32.88
			Mz	0.00	0.01	0.03	0.04	0.05	0.06	0.08
		1.35-PP+CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
			Vz	-36.608	-36.142	-35.677	-35.211	-34.745	-34.279	-33.813
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	6.37	12.65	18.85	24.97	31.01	36.97
			Mz	0.00	0.01	0.03	0.04	0.06	0.07	0.08
		PP+1.35-CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
			Vz	-33.642	-33.219	-32.796	-32.372	-31.949	-31.525	-31.102
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	5.85	11.63	17.33	22.96	28.51	33.99
			Mz	0.00	0.01	0.03	0.04	0.05	0.06	0.08
		1.35-PP+1.35-CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
			Vz	-37.728	-37.243	-36.757	-36.272	-35.786	-35.301	-34.816
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	6.56	13.03	19.43	25.73	31.95	38.09
			Mz	0.00	0.01	0.03	0.04	0.06	0.07	0.08
		PP+CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
			Vz	-90.272	-88.858	-87.444	-86.029	-84.615	-83.200	-81.786
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.67	31.10	46.28	61.21	75.89	90.33
			Mz	0.00	0.02	0.03	0.05	0.06	0.08	0.10
		1.35-PP+CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-94.358	-92.882	-91.405	-89.929	-88.452	-86.976	-85.499
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.38	32.51	48.38	63.98	79.33	94.43
			Mz	0.00	0.02	0.03	0.05	0.07	0.08	0.10
		PP+1.35-CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
			Vz	-91.392	-89.958	-88.524	-87.090	-85.656	-84.222	-82.788
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.87	31.49	46.85	61.97	76.83	91.44
			Mz	0.00	0.02	0.03	0.05	0.06	0.08	0.10
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-95.478	-93.982	-92.486	-90.990	-89.494	-87.998	-86.502
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.58	32.89	48.95	64.74	80.27	95.54
			Mz	0.00	0.02	0.03	0.05	0.07	0.08	0.10
		PP+CM+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.350	2.350	2.289	2.203	2.118	2.032	1.946
			Vz	-32.522	-32.119	-31.715	-31.311	-30.907	-30.503	-30.099
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	5.66	11.24	16.76	22.20	27.57	32.88
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.95	-2.30
		1.35-PP+CM+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.345	2.345	2.284	2.199	2.113	2.027	1.942
			Vz	-36.608	-36.142	-35.677	-35.211	-34.745	-34.279	-33.813
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	6.37	12.65	18.85	24.97	31.01	36.97
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.95	-2.30
		PP+1.35-CM+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.350	2.350	2.289	2.203	2.118	2.032	1.946
			Vz	-33.642	-33.219	-32.796	-32.372	-31.949	-31.525	-31.102
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	5.85	11.63	17.33	22.96	28.51	33.99
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.95	-2.30
		1.35-PP+1.35-CM+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.345	2.345	2.284	2.199	2.113	2.027	1.942
			Vz	-37.728	-37.243	-36.757	-36.272	-35.786	-35.301	-34.816
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	6.56	13.03	19.43	25.73	31.95	38.09
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.95	-2.30
		PP+CM+1.05-Q+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.332	2.332	2.271	2.185	2.099	2.014	1.928
			Vz	-90.272	-88.858	-87.444	-86.029	-84.615	-83.200	-81.786
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.67	31.10	46.28	61.21	75.89	90.33
			Mz	0.00	-0.41	-0.81	-1.20	-1.58	-1.94	-2.28
		1.35-PP+CM+1.05-Q+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.327	2.327	2.266	2.180	2.095	2.009	1.923
			Vz	-94.358	-92.882	-91.405	-89.929	-88.452	-86.976	-85.499
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.38	32.51	48.38	63.98	79.33	94.43
			Mz	0.00	-0.41	-0.81	-1.20	-1.57	-1.93	-2.28
		PP+1.35-CM+1.05-Q+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Vy	2.332	2.332	2.271	2.185	2.099	2.014	1.928
			Vz	-91.392	-89.958	-88.524	-87.090	-85.656	-84.222	-82.788
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.87	31.49	46.85	61.97	76.83	91.44
			Mz	0.00	-0.41	-0.81	-1.20	-1.58	-1.94	-2.28
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.327	2.327	2.266	2.180	2.095	2.009	1.923
			Vz	-95.478	-93.982	-92.486	-90.990	-89.494	-87.998	-86.502
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	16.58	32.89	48.95	64.74	80.27	95.54
			Mz	0.00	-0.41	-0.81	-1.20	-1.57	-1.93	-2.28
		PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070
			Vz	-106.198	-104.436	-102.674	-100.911	-99.149	-97.387	-95.624
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.43	36.55	54.37	71.87	89.07	105.96
			Mz	0.00	0.01	0.02	0.04	0.05	0.06	0.07
		1.35·PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
			Vz	-110.284	-108.460	-106.635	-104.811	-102.987	-101.162	-99.338
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	19.14	37.96	56.46	74.64	92.51	110.05
			Mz	0.00	0.01	0.03	0.04	0.05	0.07	0.08
		PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070
			Vz	-107.318	-105.536	-103.754	-101.972	-100.191	-98.409	-96.627
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.62	36.94	54.94	72.63	90.01	107.07
			Mz	0.00	0.01	0.02	0.04	0.05	0.06	0.07
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
			Vz	-111.404	-109.560	-107.716	-105.872	-104.028	-102.184	-100.341
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	19.33	38.35	57.03	75.40	93.44	111.17
			Mz	0.00	0.01	0.03	0.04	0.05	0.07	0.08
		PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	3.996	3.996	3.894	3.752	3.609	3.466	3.323
			Vz	-23.698	-23.380	-23.061	-22.743	-22.424	-22.105	-21.787
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	4.12	8.18	12.19	16.14	20.04	23.88
			Mz	0.00	-0.70	-1.39	-2.06	-2.71	-3.32	-3.92
		1.35·PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	3.992	3.992	3.890	3.747	3.604	3.461	3.318
			Vz	-27.784	-27.403	-27.023	-26.642	-26.262	-25.881	-25.501
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	4.83	9.59	14.29	18.92	23.48	27.97
			Mz	0.00	-0.70	-1.39	-2.06	-2.70	-3.32	-3.91
		PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	3.996	3.996	3.894	3.752	3.609	3.466	3.323
			Vz	-24.818	-24.480	-24.142	-23.804	-23.466	-23.128	-22.789
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	4.31	8.57	12.76	16.90	20.98	24.99
			Mz	0.00	-0.70	-1.39	-2.06	-2.71	-3.32	-3.92
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
			Vy	3.992	3.992	3.890	3.747	3.604	3.461	3.318
			Vz	-28.904	-28.504	-28.104	-27.703	-27.303	-26.903	-26.503
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	5.02	9.98	14.86	19.67	24.42	29.09
			Mz	0.00	-0.70	-1.39	-2.06	-2.70	-3.32	-3.91
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	3.978	3.978	3.876	3.733	3.591	3.448	3.305
			Vz	-81.448	-80.119	-78.790	-77.461	-76.132	-74.802	-73.473
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	14.14	28.04	41.71	55.15	68.36	81.33
			Mz	0.00	-0.70	-1.39	-2.05	-2.69	-3.31	-3.90
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	3.973	3.973	3.871	3.729	3.586	3.443	3.300
			Vz	-85.534	-84.143	-82.752	-81.360	-79.969	-78.578	-77.187
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	14.85	29.45	43.81	57.93	71.80	85.43
			Mz	0.00	-0.70	-1.38	-2.05	-2.69	-3.30	-3.89
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	3.978	3.978	3.876	3.733	3.591	3.448	3.305
			Vz	-82.568	-81.219	-79.871	-78.522	-77.173	-75.824	-74.476
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	14.33	28.43	42.29	55.91	69.30	82.45
			Mz	0.00	-0.70	-1.39	-2.05	-2.69	-3.31	-3.90
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	3.973	3.973	3.871	3.729	3.586	3.443	3.300
			Vz	-86.654	-85.243	-83.832	-82.422	-81.011	-79.600	-78.189
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	15.04	29.84	44.38	58.68	72.74	86.54
			Mz	0.00	-0.70	-1.38	-2.05	-2.69	-3.30	-3.89
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.354	2.354	2.293	2.207	2.122	2.036	1.950
			Vz	-106.198	-104.436	-102.674	-100.911	-99.149	-97.387	-95.624
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.43	36.55	54.37	71.87	89.07	105.96
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.96	-2.31
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.350	2.350	2.288	2.203	2.117	2.031	1.946
			Vz	-110.284	-108.460	-106.635	-104.811	-102.987	-101.162	-99.338
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	19.14	37.96	56.46	74.64	92.51	110.05
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.95	-2.30
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.354	2.354	2.293	2.207	2.122	2.036	1.950
			Vz	-107.318	-105.536	-103.754	-101.972	-100.191	-98.409	-96.627
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	18.62	36.94	54.94	72.63	90.01	107.07
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.96	-2.31
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	2.350	2.350	2.288	2.203	2.117	2.031	1.946
			Vz	-111.404	-109.560	-107.716	-105.872	-104.028	-102.184	-100.341
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	19.33	38.35	57.03	75.40	93.44	111.17
			Mz	0.00	-0.41	-0.82	-1.21	-1.59	-1.95	-2.30

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N6/N8	Madera	PP+CM	N	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
			Vy	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
			Vz	-13.266	-12.995	-12.724	-12.453	-12.182	-11.911	-11.640	-11.369	-11.098
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	14.90	17.57	20.18	22.74	25.25	27.70	30.09	32.43	34.72
			Mz	0.02	0.00	-0.01	-0.03	-0.04	-0.05	-0.07	-0.08	-0.10
		1.35-PP+CM	N	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
			Vy	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
			Vz	-16.906	-16.563	-16.220	-15.877	-15.534	-15.190	-14.847	-14.504	-14.161
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	19.00	22.40	25.73	29.00	32.19	35.32	38.37	41.36	44.27
			Mz	0.02	0.01	-0.01	-0.03	-0.05	-0.07	-0.09	-0.11	-0.13
		PP+1.35-CM	N	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
			Vy	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
			Vz	-14.270	-13.976	-13.683	-13.389	-13.095	-12.801	-12.507	-12.214	-11.920
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	16.01	18.88	21.70	24.45	27.14	29.78	32.35	34.86	37.32
			Mz	0.02	0.00	-0.01	-0.03	-0.04	-0.06	-0.07	-0.09	-0.10
		1.35-PP+1.35-CM	N	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
			Vy	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
			Vz	-17.910	-17.544	-17.178	-16.812	-16.446	-16.080	-15.714	-15.348	-14.983
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	20.11	23.72	27.25	30.70	34.09	37.39	40.63	43.78	46.87
			Mz	0.02	0.01	-0.01	-0.03	-0.05	-0.07	-0.09	-0.11	-0.13
		PP+CM+1.5-Q	N	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154
			Vy	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228
			Vz	-87.092	-85.143	-83.194	-81.245	-79.296	-77.347	-75.398	-73.450	-71.501
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	96.98	114.49	131.61	148.33	164.65	180.58	196.12	211.25	225.99
			Mz	0.05	0.00	-0.04	-0.09	-0.14	-0.18	-0.23	-0.28	-0.32
		1.35-PP+CM+1.5-Q	N	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170
			Vy	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251
			Vz	-90.731	-88.710	-86.689	-84.668	-82.647	-80.626	-78.605	-76.585	-74.564
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	101.08	119.32	137.16	154.58	171.60	188.20	204.39	220.17	235.54
			Mz	0.05	0.01	-0.05	-0.10	-0.15	-0.20	-0.25	-0.30	-0.35
		PP+1.35-CM+1.5-Q	N	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154
			Vy	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
			Vz	-88.095	-86.124	-84.152	-82.180	-80.209	-78.237	-76.265	-74.294	-72.322
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	98.09	115.81	133.12	150.04	166.55	182.66	198.37	213.68	228.59
			Mz	0.05	0.00	-0.04	-0.09	-0.14	-0.19	-0.23	-0.28	-0.33
		1.35-PP+1.35-CM+1.5-Q	N	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170
			Vy	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253
			Vz	-91.735	-89.691	-87.647	-85.604	-83.560	-81.516	-79.473	-77.429	-75.385
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	102.19	120.64	138.67	156.29	173.49	190.28	206.65	222.60	238.14
			Mz	0.05	0.01	-0.05	-0.10	-0.15	-0.20	-0.25	-0.31	-0.36
		PP+CM+1.5-V	N	3.272	3.272	3.272	3.272	3.272	3.272	3.272	3.272	3.272
			Vy	-1.770	-1.770	-1.918	-2.084	-2.250	-2.416	-2.443	-2.443	-2.443
			Vz	-13.266	-12.995	-12.724	-12.453	-12.182	-11.911	-11.640	-11.369	-11.098
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	15.01	17.68	20.29	22.85	25.36	27.81	30.20	32.54	34.83
			Mz	-3.69	-3.33	-2.95	-2.55	-2.11	-1.63	-1.13	-0.64	-0.14
		1.35-PP+CM+1.5-V	N	3.256	3.256	3.256	3.256	3.256	3.256	3.256	3.256	3.256
			Vy	-1.747	-1.747	-1.895	-2.061	-2.227	-2.393	-2.420	-2.420	-2.420
			Vz	-16.906	-16.563	-16.220	-15.877	-15.534	-15.190	-14.847	-14.504	-14.161

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	19.11	22.51	25.84	29.11	32.30	35.43	38.48	41.47	44.38
			Mz	-3.68	-3.32	-2.96	-2.55	-2.12	-1.65	-1.16	-0.66	-0.17
		PP+1.35·CM+1.5·V	N	3.272	3.272	3.272	3.272	3.272	3.272	3.272	3.272	3.272
			Vy	-1.768	-1.768	-1.916	-2.082	-2.248	-2.414	-2.441	-2.441	-2.441
			Vz	-14.270	-13.976	-13.683	-13.389	-13.095	-12.801	-12.507	-12.214	-11.920
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	16.12	18.99	21.81	24.56	27.25	29.89	32.46	34.97	37.43
			Mz	-3.69	-3.33	-2.95	-2.55	-2.11	-1.63	-1.14	-0.64	-0.14
		1.35·PP+1.35·CM+1.5·V	N	3.256	3.256	3.256	3.256	3.256	3.256	3.256	3.256	3.256
			Vy	-1.745	-1.745	-1.893	-2.059	-2.225	-2.391	-2.418	-2.418	-2.418
			Vz	-17.910	-17.544	-17.178	-16.812	-16.446	-16.080	-15.714	-15.348	-14.983
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	20.22	23.83	27.36	30.81	34.20	37.50	40.74	43.90	46.98
			Mz	-3.68	-3.32	-2.96	-2.55	-2.12	-1.65	-1.16	-0.67	-0.17
		PP+CM+1.05·Q+1.5·V	N	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.195
			Vy	-1.659	-1.659	-1.808	-1.974	-2.140	-2.306	-2.333	-2.333	-2.333
			Vz	-64.944	-63.499	-62.053	-60.608	-59.162	-57.716	-56.271	-54.825	-53.380
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	72.46	85.52	98.29	110.76	122.94	134.83	146.42	157.72	168.72
			Mz	-3.67	-3.33	-2.98	-2.59	-2.17	-1.72	-1.25	-0.77	-0.30
		1.35·PP+CM+1.05·Q+1.5·V	N	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180
			Vy	-1.637	-1.637	-1.785	-1.951	-2.117	-2.283	-2.310	-2.310	-2.310
			Vz	-68.584	-67.066	-65.548	-64.031	-62.513	-60.996	-59.478	-57.960	-56.443
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	76.56	90.36	103.84	117.02	129.89	142.45	154.70	166.64	178.27
			Mz	-3.66	-3.32	-2.98	-2.60	-2.19	-1.74	-1.27	-0.80	-0.33
		PP+1.35·CM+1.05·Q+1.5·V	N	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.195	3.195
			Vy	-1.657	-1.657	-1.806	-1.972	-2.138	-2.303	-2.331	-2.331	-2.331
			Vz	-65.948	-64.479	-63.011	-61.543	-60.075	-58.606	-57.138	-55.670	-54.201
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	73.58	86.84	99.80	112.47	124.84	136.91	148.68	160.15	171.32
			Mz	-3.67	-3.33	-2.98	-2.59	-2.18	-1.72	-1.25	-0.78	-0.30
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180
			Vy	-1.635	-1.635	-1.783	-1.949	-2.115	-2.281	-2.308	-2.308	-2.308
			Vz	-69.587	-68.047	-66.507	-64.966	-63.426	-61.885	-60.345	-58.805	-57.264
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	77.68	91.67	105.35	118.72	131.78	144.52	156.95	169.07	180.87
			Mz	-3.66	-3.32	-2.98	-2.60	-2.19	-1.74	-1.27	-0.80	-0.33
		PP+CM+1.5·Q+0.9·V	N	1.836	1.836	1.836	1.836	1.836	1.836	1.836	1.836	1.836
			Vy	-0.876	-0.876	-0.965	-1.065	-1.164	-1.264	-1.280	-1.280	-1.280
			Vz	-87.092	-85.143	-83.194	-81.245	-79.296	-77.347	-75.398	-73.450	-71.501
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	97.04	114.56	131.67	148.40	164.72	180.65	196.18	211.32	226.06
			Mz	-2.17	-1.99	-1.81	-1.60	-1.38	-1.13	-0.87	-0.61	-0.35
		1.35·PP+CM+1.5·Q+0.9·V	N	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820
			Vy	-0.853	-0.853	-0.942	-1.042	-1.142	-1.241	-1.257	-1.257	-1.257
			Vz	-90.731	-88.710	-86.689	-84.668	-82.647	-80.626	-78.605	-76.585	-74.564
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	101.14	119.39	137.22	154.65	171.66	188.27	204.46	220.24	235.61
			Mz	-2.17	-1.99	-1.81	-1.61	-1.39	-1.15	-0.89	-0.64	-0.38
		PP+1.35·CM+1.5·Q+0.9·V	N	1.836	1.836	1.836	1.836	1.836	1.836	1.836	1.836	1.836
			Vy	-0.874	-0.874	-0.963	-1.063	-1.162	-1.262	-1.278	-1.278	-1.278
			Vz	-88.095	-86.124	-84.152	-82.180	-80.209	-78.237	-76.265	-74.294	-72.322
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	98.16	115.87	133.19	150.10	166.61	182.73	198.44	213.75	228.66
			Mz	-2.17	-1.99	-1.81	-1.60	-1.38	-1.13	-0.87	-0.61	-0.35

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820
			Vy	-0.851	-0.851	-0.940	-1.040	-1.140	-1.239	-1.255	-1.255	-1.255
			Vz	-91.735	-89.691	-87.647	-85.604	-83.560	-81.516	-79.473	-77.429	-75.385
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	102.26	120.70	138.74	156.36	173.56	190.34	206.71	222.67	238.21
			Mz	-2.17	-1.99	-1.81	-1.61	-1.39	-1.15	-0.89	-0.64	-0.38
		PP+CM+1.5-N	N	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228
			Vy	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
			Vz	-28.573	-28.103	-27.634	-27.165	-26.695	-26.226	-25.757	-25.287	-24.818
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	32.88	38.64	44.31	49.88	55.36	60.74	66.03	71.22	76.31
			Mz	0.09	0.03	-0.04	-0.11	-0.17	-0.24	-0.31	-0.37	-0.44
		1.35-PP+CM+1.5-N	N	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244
			Vy	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350
			Vz	-32.212	-31.671	-31.129	-30.588	-30.047	-29.505	-28.964	-28.422	-27.881
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	36.98	43.48	49.86	56.14	62.30	68.36	74.31	80.14	85.87
			Mz	0.10	0.03	-0.04	-0.11	-0.19	-0.26	-0.33	-0.40	-0.47
		PP+1.35-CM+1.5-N	N	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228
			Vy	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330
			Vz	-29.576	-29.084	-28.592	-28.100	-27.608	-27.116	-26.624	-26.132	-25.640
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	34.00	39.96	45.83	51.59	57.26	62.82	68.28	73.65	78.91
			Mz	0.09	0.03	-0.04	-0.11	-0.17	-0.24	-0.31	-0.38	-0.44
		1.35-PP+1.35-CM+1.5-N	N	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244
			Vy	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352
			Vz	-33.216	-32.652	-32.087	-31.523	-30.959	-30.395	-29.831	-29.267	-28.702
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	38.10	44.79	51.38	57.84	64.20	70.44	76.56	82.57	88.47
			Mz	0.10	0.03	-0.04	-0.12	-0.19	-0.26	-0.33	-0.40	-0.47
		PP+CM+1.05-Q+1.5-N	N	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305
			Vy	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438
			Vz	-80.250	-78.606	-76.963	-75.319	-73.675	-72.031	-70.387	-68.744	-67.100
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	90.34	106.49	122.31	137.79	152.95	167.76	182.24	196.39	210.21
			Mz	0.11	0.03	-0.06	-0.15	-0.24	-0.33	-0.42	-0.51	-0.60
		1.35-PP+CM+1.05-Q+1.5-N	N	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320
			Vy	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461
			Vz	-83.890	-82.174	-80.458	-78.742	-77.026	-75.310	-73.594	-71.879	-70.163
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	94.44	111.32	127.86	144.05	159.89	175.38	190.52	205.31	219.76
			Mz	0.12	0.03	-0.07	-0.16	-0.25	-0.35	-0.44	-0.54	-0.63
		PP+1.35-CM+1.05-Q+1.5-N	N	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305
			Vy	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440
			Vz	-81.254	-79.587	-77.921	-76.254	-74.588	-72.921	-71.254	-69.588	-67.921
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	91.45	107.81	123.82	139.50	154.84	169.84	184.50	198.82	212.80
			Mz	0.11	0.03	-0.06	-0.15	-0.24	-0.33	-0.42	-0.51	-0.60
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320
			Vy	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463
			Vz	-84.893	-83.155	-81.416	-79.677	-77.939	-76.200	-74.461	-72.723	-70.984
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	95.55	112.64	129.37	145.75	161.78	177.46	192.78	207.74	222.36
			Mz	0.12	0.03	-0.07	-0.16	-0.26	-0.35	-0.44	-0.54	-0.63
		PP+CM+0.9-V+1.5-N	N	1.762	1.762	1.762	1.762	1.762	1.762	1.762	1.762	1.762
			Vy	-0.777	-0.777	-0.865	-0.965	-1.065	-1.164	-1.180	-1.180	-1.180
			Vz	-28.573	-28.103	-27.634	-27.165	-26.695	-26.226	-25.757	-25.287	-24.818

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	32.95	38.71	44.38	49.95	55.43	60.81	66.10	71.29	76.38
			Mz	-2.13	-1.97	-1.81	-1.62	-1.41	-1.19	-0.95	-0.71	-0.47
		1.35·PP+CM+0.9·V+1.5·N	N	1.746	1.746	1.746	1.746	1.746	1.746	1.746	1.746	1.746
			Vy	-0.754	-0.754	-0.843	-0.942	-1.042	-1.142	-1.158	-1.158	-1.158
			Vz	-32.212	-31.671	-31.129	-30.588	-30.047	-29.505	-28.964	-28.422	-27.881
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	37.05	43.54	49.93	56.20	62.37	68.43	74.37	80.21	85.93
			Mz	-2.12	-1.97	-1.81	-1.63	-1.43	-1.20	-0.97	-0.73	-0.50
		PP+1.35·CM+0.9·V+1.5·N	N	1.762	1.762	1.762	1.762	1.762	1.762	1.762	1.762	1.762
			Vy	-0.774	-0.774	-0.863	-0.963	-1.063	-1.162	-1.178	-1.178	-1.178
			Vz	-29.576	-29.084	-28.592	-28.100	-27.608	-27.116	-26.624	-26.132	-25.640
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	34.06	40.03	45.89	51.66	57.32	62.89	68.35	73.72	78.98
			Mz	-2.13	-1.97	-1.81	-1.62	-1.41	-1.19	-0.95	-0.71	-0.47
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	1.746	1.746	1.746	1.746	1.746	1.746	1.746	1.746	1.746
			Vy	-0.752	-0.752	-0.841	-0.940	-1.040	-1.140	-1.156	-1.156	-1.156
			Vz	-33.216	-32.652	-32.087	-31.523	-30.959	-30.395	-29.831	-29.267	-28.702
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	38.16	44.86	51.44	57.91	64.26	70.50	76.63	82.64	88.53
			Mz	-2.12	-1.97	-1.81	-1.63	-1.43	-1.21	-0.97	-0.74	-0.50
		PP+CM+1.05·Q+0.9·V+1.5·N	N	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686
			Vy	-0.666	-0.666	-0.755	-0.855	-0.954	-1.054	-1.070	-1.070	-1.070
			Vz	-80.250	-78.606	-76.963	-75.319	-73.675	-72.031	-70.387	-68.744	-67.100
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	90.40	106.56	122.38	137.86	153.01	167.83	182.31	196.46	210.27
			Mz	-2.11	-1.97	-1.83	-1.67	-1.48	-1.28	-1.06	-0.84	-0.62
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
			Vy	-0.644	-0.644	-0.733	-0.832	-0.932	-1.031	-1.047	-1.047	-1.047
			Vz	-83.890	-82.174	-80.458	-78.742	-77.026	-75.310	-73.594	-71.879	-70.163
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	94.50	111.39	127.93	144.12	159.95	175.45	190.59	205.38	219.82
			Mz	-2.10	-1.97	-1.83	-1.67	-1.49	-1.29	-1.08	-0.87	-0.66
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686
			Vy	-0.664	-0.664	-0.753	-0.853	-0.952	-1.052	-1.068	-1.068	-1.068
			Vz	-81.254	-79.587	-77.921	-76.254	-74.588	-72.921	-71.254	-69.588	-67.921
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	91.52	107.87	123.89	139.57	154.91	169.91	184.57	198.89	212.87
			Mz	-2.11	-1.97	-1.83	-1.67	-1.48	-1.28	-1.06	-0.84	-0.63
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
			Vy	-0.642	-0.642	-0.730	-0.830	-0.930	-1.029	-1.045	-1.045	-1.045
			Vz	-84.893	-83.155	-81.416	-79.677	-77.939	-76.200	-74.461	-72.723	-70.984
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	95.62	112.70	129.44	145.82	161.85	177.52	192.84	207.81	222.42
			Mz	-2.10	-1.97	-1.83	-1.67	-1.49	-1.30	-1.08	-0.87	-0.66
		PP+CM+1.5·Q+0.75·N	N	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246
			Vy	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
			Vz	-94.745	-92.697	-90.649	-88.601	-86.553	-84.505	-82.457	-80.409	-78.361
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	105.97	125.03	143.67	161.90	179.71	197.11	214.08	230.64	246.79
			Mz	0.09	0.02	-0.06	-0.13	-0.20	-0.28	-0.35	-0.42	-0.49
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262
			Vy	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379
			Vz	-98.384	-96.264	-94.144	-92.024	-89.904	-87.784	-85.664	-83.544	-81.424
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	110.07	129.86	149.22	168.15	186.65	204.72	222.36	239.57	256.34
			Mz	0.09	0.02	-0.06	-0.14	-0.22	-0.29	-0.37	-0.45	-0.52

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246
			Vy	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
			Vz	-95.748	-93.678	-91.607	-89.536	-87.465	-85.394	-83.324	-81.253	-79.182
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	107.08	126.34	145.19	163.61	181.60	199.18	216.34	233.07	249.39
			Mz	0.09	0.02	-0.06	-0.13	-0.21	-0.28	-0.35	-0.42	-0.50
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262	-0.262
			Vy	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381
			Vz	-99.388	-97.245	-95.102	-92.959	-90.816	-88.674	-86.531	-84.388	-82.245
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	111.18	131.18	150.74	169.86	188.55	206.80	224.62	242.00	258.94
			Mz	0.09	0.02	-0.06	-0.14	-0.22	-0.30	-0.37	-0.45	-0.53
		PP+CM+1.5·V+0.75·N	N	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180
			Vy	-1.641	-1.641	-1.789	-1.955	-2.121	-2.287	-2.314	-2.314	-2.314
			Vz	-20.919	-20.549	-20.179	-19.809	-19.439	-19.069	-18.698	-18.328	-17.958
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	24.00	28.22	32.36	36.42	40.42	44.33	48.17	51.94	55.63
			Mz	-3.65	-3.31	-2.97	-2.59	-2.17	-1.72	-1.25	-0.78	-0.31
		1.35·PP+CM+1.5·V+0.75·N	N	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164
			Vy	-1.619	-1.619	-1.767	-1.933	-2.099	-2.265	-2.292	-2.292	-2.292
			Vz	-24.559	-24.117	-23.675	-23.232	-22.790	-22.348	-21.906	-21.463	-21.021
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	28.10	33.05	37.91	42.68	47.36	51.95	56.45	60.86	65.18
			Mz	-3.64	-3.31	-2.97	-2.59	-2.18	-1.74	-1.28	-0.81	-0.34
		PP+1.35·CM+1.5·V+0.75·N	N	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180	3.180
			Vy	-1.639	-1.639	-1.787	-1.953	-2.119	-2.285	-2.312	-2.312	-2.312
			Vz	-21.923	-21.530	-21.137	-20.744	-20.351	-19.958	-19.566	-19.173	-18.780
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	25.11	29.53	33.87	38.13	42.31	46.41	50.43	54.37	58.23
			Mz	-3.65	-3.31	-2.97	-2.59	-2.17	-1.73	-1.26	-0.79	-0.32
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164
			Vy	-1.617	-1.617	-1.765	-1.931	-2.097	-2.263	-2.290	-2.290	-2.290
			Vz	-25.563	-25.098	-24.633	-24.168	-23.703	-23.238	-22.773	-22.308	-21.843
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	29.21	34.36	39.42	44.38	49.25	54.03	58.70	63.29	67.78
			Mz	-3.64	-3.31	-2.97	-2.60	-2.19	-1.74	-1.28	-0.81	-0.35
		PP+CM+1.05·Q+1.5·V+0.75·N	N	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104
			Vy	-1.531	-1.531	-1.679	-1.845	-2.011	-2.177	-2.204	-2.204	-2.204
			Vz	-72.597	-71.052	-69.508	-67.963	-66.418	-64.874	-63.329	-61.785	-60.240
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	81.45	96.06	110.35	124.33	138.00	151.35	164.39	177.11	189.52
			Mz	-3.63	-3.31	-2.99	-2.63	-2.24	-1.81	-1.37	-0.92	-0.47
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	3.088	3.088	3.088	3.088	3.088	3.088	3.088	3.088	3.088
			Vy	-1.508	-1.508	-1.656	-1.822	-1.988	-2.154	-2.181	-2.181	-2.181
			Vz	-76.237	-74.620	-73.003	-71.386	-69.770	-68.153	-66.536	-64.919	-63.303
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	85.55	100.89	115.91	130.59	144.94	158.97	172.66	186.03	199.07
			Mz	-3.62	-3.31	-2.99	-2.64	-2.25	-1.83	-1.39	-0.94	-0.50
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104
			Vy	-1.529	-1.529	-1.677	-1.843	-2.009	-2.175	-2.202	-2.202	-2.202
			Vz	-73.601	-72.033	-70.466	-68.899	-67.331	-65.764	-64.196	-62.629	-61.061
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	82.57	97.38	111.87	126.04	139.89	153.43	166.64	179.54	192.12
			Mz	-3.63	-3.31	-2.99	-2.63	-2.24	-1.82	-1.37	-0.92	-0.47
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.088	3.088	3.088	3.088	3.088	3.088	3.088	3.088	3.088
			Vy	-1.506	-1.506	-1.654	-1.820	-1.986	-2.152	-2.179	-2.179	-2.179
			Vz	-77.240	-75.601	-73.961	-72.322	-70.682	-69.043	-67.403	-65.764	-64.122

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	86.67	102.21	117.42	132.29	146.84	161.04	174.92	188.46	201.67
			Mz	-3.62	-3.31	-2.99	-2.64	-2.25	-1.83	-1.39	-0.95	-0.50
		PP+CM+1.5·Q+0.9·V+0.75·N	N	1.744	1.744	1.744	1.744	1.744	1.744	1.744	1.744	1.744
			Vy	-0.747	-0.747	-0.836	-0.936	-1.036	-1.135	-1.151	-1.151	-1.151
			Vz	-94.745	-92.697	-90.649	-88.601	-86.553	-84.505	-82.457	-80.409	-78.361
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	106.03	125.09	143.74	161.97	179.78	197.17	214.15	230.71	246.86
			Mz	-2.14	-1.98	-1.82	-1.64	-1.44	-1.22	-0.99	-0.75	-0.52
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729
			Vy	-0.725	-0.725	-0.814	-0.913	-1.013	-1.113	-1.129	-1.129	-1.129
			Vz	-98.384	-96.264	-94.144	-92.024	-89.904	-87.784	-85.664	-83.544	-81.424
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	110.13	129.93	149.29	168.22	186.72	204.79	222.43	239.63	256.41
			Mz	-2.13	-1.98	-1.83	-1.65	-1.46	-1.24	-1.01	-0.78	-0.55
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.744	1.744	1.744	1.744	1.744	1.744	1.744	1.744	1.744
			Vy	-0.745	-0.745	-0.834	-0.934	-1.034	-1.133	-1.149	-1.149	-1.149
			Vz	-95.748	-93.678	-91.607	-89.536	-87.465	-85.394	-83.324	-81.253	-79.182
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	107.15	126.41	145.25	163.67	181.67	199.25	216.41	233.14	249.45
			Mz	-2.14	-1.98	-1.82	-1.64	-1.44	-1.22	-0.99	-0.76	-0.52
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729
			Vy	-0.723	-0.723	-0.812	-0.911	-1.011	-1.111	-1.127	-1.127	-1.127
			Vz	-99.388	-97.245	-95.102	-92.959	-90.816	-88.674	-86.531	-84.388	-82.245
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	111.25	131.24	150.80	169.93	188.61	206.87	224.68	242.06	259.01
			Mz	-2.13	-1.98	-1.83	-1.65	-1.46	-1.24	-1.01	-0.78	-0.55

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N8/N10	Madera	PP+CM	N	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
			Vy	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
			Vz	-10.832	-10.561	-10.290	-10.019	-9.748	-9.477	-9.206	-8.935	-8.664
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	34.72	36.90	39.02	41.08	43.09	45.05	46.95	48.79	50.58
			Mz	-0.10	-0.07	-0.04	-0.02	0.01	0.04	0.07	0.09	0.12
		1.35-PP+CM	N	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
			Vy	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
			Vz	-13.801	-13.458	-13.115	-12.772	-12.429	-12.086	-11.743	-11.400	-11.056
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	44.27	47.05	49.75	52.38	54.94	57.44	59.86	62.21	64.49
			Mz	-0.13	-0.09	-0.06	-0.02	0.01	0.05	0.09	0.12	0.16
		PP+1.35-CM	N	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
			Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
			Vz	-11.654	-11.360	-11.066	-10.772	-10.478	-10.185	-9.891	-9.597	-9.303
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	37.32	39.66	41.94	44.16	46.32	48.42	50.46	52.45	54.37
			Mz	-0.10	-0.07	-0.04	-0.02	0.01	0.04	0.07	0.10	0.12
		1.35-PP+1.35-CM	N	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
			Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vz	-14.623	-14.257	-13.891	-13.525	-13.159	-12.794	-12.428	-12.062	-11.696
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	46.87	49.81	52.67	55.46	58.17	60.81	63.38	65.87	68.28
			Mz	-0.13	-0.09	-0.06	-0.02	0.02	0.05	0.09	0.13	0.16
		PP+CM+1.5-Q	N	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479
			Vz	-71.237	-69.288	-67.339	-65.390	-63.441	-61.492	-59.544	-57.595	-55.646
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	226.01	240.30	254.19	267.69	280.79	293.49	305.80	317.71	329.22
			Mz	-0.32	-0.23	-0.13	-0.03	0.06	0.16	0.26	0.36	0.45
		1.35-PP+CM+1.5-Q	N	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
			Vy	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521
			Vz	-74.206	-72.185	-70.164	-68.143	-66.122	-64.101	-62.081	-60.060	-58.039
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	235.56	250.44	264.92	278.98	292.64	305.88	318.71	331.13	343.14
			Mz	-0.36	-0.25	-0.14	-0.04	0.07	0.17	0.28	0.39	0.49
		PP+1.35-CM+1.5-Q	N	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
			Vy	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484
			Vz	-72.058	-70.087	-68.115	-66.144	-64.172	-62.200	-60.229	-58.257	-56.285
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	228.61	243.06	257.11	270.77	284.02	296.87	309.32	321.37	333.01
			Mz	-0.33	-0.23	-0.13	-0.03	0.07	0.16	0.26	0.36	0.46
		1.35-PP+1.35-CM+1.5-Q	N	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073
			Vy	-0.525	-0.525	-0.525	-0.525	-0.525	-0.525	-0.525	-0.525	-0.525
			Vz	-75.028	-72.984	-70.940	-68.897	-66.853	-64.809	-62.766	-60.722	-58.678
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	238.16	253.21	267.84	282.06	295.87	309.26	322.23	334.79	346.93
			Mz	-0.36	-0.25	-0.15	-0.04	0.07	0.18	0.28	0.39	0.50
		PP+CM+1.5-V	N	7.832	7.832	7.832	7.832	7.832	7.832	7.832	7.832	7.832
			Vy	0.328	0.328	0.180	0.014	-0.152	-0.318	-0.345	-0.345	-0.345
			Vz	-10.832	-10.561	-10.290	-10.019	-9.748	-9.477	-9.206	-8.935	-8.664
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	34.67	36.85	38.97	41.03	43.04	45.00	46.90	48.74	50.53
			Mz	-0.06	-0.12	-0.18	-0.20	-0.18	-0.13	-0.06	0.01	0.08
		1.35-PP+CM+1.5-V	N	7.822	7.822	7.822	7.822	7.822	7.822	7.822	7.822	7.822
			Vy	0.286	0.286	0.138	-0.028	-0.194	-0.360	-0.387	-0.387	-0.387
			Vz	-13.801	-13.458	-13.115	-12.772	-12.429	-12.086	-11.743	-11.400	-11.056
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	44.22	47.00	49.70	52.33	54.89	57.39	59.81	62.16	64.45
			Mz	-0.09	-0.15	-0.19	-0.20	-0.18	-0.12	-0.04	0.03	0.11
		PP+1.35-CM+1.5-V	N	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830
			Vy	0.323	0.323	0.175	0.009	-0.157	-0.323	-0.350	-0.350	-0.350
			Vz	-11.654	-11.360	-11.066	-10.772	-10.478	-10.185	-9.891	-9.597	-9.303
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	37.27	39.61	41.89	44.11	46.27	48.38	50.42	52.40	54.32
			Mz	-0.06	-0.13	-0.18	-0.20	-0.18	-0.13	-0.06	0.01	0.08
		1.35-PP+1.35-CM+1.5-V	N	7.820	7.820	7.820	7.820	7.820	7.820	7.820	7.820	7.820
			Vy	0.281	0.281	0.133	-0.033	-0.199	-0.365	-0.392	-0.392	-0.392
			Vz	-14.623	-14.257	-13.891	-13.525	-13.159	-12.794	-12.428	-12.062	-11.696
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	46.82	49.76	52.62	55.41	58.13	60.76	63.33	65.82	68.24
			Mz	-0.09	-0.15	-0.19	-0.20	-0.18	-0.12	-0.04	0.04	0.12
		PP+CM+1.05-Q+1.5-V	N	7.812	7.812	7.812	7.812	7.812	7.812	7.812	7.812	7.812
			Vy	0.086	0.086	-0.062	-0.228	-0.394	-0.560	-0.587	-0.587	-0.587
			Vz	-53.115	-51.670	-50.224	-48.779	-47.333	-45.888	-44.442	-42.997	-41.551
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	168.57	179.23	189.59	199.66	209.43	218.91	228.10	236.99	245.58
			Mz	-0.22	-0.23	-0.24	-0.21	-0.14	-0.05	0.07	0.19	0.31
		1.35-PP+CM+1.05-Q+1.5-V	N	7.802	7.802	7.802	7.802	7.802	7.802	7.802	7.802	7.802
			Vy	0.044	0.044	-0.104	-0.270	-0.436	-0.602	-0.629	-0.629	-0.629
			Vz	-56.085	-54.567	-53.050	-51.532	-50.014	-48.497	-46.979	-45.462	-43.944
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	178.12	189.38	200.32	210.95	221.28	231.30	241.01	250.41	259.50
			Mz	-0.25	-0.26	-0.25	-0.21	-0.14	-0.04	0.09	0.22	0.35
		PP+1.35·CM+1.05·Q+1.5·V	N	7.811	7.811	7.811	7.811	7.811	7.811	7.811	7.811	7.811
			Vy	0.081	0.081	-0.067	-0.233	-0.399	-0.565	-0.592	-0.592	-0.592
			Vz	-53.937	-52.469	-51.000	-49.532	-48.064	-46.596	-45.127	-43.659	-42.191
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	171.17	181.99	192.51	202.74	212.66	222.29	231.61	240.64	249.37
			Mz	-0.22	-0.24	-0.24	-0.21	-0.14	-0.05	0.07	0.19	0.31
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	7.801	7.801	7.801	7.801	7.801	7.801	7.801	7.801	7.801
			Vy	0.039	0.039	-0.109	-0.275	-0.441	-0.607	-0.634	-0.634	-0.634
			Vz	-56.906	-55.366	-53.826	-52.285	-50.745	-49.205	-47.664	-46.124	-44.583
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	180.72	192.14	203.24	214.03	224.51	234.68	244.53	254.06	263.29
			Mz	-0.25	-0.26	-0.25	-0.21	-0.14	-0.03	0.09	0.22	0.35
		PP+CM+1.5·Q+0.9·V	N	4.658	4.658	4.658	4.658	4.658	4.658	4.658	4.658	4.658
			Vy	-0.202	-0.202	-0.291	-0.391	-0.490	-0.590	-0.606	-0.606	-0.606
			Vz	-71.237	-69.288	-67.339	-65.390	-63.441	-61.492	-59.544	-57.595	-55.646
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	225.98	240.27	254.16	267.66	280.76	293.46	305.77	317.68	329.20
			Mz	-0.30	-0.26	-0.21	-0.14	-0.05	0.06	0.18	0.30	0.43
		1.35·PP+CM+1.5·Q+0.9·V	N	4.648	4.648	4.648	4.648	4.648	4.648	4.648	4.648	4.648
			Vy	-0.244	-0.244	-0.333	-0.433	-0.532	-0.632	-0.648	-0.648	-0.648
			Vz	-74.206	-72.185	-70.164	-68.143	-66.122	-64.101	-62.081	-60.060	-58.039
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	235.53	250.42	264.89	278.96	292.61	305.85	318.68	331.10	343.11
			Mz	-0.33	-0.28	-0.22	-0.15	-0.05	0.07	0.20	0.33	0.47
		PP+1.35·CM+1.5·Q+0.9·V	N	4.656	4.656	4.656	4.656	4.656	4.656	4.656	4.656	4.656
			Vy	-0.207	-0.207	-0.296	-0.395	-0.495	-0.594	-0.611	-0.611	-0.611
			Vz	-72.058	-70.087	-68.115	-66.144	-64.172	-62.200	-60.229	-58.257	-56.285
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	228.58	243.03	257.08	270.74	283.99	296.84	309.29	321.34	332.98
			Mz	-0.30	-0.26	-0.21	-0.14	-0.05	0.06	0.18	0.31	0.43
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	4.646	4.646	4.646	4.646	4.646	4.646	4.646	4.646	4.646
			Vy	-0.249	-0.249	-0.338	-0.437	-0.537	-0.636	-0.653	-0.653	-0.653
			Vz	-75.028	-72.984	-70.940	-68.897	-66.853	-64.809	-62.766	-60.722	-58.678
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	238.13	253.18	267.82	282.04	295.84	309.23	322.20	334.76	346.90
			Mz	-0.33	-0.28	-0.23	-0.15	-0.05	0.07	0.20	0.34	0.47
		PP+CM+1.5·N	N	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vy	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572
			Vz	-23.236	-22.767	-22.297	-21.828	-21.359	-20.889	-20.420	-19.951	-19.481
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	76.32	81.00	85.58	90.07	94.46	98.75	102.95	107.06	111.07
			Mz	-0.44	-0.32	-0.21	-0.09	0.02	0.14	0.26	0.37	0.49
		1.35·PP+CM+1.5·N	N	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190
			Vy	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614
			Vz	-26.205	-25.664	-25.123	-24.581	-24.040	-23.498	-22.957	-22.416	-21.874
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	85.87	91.15	96.31	101.36	106.31	111.14	115.87	120.48	124.98
			Mz	-0.47	-0.35	-0.22	-0.10	0.03	0.15	0.28	0.40	0.53
		PP+1.35·CM+1.5·N	N	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181
			Vy	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577
			Vz	-24.058	-23.566	-23.073	-22.581	-22.089	-21.597	-21.105	-20.613	-20.121
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	78.92	83.76	88.50	93.15	97.69	102.13	106.47	110.72	114.86
			Mz	-0.44	-0.33	-0.21	-0.09	0.03	0.14	0.26	0.38	0.49
		1.35·PP+1.35·CM+1.5·N	N	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619
			Vz	-27.027	-26.463	-25.899	-25.335	-24.770	-24.206	-23.642	-23.078	-22.514
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	88.47	93.91	99.23	104.44	109.54	114.52	119.39	124.14	128.77
			Mz	-0.48	-0.35	-0.22	-0.10	0.03	0.15	0.28	0.41	0.53
		PP+CM+1.05·Q+1.5·N	N	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
			Vy	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814
			Vz	-65.519	-63.876	-62.232	-60.588	-58.944	-57.300	-55.657	-54.013	-52.369
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	210.22	223.38	236.20	248.69	260.84	272.66	284.15	295.30	306.12
			Mz	-0.60	-0.43	-0.27	-0.10	0.06	0.23	0.39	0.56	0.72
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209
			Vy	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856
			Vz	-68.489	-66.773	-65.057	-63.341	-61.625	-59.909	-58.193	-56.478	-54.762
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	219.77	233.53	246.93	259.99	272.70	285.05	297.06	308.72	320.04
			Mz	-0.63	-0.46	-0.28	-0.11	0.07	0.24	0.41	0.59	0.76
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201
			Vy	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819
			Vz	-66.341	-64.674	-63.008	-61.341	-59.675	-58.008	-56.342	-54.675	-53.008
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	212.82	226.14	239.12	251.77	264.07	276.04	287.67	298.96	309.91
			Mz	-0.60	-0.44	-0.27	-0.10	0.06	0.23	0.40	0.56	0.73
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211
			Vy	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861
			Vz	-69.311	-67.572	-65.833	-64.095	-62.356	-60.617	-58.879	-57.140	-55.401
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	222.37	236.29	249.86	263.07	275.93	288.43	300.58	312.38	323.82
			Mz	-0.63	-0.46	-0.28	-0.11	0.07	0.24	0.42	0.59	0.77
		PP+CM+0.9·V+1.5·N	N	4.540	4.540	4.540	4.540	4.540	4.540	4.540	4.540	4.540
			Vy	-0.295	-0.295	-0.384	-0.484	-0.584	-0.683	-0.699	-0.699	-0.699
			Vz	-23.236	-22.767	-22.297	-21.828	-21.359	-20.889	-20.420	-19.951	-19.481
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	76.29	80.97	85.55	90.04	94.43	98.73	102.93	107.03	111.04
			Mz	-0.42	-0.36	-0.29	-0.20	-0.09	0.04	0.18	0.32	0.46
		1.35·PP+CM+0.9·V+1.5·N	N	4.530	4.530	4.530	4.530	4.530	4.530	4.530	4.530	4.530
			Vy	-0.337	-0.337	-0.426	-0.526	-0.626	-0.725	-0.741	-0.741	-0.741
			Vz	-26.205	-25.664	-25.123	-24.581	-24.040	-23.498	-22.957	-22.416	-21.874
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	85.84	91.12	96.28	101.34	106.28	111.11	115.84	120.45	124.96
			Mz	-0.45	-0.38	-0.30	-0.21	-0.09	0.05	0.20	0.35	0.50
		PP+1.35·CM+0.9·V+1.5·N	N	4.538	4.538	4.538	4.538	4.538	4.538	4.538	4.538	4.538
			Vy	-0.300	-0.300	-0.389	-0.489	-0.588	-0.688	-0.704	-0.704	-0.704
			Vz	-24.058	-23.566	-23.073	-22.581	-22.089	-21.597	-21.105	-20.613	-20.121
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	78.89	83.73	88.47	93.12	97.66	102.10	106.44	110.69	114.83
			Mz	-0.42	-0.36	-0.29	-0.20	-0.09	0.04	0.18	0.32	0.47
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	4.528	4.528	4.528	4.528	4.528	4.528	4.528	4.528	4.528
			Vy	-0.342	-0.342	-0.431	-0.531	-0.630	-0.730	-0.746	-0.746	-0.746
			Vz	-27.027	-26.463	-25.899	-25.335	-24.770	-24.206	-23.642	-23.078	-22.514
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	88.44	93.88	99.21	104.42	109.51	114.49	119.36	124.11	128.74
			Mz	-0.45	-0.38	-0.30	-0.21	-0.09	0.05	0.20	0.35	0.51
		PP+CM+1.05·Q+0.9·V+1.5·N	N	4.520	4.520	4.520	4.520	4.520	4.520	4.520	4.520	4.520
			Vy	-0.537	-0.537	-0.626	-0.726	-0.825	-0.925	-0.941	-0.941	-0.941
			Vz	-65.519	-63.876	-62.232	-60.588	-58.944	-57.300	-55.657	-54.013	-52.369
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	210.19	223.35	236.17	248.66	260.82	272.64	284.12	295.27	306.09
			Mz	-0.58	-0.47	-0.35	-0.21	-0.05	0.12	0.31	0.51	0.70
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	4.510	4.510	4.510	4.510	4.510	4.510	4.510	4.510	4.510
			Vy	-0.579	-0.579	-0.668	-0.768	-0.867	-0.967	-0.983	-0.983	-0.983
			Vz	-68.489	-66.773	-65.057	-63.341	-61.625	-59.909	-58.193	-56.478	-54.762
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	219.74	233.50	246.90	259.96	272.67	285.03	297.03	308.70	320.01
			Mz	-0.61	-0.49	-0.36	-0.22	-0.05	0.14	0.34	0.54	0.74
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	4.519	4.519	4.519	4.519	4.519	4.519	4.519	4.519	4.519
			Vy	-0.542	-0.542	-0.631	-0.731	-0.830	-0.930	-0.946	-0.946	-0.946
			Vz	-66.341	-64.674	-63.008	-61.341	-59.675	-58.008	-56.342	-54.675	-53.008
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	212.79	226.11	239.10	251.74	264.05	276.01	287.64	298.93	309.88
			Mz	-0.58	-0.47	-0.35	-0.21	-0.05	0.13	0.32	0.51	0.70
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	4.509	4.509	4.509	4.509	4.509	4.509	4.509	4.509	4.509
			Vy	-0.584	-0.584	-0.673	-0.773	-0.872	-0.972	-0.988	-0.988	-0.988
			Vz	-69.311	-67.572	-65.833	-64.095	-62.356	-60.617	-58.879	-57.140	-55.401
			Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
			My	222.34	236.26	249.83	263.04	275.90	288.40	300.55	312.35	323.80
			Mz	-0.61	-0.49	-0.36	-0.22	-0.05	0.14	0.34	0.54	0.74
		PP+CM+1.5·Q+0.75·N	N	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
			Vy	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698
			Vz	-77.439	-75.391	-73.343	-71.295	-69.247	-67.199	-65.151	-63.103	-61.055
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	246.80	262.35	277.47	292.18	306.47	320.34	333.80	346.84	359.47
			Mz	-0.50	-0.35	-0.21	-0.07	0.07	0.21	0.36	0.50	0.64
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
			Vy	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740
			Vz	-80.408	-78.288	-76.168	-74.048	-71.928	-69.808	-67.688	-65.568	-63.448
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	256.36	272.49	288.20	303.48	318.32	332.73	346.71	360.26	373.38
			Mz	-0.53	-0.38	-0.23	-0.08	0.07	0.23	0.38	0.53	0.68
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136
			Vy	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703
			Vz	-78.261	-76.190	-74.119	-72.048	-69.977	-67.907	-65.836	-63.765	-61.694
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	249.40	265.11	280.39	295.26	309.70	323.72	337.32	350.50	363.26
			Mz	-0.50	-0.36	-0.21	-0.07	0.07	0.22	0.36	0.50	0.64
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146
			Vy	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
			Vz	-81.230	-79.087	-76.944	-74.801	-72.658	-70.516	-68.373	-66.230	-64.087
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	258.96	275.26	291.13	306.56	321.55	336.11	350.23	363.92	377.17
			Mz	-0.53	-0.38	-0.23	-0.08	0.08	0.23	0.38	0.53	0.68
		PP+CM+1.5·V+0.75·N	N	7.759	7.759	7.759	7.759	7.759	7.759	7.759	7.759	7.759
			Vy	0.108	0.108	-0.040	-0.206	-0.372	-0.538	-0.565	-0.565	-0.565
			Vz	-17.034	-16.664	-16.294	-15.923	-15.553	-15.183	-14.813	-14.443	-14.073
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	55.47	58.90	62.25	65.53	68.73	71.85	74.90	77.88	80.78
			Mz	-0.23	-0.25	-0.26	-0.23	-0.18	-0.08	0.03	0.15	0.26
		1.35·PP+CM+1.5·V+0.75·N	N	7.749	7.749	7.749	7.749	7.749	7.749	7.749	7.749	7.749
			Vy	0.066	0.066	-0.082	-0.248	-0.414	-0.580	-0.607	-0.607	-0.607
			Vz	-20.003	-19.561	-19.119	-18.677	-18.234	-17.792	-17.350	-16.908	-16.465
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	65.02	69.05	72.98	76.82	80.58	84.24	87.82	91.30	94.69
			Mz	-0.26	-0.27	-0.27	-0.24	-0.17	-0.07	0.05	0.17	0.30
		PP+1.35·CM+1.5·V+0.75·N	N	7.757	7.757	7.757	7.757	7.757	7.757	7.757	7.757	7.757

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.104	0.104	-0.045	-0.211	-0.376	-0.542	-0.569	-0.569	-0.569
			Vz	-17.856	-17.463	-17.070	-16.677	-16.284	-15.891	-15.498	-15.105	-14.712
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	58.07	61.66	65.17	68.61	71.96	75.23	78.42	81.53	84.57
			Mz	-0.23	-0.25	-0.26	-0.23	-0.17	-0.08	0.03	0.15	0.27
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	7.747	7.747	7.747	7.747	7.747	7.747	7.747	7.747	7.747
			Vy	0.062	0.062	-0.087	-0.253	-0.418	-0.584	-0.611	-0.611	-0.611
			Vz	-20.825	-20.360	-19.895	-19.430	-18.965	-18.500	-18.035	-17.570	-17.105
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	67.62	71.81	75.91	79.90	83.81	87.62	91.33	94.95	98.48
			Mz	-0.26	-0.28	-0.27	-0.24	-0.17	-0.07	0.05	0.18	0.30
		PP+CM+1.05·Q+1.5·V+0.75·N	N	7.739	7.739	7.739	7.739	7.739	7.739	7.739	7.739	7.739
			Vy	-0.133	-0.133	-0.282	-0.448	-0.614	-0.780	-0.807	-0.807	-0.807
			Vz	-59.317	-57.773	-56.228	-54.683	-53.139	-51.594	-50.049	-48.505	-46.960
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	189.37	201.28	212.87	224.15	235.11	245.76	256.10	266.12	275.83
			Mz	-0.39	-0.36	-0.32	-0.25	-0.14	0.00	0.17	0.33	0.50
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	7.729	7.729	7.729	7.729	7.729	7.729	7.729	7.729	7.729
			Vy	-0.175	-0.175	-0.324	-0.490	-0.656	-0.821	-0.848	-0.848	-0.848
			Vz	-62.287	-60.670	-59.053	-57.437	-55.820	-54.203	-52.586	-50.970	-49.353
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	198.92	211.43	223.60	235.45	246.96	258.15	269.01	279.54	289.74
			Mz	-0.42	-0.38	-0.33	-0.25	-0.14	0.02	0.19	0.36	0.53
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	7.738	7.738	7.738	7.738	7.738	7.738	7.738	7.738	7.738
			Vy	-0.138	-0.138	-0.286	-0.452	-0.618	-0.784	-0.811	-0.811	-0.811
			Vz	-60.139	-58.572	-57.004	-55.437	-53.869	-52.302	-50.734	-49.167	-47.600
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	191.97	204.04	215.79	227.23	238.34	249.14	259.62	269.78	279.62
			Mz	-0.39	-0.36	-0.32	-0.25	-0.14	0.01	0.17	0.33	0.50
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	7.728	7.728	7.728	7.728	7.728	7.728	7.728	7.728	7.728
			Vy	-0.180	-0.180	-0.328	-0.494	-0.660	-0.826	-0.853	-0.853	-0.853
			Vz	-63.108	-61.469	-59.829	-58.190	-56.550	-54.911	-53.271	-51.632	-49.992
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	201.52	214.19	226.53	238.53	250.20	261.53	272.53	283.20	293.53
			Mz	-0.42	-0.39	-0.34	-0.25	-0.13	0.02	0.19	0.36	0.54
		PP+CM+1.5·Q+0.9·V+0.75·N	N	4.585	4.585	4.585	4.585	4.585	4.585	4.585	4.585	4.585
			Vy	-0.421	-0.421	-0.510	-0.610	-0.710	-0.809	-0.825	-0.825	-0.825
			Vz	-77.439	-75.391	-73.343	-71.295	-69.247	-67.199	-65.151	-63.103	-61.055
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	246.78	262.32	277.44	292.15	306.44	320.32	333.77	346.82	359.44
			Mz	-0.47	-0.39	-0.29	-0.18	-0.04	0.11	0.28	0.45	0.61
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	4.575	4.575	4.575	4.575	4.575	4.575	4.575	4.575	4.575
			Vy	-0.463	-0.463	-0.552	-0.652	-0.752	-0.851	-0.867	-0.867	-0.867
			Vz	-80.408	-78.288	-76.168	-74.048	-71.928	-69.808	-67.688	-65.568	-63.448
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	256.33	272.47	288.17	303.45	318.29	332.70	346.69	360.24	373.36
			Mz	-0.50	-0.41	-0.31	-0.18	-0.04	0.12	0.30	0.47	0.65
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	4.583	4.583	4.583	4.583	4.583	4.583	4.583	4.583	4.583
			Vy	-0.426	-0.426	-0.515	-0.615	-0.714	-0.814	-0.830	-0.830	-0.830
			Vz	-78.261	-76.190	-74.119	-72.048	-69.977	-67.907	-65.836	-63.765	-61.694
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	249.38	265.08	280.37	295.23	309.67	323.69	337.29	350.47	363.23
			Mz	-0.48	-0.39	-0.29	-0.18	-0.04	0.11	0.28	0.45	0.62
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	4.573	4.573	4.573	4.573	4.573	4.573	4.573	4.573	4.573
			Vy	-0.468	-0.468	-0.557	-0.657	-0.756	-0.856	-0.872	-0.872	-0.872
			Vz	-81.230	-79.087	-76.944	-74.801	-72.658	-70.516	-68.373	-66.230	-64.087
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	258.93	275.23	291.10	306.53	321.52	336.08	350.21	363.89	377.14
			Mz	-0.51	-0.41	-0.31	-0.18	-0.04	0.12	0.30	0.48	0.65

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N10/N12	Madera	PP+CM	N	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
			Vy	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
			Vz	-8.396	-8.125	-7.854	-7.583	-7.312	-7.041	-6.770	-6.499	-6.228
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	50.58	52.26	53.89	55.46	56.97	58.43	59.83	61.18	62.48
			Mz	0.12	0.09	0.06	0.02	-0.01	-0.04	-0.07	-0.10	-0.13
		1.35-PP+CM	N	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077
			Vy	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
			Vz	-10.695	-10.352	-10.009	-9.666	-9.323	-8.980	-8.637	-8.294	-7.950
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	64.50	66.64	68.71	70.71	72.64	74.50	76.29	78.01	79.67
			Mz	0.16	0.12	0.07	0.03	-0.01	-0.05	-0.09	-0.13	-0.18
		PP+1.35-CM	N	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
			Vy	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
			Vz	-9.035	-8.741	-8.448	-8.154	-7.860	-7.566	-7.272	-6.979	-6.685
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	54.37	56.18	57.93	59.61	61.24	62.81	64.32	65.77	67.16
			Mz	0.12	0.09	0.06	0.03	-0.01	-0.04	-0.07	-0.11	-0.14
		1.35-PP+1.35-CM	N	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078
			Vy	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
			Vz	-11.335	-10.969	-10.603	-10.237	-9.871	-9.505	-9.139	-8.773	-8.408
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	68.29	70.55	72.75	74.87	76.91	78.88	80.78	82.60	84.35
			Mz	0.16	0.12	0.08	0.03	-0.01	-0.05	-0.10	-0.14	-0.18
		PP+CM+1.5-Q	N	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186
			Vy	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616
			Vz	-55.381	-53.432	-51.483	-49.534	-47.585	-45.636	-43.687	-41.739	-39.790
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	329.23	340.30	350.97	361.24	371.12	380.60	389.68	398.36	406.66
			Mz	0.45	0.33	0.20	0.08	-0.05	-0.17	-0.30	-0.42	-0.55
		1.35-PP+CM+1.5-Q	N	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206
			Vy	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
			Vz	-57.680	-55.659	-53.638	-51.617	-49.596	-47.575	-45.554	-43.533	-41.512
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	343.15	354.67	365.79	376.49	386.78	396.66	406.14	415.19	423.84
			Mz	0.49	0.36	0.22	0.09	-0.05	-0.18	-0.32	-0.45	-0.59
		PP+1.35-CM+1.5-Q	N	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187
			Vy	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
			Vz	-56.020	-54.048	-52.077	-50.105	-48.133	-46.162	-44.190	-42.218	-40.247
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	333.02	344.22	355.01	365.40	375.39	384.98	394.16	402.95	411.34
			Mz	0.46	0.33	0.21	0.08	-0.05	-0.17	-0.30	-0.43	-0.55
		1.35-PP+1.35-CM+1.5-Q	N	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206
			Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
			Vz	-58.319	-56.275	-54.232	-52.188	-50.144	-48.101	-46.057	-44.013	-41.969
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	346.94	358.59	369.83	380.65	391.06	401.05	410.62	419.78	428.52
			Mz	0.50	0.36	0.22	0.09	-0.05	-0.19	-0.32	-0.46	-0.59
		PP+CM+1.5-V	N	10.126	10.126	10.126	10.126	10.126	10.126	10.126	10.126	10.126
			Vy	0.613	0.613	0.465	0.299	0.133	-0.033	-0.060	-0.060	-0.060

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-8.396	-8.125	-7.854	-7.583	-7.312	-7.041	-6.770	-6.499	-6.228
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	50.61	52.29	53.92	55.49	57.00	58.46	59.87	61.22	62.51
			Mz	0.13	0.00	-0.11	-0.19	-0.23	-0.24	-0.23	-0.22	-0.20
		1.35·PP+CM+1.5·V	N	10.106	10.106	10.106	10.106	10.106	10.106	10.106	10.106	10.106
			Vy	0.661	0.661	0.513	0.347	0.181	0.015	-0.012	-0.012	-0.012
			Vz	-10.695	-10.352	-10.009	-9.666	-9.323	-8.980	-8.637	-8.294	-7.950
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	64.53	66.67	68.74	70.74	72.67	74.53	76.32	78.05	79.70
			Mz	0.16	0.03	-0.09	-0.18	-0.23	-0.25	-0.25	-0.25	-0.25
		PP+1.35·CM+1.5·V	N	10.125	10.125	10.125	10.125	10.125	10.125	10.125	10.125	10.125
			Vy	0.619	0.619	0.471	0.305	0.139	-0.027	-0.054	-0.054	-0.054
			Vz	-9.035	-8.741	-8.448	-8.154	-7.860	-7.566	-7.272	-6.979	-6.685
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	54.40	56.21	57.96	59.65	61.28	62.84	64.35	65.80	67.19
			Mz	0.13	0.01	-0.11	-0.19	-0.23	-0.24	-0.23	-0.22	-0.21
		1.35·PP+1.35·CM+1.5·V	N	10.105	10.105	10.105	10.105	10.105	10.105	10.105	10.105	10.105
			Vy	0.668	0.668	0.519	0.353	0.187	0.021	-0.006	-0.006	-0.006
			Vz	-11.335	-10.969	-10.603	-10.237	-9.871	-9.505	-9.139	-8.773	-8.408
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	68.32	70.59	72.78	74.90	76.94	78.91	80.81	82.63	84.38
			Mz	0.17	0.03	-0.09	-0.18	-0.23	-0.25	-0.25	-0.25	-0.25
		PP+CM+1.05·Q+1.5·V	N	10.036	10.036	10.036	10.036	10.036	10.036	10.036	10.036	10.036
			Vy	0.935	0.935	0.786	0.620	0.454	0.289	0.261	0.261	0.261
			Vz	-41.285	-39.840	-38.394	-36.949	-35.503	-34.058	-32.612	-31.167	-29.721
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	245.67	253.92	261.88	269.54	276.91	283.98	290.76	297.24	303.44
			Mz	0.36	0.17	-0.01	-0.15	-0.26	-0.33	-0.39	-0.44	-0.49
		1.35·PP+CM+1.05·Q+1.5·V	N	10.016	10.016	10.016	10.016	10.016	10.016	10.016	10.016	10.016
			Vy	0.983	0.983	0.835	0.669	0.503	0.337	0.310	0.310	0.310
			Vz	-43.585	-42.067	-40.549	-39.032	-37.514	-35.997	-34.479	-32.961	-31.444
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	259.59	268.30	276.70	284.79	292.57	300.05	307.22	314.07	320.62
			Mz	0.40	0.20	0.01	-0.14	-0.26	-0.35	-0.41	-0.47	-0.54
		PP+1.35·CM+1.05·Q+1.5·V	N	10.035	10.035	10.035	10.035	10.035	10.035	10.035	10.035	10.035
			Vy	0.941	0.941	0.793	0.627	0.461	0.295	0.268	0.268	0.268
			Vz	-41.925	-40.456	-38.988	-37.520	-36.051	-34.583	-33.115	-31.646	-30.178
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	249.46	257.84	265.92	273.70	281.18	288.36	295.24	301.83	308.12
			Mz	0.37	0.17	0.00	-0.15	-0.26	-0.34	-0.39	-0.45	-0.50
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	10.016	10.016	10.016	10.016	10.016	10.016	10.016	10.016	10.016
			Vy	0.989	0.989	0.841	0.675	0.509	0.343	0.316	0.316	0.316
			Vz	-44.224	-42.683	-41.143	-39.603	-38.062	-36.522	-34.982	-33.441	-31.901
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	263.37	272.21	280.74	288.95	296.84	304.43	311.70	318.66	325.30
			Mz	0.40	0.20	0.01	-0.14	-0.26	-0.35	-0.41	-0.48	-0.54
		PP+CM+1.5·Q+0.9·V	N	5.924	5.924	5.924	5.924	5.924	5.924	5.924	5.924	5.924
			Vy	0.890	0.890	0.801	0.701	0.602	0.502	0.486	0.486	0.486
			Vz	-55.381	-53.432	-51.483	-49.534	-47.585	-45.636	-43.687	-41.739	-39.790
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	329.25	340.32	350.99	361.26	371.14	380.61	389.70	398.38	406.68
			Mz	0.46	0.28	0.10	-0.05	-0.18	-0.29	-0.39	-0.49	-0.59
		1.35·PP+CM+1.5·Q+0.9·V	N	5.904	5.904	5.904	5.904	5.904	5.904	5.904	5.904	5.904
			Vy	0.938	0.938	0.849	0.749	0.650	0.550	0.534	0.534	0.534
			Vz	-57.680	-55.659	-53.638	-51.617	-49.596	-47.575	-45.554	-43.533	-41.512
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	343.17	354.69	365.81	376.51	386.80	396.68	406.15	415.21	423.86

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.50	0.30	0.12	-0.04	-0.18	-0.30	-0.41	-0.52	-0.63
		PP+1.35·CM+1.5·Q+0.9·V	N	5.923	5.923	5.923	5.923	5.923	5.923	5.923	5.923	5.923
			Vy	0.896	0.896	0.807	0.708	0.608	0.508	0.492	0.492	0.492
			Vz	-56.020	-54.048	-52.077	-50.105	-48.133	-46.162	-44.190	-42.218	-40.247
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	333.04	344.24	355.03	365.42	375.41	385.00	394.18	402.97	411.36
			Mz	0.46	0.28	0.11	-0.05	-0.18	-0.29	-0.40	-0.50	-0.60
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	5.904	5.904	5.904	5.904	5.904	5.904	5.904	5.904	5.904
			Vy	0.944	0.944	0.855	0.756	0.656	0.557	0.540	0.540	0.540
			Vz	-58.319	-56.275	-54.232	-52.188	-50.144	-48.101	-46.057	-44.013	-41.969
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	346.96	358.61	369.85	380.67	391.08	401.07	410.64	419.80	428.54
			Mz	0.50	0.31	0.12	-0.04	-0.18	-0.31	-0.42	-0.53	-0.64
		PP+CM+1.5·N	N	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292
			Vy	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618
			Vz	-17.898	-17.429	-16.959	-16.490	-16.021	-15.551	-15.082	-14.613	-14.143
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	111.07	114.66	118.16	121.56	124.87	128.08	131.19	134.21	137.14
			Mz	0.49	0.36	0.24	0.11	-0.01	-0.14	-0.27	-0.39	-0.52
		1.35·PP+CM+1.5·N	N	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311
			Vy	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
			Vz	-20.197	-19.656	-19.114	-18.573	-18.032	-17.490	-16.949	-16.408	-15.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	124.99	129.04	132.98	136.81	140.54	144.15	147.65	151.04	154.32
			Mz	0.53	0.39	0.25	0.12	-0.02	-0.15	-0.29	-0.42	-0.56
		PP+1.35·CM+1.5·N	N	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292	-0.292
			Vy	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
			Vz	-18.537	-18.045	-17.553	-17.061	-16.569	-16.077	-15.585	-15.093	-14.600
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	114.86	118.58	122.20	125.72	129.14	132.46	135.68	138.80	141.82
			Mz	0.49	0.37	0.24	0.11	-0.02	-0.14	-0.27	-0.40	-0.52
		1.35·PP+1.35·CM+1.5·N	N	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312
			Vy	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
			Vz	-20.837	-20.272	-19.708	-19.144	-18.580	-18.016	-17.452	-16.887	-16.323
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	128.77	132.95	137.02	140.97	144.81	148.53	152.13	155.63	159.00
			Mz	0.53	0.39	0.26	0.12	-0.02	-0.15	-0.29	-0.43	-0.56
		PP+CM+1.05·Q+1.5·N	N	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382
			Vy	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940
			Vz	-50.787	-49.143	-47.500	-45.856	-44.212	-42.568	-40.924	-39.281	-37.637
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	306.13	316.29	326.12	335.61	344.77	353.59	362.08	370.24	378.06
			Mz	0.72	0.53	0.34	0.15	-0.04	-0.23	-0.42	-0.62	-0.81
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.401	-0.401	-0.401	-0.401	-0.401	-0.401	-0.401	-0.401	-0.401
			Vy	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988
			Vz	-53.087	-51.371	-49.655	-47.939	-46.223	-44.507	-42.791	-41.075	-39.359
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	320.04	330.66	340.94	350.86	360.44	369.66	378.54	387.07	395.25
			Mz	0.76	0.56	0.36	0.16	-0.04	-0.25	-0.45	-0.65	-0.85
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382
			Vy	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946
			Vz	-51.426	-49.760	-48.093	-46.427	-44.760	-43.094	-41.427	-39.760	-38.094
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	309.92	320.21	330.16	339.77	349.04	357.97	366.57	374.82	382.74
			Mz	0.73	0.53	0.34	0.15	-0.04	-0.24	-0.43	-0.62	-0.81
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402
			Vy	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-53.726	-51.987	-50.248	-48.510	-46.771	-45.032	-43.294	-41.555	-39.816
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	323.83	334.58	344.98	355.02	364.71	374.04	383.02	391.65	399.93
			Mz	0.76	0.56	0.36	0.16	-0.04	-0.25	-0.45	-0.65	-0.85
		PP+CM+0.9·V+1.5·N	N	5.818	5.818	5.818	5.818	5.818	5.818	5.818	5.818	5.818
			Vy	0.892	0.892	0.804	0.704	0.604	0.505	0.489	0.489	0.489
			Vz	-17.898	-17.429	-16.959	-16.490	-16.021	-15.551	-15.082	-14.613	-14.143
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	111.09	114.68	118.18	121.58	124.89	128.10	131.21	134.23	137.16
			Mz	0.49	0.31	0.14	-0.02	-0.15	-0.26	-0.36	-0.46	-0.56
		1.35·PP+CM+0.9·V+1.5·N	N	5.799	5.799	5.799	5.799	5.799	5.799	5.799	5.799	5.799
			Vy	0.941	0.941	0.852	0.752	0.653	0.553	0.537	0.537	0.537
			Vz	-20.197	-19.656	-19.114	-18.573	-18.032	-17.490	-16.949	-16.408	-15.866
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	125.01	129.06	133.00	136.83	140.55	144.17	147.67	151.06	154.34
			Mz	0.53	0.34	0.16	-0.01	-0.15	-0.27	-0.38	-0.49	-0.60
		PP+1.35·CM+0.9·V+1.5·N	N	5.818	5.818	5.818	5.818	5.818	5.818	5.818	5.818	5.818
			Vy	0.899	0.899	0.810	0.710	0.611	0.511	0.495	0.495	0.495
			Vz	-18.537	-18.045	-17.553	-17.061	-16.569	-16.077	-15.585	-15.093	-14.600
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	114.88	118.60	122.22	125.74	129.16	132.48	135.70	138.82	141.84
			Mz	0.50	0.31	0.14	-0.02	-0.15	-0.26	-0.36	-0.47	-0.57
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	5.798	5.798	5.798	5.798	5.798	5.798	5.798	5.798	5.798
			Vy	0.947	0.947	0.858	0.759	0.659	0.559	0.543	0.543	0.543
			Vz	-20.837	-20.272	-19.708	-19.144	-18.580	-18.016	-17.452	-16.887	-16.323
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	128.79	132.97	137.04	140.99	144.83	148.55	152.15	155.65	159.02
			Mz	0.53	0.34	0.16	-0.01	-0.15	-0.28	-0.39	-0.50	-0.61
		PP+CM+1.05·Q+0.9·V+1.5·N	N	5.728	5.728	5.728	5.728	5.728	5.728	5.728	5.728	5.728
			Vy	1.214	1.214	1.125	1.026	0.926	0.826	0.810	0.810	0.810
			Vz	-50.787	-49.143	-47.500	-45.856	-44.212	-42.568	-40.924	-39.281	-37.637
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	306.15	316.31	326.14	335.63	344.79	353.61	362.10	370.26	378.08
			Mz	0.73	0.48	0.24	0.02	-0.18	-0.35	-0.52	-0.68	-0.85
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	5.709	5.709	5.709	5.709	5.709	5.709	5.709	5.709	5.709
			Vy	1.262	1.262	1.173	1.074	0.974	0.875	0.859	0.859	0.859
			Vz	-53.087	-51.371	-49.655	-47.939	-46.223	-44.507	-42.791	-41.075	-39.359
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	320.06	330.68	340.96	350.88	360.46	369.68	378.56	387.09	395.27
			Mz	0.76	0.51	0.26	0.03	-0.18	-0.37	-0.54	-0.72	-0.89
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	5.728	5.728	5.728	5.728	5.728	5.728	5.728	5.728	5.728
			Vy	1.221	1.221	1.132	1.032	0.932	0.833	0.817	0.817	0.817
			Vz	-51.426	-49.760	-48.093	-46.427	-44.760	-43.094	-41.427	-39.760	-38.094
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	309.94	320.22	330.18	339.79	349.06	357.99	366.59	374.84	382.76
			Mz	0.73	0.48	0.24	0.02	-0.18	-0.36	-0.52	-0.69	-0.85
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	5.708	5.708	5.708	5.708	5.708	5.708	5.708	5.708	5.708
			Vy	1.269	1.269	1.180	1.080	0.981	0.881	0.865	0.865	0.865
			Vz	-53.726	-51.987	-50.248	-48.510	-46.771	-45.032	-43.294	-41.555	-39.816
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	323.85	334.60	345.00	355.04	364.73	374.06	383.04	391.67	399.95
			Mz	0.77	0.51	0.26	0.03	-0.18	-0.37	-0.54	-0.72	-0.90
		PP+CM+1.5·Q+0.75·N	N	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303
			Vy	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847
			Vz	-60.132	-58.084	-56.036	-53.988	-51.940	-49.892	-47.844	-45.796	-43.748
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	359.48	371.50	383.10	394.29	405.06	415.42	425.36	434.88	443.98

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.64	0.47	0.29	0.12	-0.05	-0.22	-0.39	-0.57	-0.74
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323
			Vy	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895
			Vz	-62.431	-60.311	-58.191	-56.071	-53.951	-51.830	-49.710	-47.590	-45.470
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	373.39	385.87	397.93	409.54	420.73	431.49	441.81	451.71	461.17
			Mz	0.68	0.49	0.31	0.13	-0.05	-0.23	-0.42	-0.60	-0.78
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304
			Vy	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
			Vz	-60.771	-58.700	-56.629	-54.559	-52.488	-50.417	-48.346	-46.275	-44.205
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	363.27	375.42	387.14	398.45	409.34	419.80	429.84	439.46	448.66
			Mz	0.64	0.47	0.30	0.12	-0.05	-0.22	-0.40	-0.57	-0.74
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323
			Vy	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901
			Vz	-63.070	-60.927	-58.784	-56.642	-54.499	-52.356	-50.213	-48.070	-45.927
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	377.18	389.79	401.96	413.70	425.00	435.87	446.30	456.29	465.85
			Mz	0.68	0.50	0.31	0.13	-0.05	-0.24	-0.42	-0.60	-0.79
		PP+CM+1.5·V+0.75·N	N	10.009	10.009	10.009	10.009	10.009	10.009	10.009	10.009	10.009
			Vy	0.844	0.844	0.696	0.530	0.364	0.198	0.171	0.171	0.171
			Vz	-13.147	-12.777	-12.407	-12.036	-11.666	-11.296	-10.926	-10.556	-10.186
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	80.86	83.49	86.06	88.54	90.95	93.29	95.55	97.73	99.84
			Mz	0.31	0.14	-0.02	-0.14	-0.23	-0.29	-0.33	-0.36	-0.40
		1.35·PP+CM+1.5·V+0.75·N	N	9.989	9.989	9.989	9.989	9.989	9.989	9.989	9.989	9.989
			Vy	0.892	0.892	0.744	0.578	0.412	0.246	0.219	0.219	0.219
			Vz	-15.446	-15.004	-14.562	-14.120	-13.677	-13.235	-12.793	-12.351	-11.908
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	94.77	97.87	100.88	103.79	106.62	109.36	112.00	114.56	117.03
			Mz	0.35	0.17	0.00	-0.14	-0.24	-0.30	-0.35	-0.39	-0.44
		PP+1.35·CM+1.5·V+0.75·N	N	10.008	10.008	10.008	10.008	10.008	10.008	10.008	10.008	10.008
			Vy	0.851	0.851	0.702	0.536	0.370	0.204	0.177	0.177	0.177
			Vz	-13.786	-13.393	-13.000	-12.607	-12.214	-11.822	-11.429	-11.036	-10.643
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	84.65	87.41	90.10	92.70	95.22	97.67	100.03	102.32	104.52
			Mz	0.32	0.14	-0.02	-0.14	-0.24	-0.29	-0.33	-0.37	-0.40
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	9.988	9.988	9.988	9.988	9.988	9.988	9.988	9.988	9.988
			Vy	0.899	0.899	0.750	0.585	0.419	0.253	0.226	0.226	0.226
			Vz	-16.086	-15.621	-15.156	-14.690	-14.225	-13.760	-13.295	-12.830	-12.365
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	98.56	101.79	104.92	107.95	110.89	113.74	116.49	119.15	121.71
			Mz	0.35	0.17	0.00	-0.14	-0.24	-0.31	-0.35	-0.40	-0.44
		PP+CM+1.05·Q+1.5·V+0.75·N	N	9.919	9.919	9.919	9.919	9.919	9.919	9.919	9.919	9.919
			Vy	1.166	1.166	1.018	0.852	0.686	0.520	0.493	0.493	0.493
			Vz	-46.036	-44.492	-42.947	-41.402	-39.858	-38.313	-36.768	-35.224	-33.679
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	275.92	285.12	294.01	302.59	310.85	318.80	326.44	333.76	340.76
			Mz	0.55	0.31	0.08	-0.11	-0.26	-0.38	-0.49	-0.59	-0.69
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	9.899	9.899	9.899	9.899	9.899	9.899	9.899	9.899	9.899
			Vy	1.214	1.214	1.066	0.900	0.734	0.568	0.541	0.541	0.541
			Vz	-48.336	-46.719	-45.102	-43.485	-41.869	-40.252	-38.635	-37.018	-35.402
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	289.83	299.50	308.83	317.84	326.52	334.87	342.89	350.59	357.95
			Mz	0.58	0.34	0.10	-0.10	-0.26	-0.40	-0.51	-0.62	-0.73
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	9.918	9.918	9.918	9.918	9.918	9.918	9.918	9.918	9.918
			Vy	1.172	1.172	1.024	0.858	0.692	0.526	0.499	0.499	0.499

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-46.675	-45.108	-43.541	-41.973	-40.406	-38.838	-37.271	-35.703	-34.136
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	279.70	289.04	298.05	306.75	315.12	323.18	330.92	338.34	345.44
			Mz	0.55	0.31	0.09	-0.11	-0.26	-0.39	-0.49	-0.59	-0.69
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	9.899	9.899	9.899	9.899	9.899	9.899	9.899	9.899	9.899
			Vy	1.220	1.220	1.072	0.906	0.740	0.574	0.547	0.547	0.547
			Vz	-48.975	-47.335	-45.696	-44.056	-42.417	-40.777	-39.138	-37.498	-35.859
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	293.62	303.41	312.87	322.00	330.79	339.25	347.38	355.17	362.63
			Mz	0.59	0.34	0.10	-0.10	-0.26	-0.40	-0.51	-0.62	-0.73
		PP+CM+1.5·Q+0.9·V+0.75·N	N	5.807	5.807	5.807	5.807	5.807	5.807	5.807	5.807	5.807
			Vy	1.121	1.121	1.032	0.932	0.833	0.733	0.717	0.717	0.717
			Vz	-60.132	-58.084	-56.036	-53.988	-51.940	-49.892	-47.844	-45.796	-43.748
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	359.50	371.52	383.12	394.31	405.08	415.44	425.38	434.90	444.00
			Mz	0.64	0.41	0.19	0.00	-0.18	-0.34	-0.49	-0.64	-0.78
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.787
			Vy	1.169	1.169	1.080	0.981	0.881	0.781	0.765	0.765	0.765
			Vz	-62.431	-60.311	-58.191	-56.071	-53.951	-51.830	-49.710	-47.590	-45.470
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	373.41	385.89	397.94	409.56	420.75	431.51	441.83	451.73	461.19
			Mz	0.68	0.44	0.21	0.00	-0.19	-0.36	-0.51	-0.67	-0.82
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	5.806	5.806	5.806	5.806	5.806	5.806	5.806	5.806	5.806
			Vy	1.127	1.127	1.038	0.939	0.839	0.740	0.723	0.723	0.723
			Vz	-60.771	-58.700	-56.629	-54.559	-52.488	-50.417	-48.346	-46.275	-44.205
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	363.29	375.44	387.16	398.47	409.35	419.82	429.86	439.48	448.68
			Mz	0.65	0.42	0.20	0.00	-0.18	-0.35	-0.49	-0.64	-0.79
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.787
			Vy	1.176	1.176	1.087	0.987	0.887	0.788	0.772	0.772	0.772
			Vz	-63.070	-60.927	-58.784	-56.642	-54.499	-52.356	-50.213	-48.070	-45.927
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	377.20	389.81	401.98	413.72	425.02	435.89	446.32	456.31	465.87
			Mz	0.68	0.45	0.21	0.00	-0.19	-0.36	-0.51	-0.67	-0.83

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N12/N14	Madera	PP+CM	N	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
			Vy	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
			Vz	-5.960	-5.688	-5.417	-5.146	-4.875	-4.604	-4.333	-4.062	-3.791
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	62.48	63.66	64.79	65.87	66.89	67.85	68.76	69.61	70.41
			Mz	-0.13	-0.10	-0.06	-0.03	0.01	0.04	0.08	0.11	0.15
		1.35·PP+CM	N	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vy	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225
			Vz	-7.589	-7.246	-6.902	-6.559	-6.216	-5.873	-5.530	-5.187	-4.844
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	79.67	81.18	82.61	83.98	85.28	86.51	87.67	88.76	89.78
			Mz	-0.18	-0.13	-0.08	-0.04	0.01	0.05	0.10	0.14	0.19
		PP+1.35·CM	N	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
			Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vz	-6.416	-6.122	-5.829	-5.535	-5.241	-4.947	-4.653	-4.360	-4.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	67.16	68.44	69.65	70.81	71.90	72.94	73.91	74.83	75.69
			Mz	-0.14	-0.10	-0.07	-0.03	0.01	0.04	0.08	0.12	0.15

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35-PP+1.35-CM	N	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vy	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232
			Vz	-8.045	-7.679	-7.314	-6.948	-6.582	-6.216	-5.850	-5.484	-5.118
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	84.35	85.95	87.47	88.92	90.30	91.60	92.83	93.98	95.06
			Mz	-0.18	-0.13	-0.09	-0.04	0.01	0.05	0.10	0.15	0.20
		PP+CM+1.5-Q	N	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182
			Vy	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714
			Vz	-39.524	-37.575	-35.626	-33.677	-31.728	-29.780	-27.831	-25.882	-23.933
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	406.67	414.51	421.95	429.00	435.65	441.90	447.76	453.22	458.29
			Mz	-0.55	-0.40	-0.26	-0.11	0.03	0.18	0.32	0.47	0.61
		1.35-PP+CM+1.5-Q	N	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205
			Vy	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767
			Vz	-41.153	-39.132	-37.111	-35.090	-33.069	-31.048	-29.027	-27.006	-24.985
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	423.85	432.02	439.77	447.11	454.04	460.56	466.67	472.37	477.66
			Mz	-0.59	-0.43	-0.28	-0.12	0.03	0.19	0.35	0.50	0.66
		PP+1.35-CM+1.5-Q	N	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184
			Vy	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722
			Vz	-39.980	-38.009	-36.037	-34.066	-32.094	-30.122	-28.151	-26.179	-24.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	411.35	419.28	426.81	433.93	440.66	446.99	452.91	458.44	463.56
			Mz	-0.55	-0.41	-0.26	-0.11	0.03	0.18	0.33	0.47	0.62
		1.35-PP+1.35-CM+1.5-Q	N	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207
			Vy	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774
			Vz	-41.610	-39.566	-37.522	-35.478	-33.435	-31.391	-29.347	-27.304	-25.260
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	428.53	436.79	444.63	452.05	459.06	465.65	471.83	477.59	482.93
			Mz	-0.60	-0.44	-0.28	-0.12	0.03	0.19	0.35	0.51	0.66
		PP+CM+1.5-V	N	11.632	11.632	11.632	11.632	11.632	11.632	11.632	11.632	11.632
			Vy	0.247	0.247	0.099	-0.067	-0.233	-0.399	-0.426	-0.426	-0.426
			Vz	-5.960	-5.688	-5.417	-5.146	-4.875	-4.604	-4.333	-4.062	-3.791
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	62.46	63.64	64.77	65.85	66.87	67.83	68.74	69.59	70.39
			Mz	-0.17	-0.22	-0.26	-0.26	-0.23	-0.17	-0.08	0.01	0.09
		1.35-PP+CM+1.5-V	N	11.609	11.609	11.609	11.609	11.609	11.609	11.609	11.609	11.609
			Vy	0.195	0.195	0.046	-0.120	-0.286	-0.452	-0.479	-0.479	-0.479
			Vz	-7.589	-7.246	-6.902	-6.559	-6.216	-5.873	-5.530	-5.187	-4.844
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	79.65	81.16	82.60	83.96	85.26	86.49	87.65	88.74	89.76
			Mz	-0.21	-0.25	-0.28	-0.27	-0.23	-0.15	-0.06	0.04	0.14
		PP+1.35-CM+1.5-V	N	11.629	11.629	11.629	11.629	11.629	11.629	11.629	11.629	11.629
			Vy	0.240	0.240	0.091	-0.075	-0.240	-0.406	-0.433	-0.433	-0.433
			Vz	-6.416	-6.122	-5.829	-5.535	-5.241	-4.947	-4.653	-4.360	-4.066
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	67.14	68.42	69.63	70.79	71.88	72.92	73.90	74.81	75.67
			Mz	-0.18	-0.23	-0.26	-0.26	-0.23	-0.16	-0.08	0.01	0.10
		1.35-PP+1.35-CM+1.5-V	N	11.607	11.607	11.607	11.607	11.607	11.607	11.607	11.607	11.607
			Vy	0.187	0.187	0.039	-0.127	-0.293	-0.459	-0.486	-0.486	-0.486
			Vz	-8.045	-7.679	-7.314	-6.948	-6.582	-6.216	-5.850	-5.484	-5.118
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	84.33	85.93	87.45	88.90	90.28	91.58	92.81	93.96	95.04
			Mz	-0.22	-0.26	-0.28	-0.27	-0.23	-0.15	-0.05	0.04	0.14
		PP+CM+1.05-Q+1.5-V	N	11.554	11.554	11.554	11.554	11.554	11.554	11.554	11.554	11.554
			Vy	-0.132	-0.132	-0.280	-0.446	-0.612	-0.778	-0.805	-0.805	-0.805
			Vz	-29.455	-28.009	-26.564	-25.118	-23.672	-22.227	-20.781	-19.336	-17.890

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	303.39	309.23	314.78	320.04	325.00	329.67	334.04	338.12	341.91
			Mz	-0.46	-0.43	-0.39	-0.32	-0.21	-0.07	0.09	0.26	0.42
		1.35·PP+CM+1.05·Q+1.5·V	N	11.532	11.532	11.532	11.532	11.532	11.532	11.532	11.532	11.532
			Vy	-0.185	-0.185	-0.333	-0.499	-0.665	-0.831	-0.858	-0.858	-0.858
			Vz	-31.084	-29.566	-28.049	-26.531	-25.013	-23.496	-21.978	-20.461	-18.943
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	320.58	326.74	332.60	338.15	343.39	348.33	352.95	357.27	361.27
			Mz	-0.50	-0.47	-0.41	-0.33	-0.21	-0.06	0.12	0.29	0.46
		PP+1.35·CM+1.05·Q+1.5·V	N	11.552	11.552	11.552	11.552	11.552	11.552	11.552	11.552	11.552
			Vy	-0.140	-0.140	-0.288	-0.454	-0.620	-0.786	-0.813	-0.813	-0.813
			Vz	-29.911	-28.443	-26.975	-25.506	-24.038	-22.570	-21.101	-19.633	-18.165
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	308.07	314.00	319.64	324.98	330.01	334.75	339.19	343.34	347.18
			Mz	-0.47	-0.44	-0.40	-0.32	-0.21	-0.07	0.10	0.26	0.43
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	11.529	11.529	11.529	11.529	11.529	11.529	11.529	11.529	11.529
			Vy	-0.192	-0.192	-0.341	-0.507	-0.673	-0.839	-0.866	-0.866	-0.866
			Vz	-31.540	-30.000	-28.460	-26.919	-25.379	-23.839	-22.298	-20.758	-19.217
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	325.26	331.52	337.46	343.09	348.41	353.41	358.11	362.48	366.55
			Mz	-0.51	-0.47	-0.42	-0.33	-0.21	-0.06	0.12	0.29	0.47
		PP+CM+1.5·Q+0.9·V	N	6.840	6.840	6.840	6.840	6.840	6.840	6.840	6.840	6.840
			Vy	-0.463	-0.463	-0.552	-0.651	-0.751	-0.850	-0.866	-0.866	-0.866
			Vz	-39.524	-37.575	-35.626	-33.677	-31.728	-29.780	-27.831	-25.882	-23.933
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	406.65	414.49	421.94	428.98	435.64	441.89	447.75	453.21	458.28
			Mz	-0.57	-0.48	-0.37	-0.25	-0.11	0.05	0.23	0.40	0.58
		1.35·PP+CM+1.5·Q+0.9·V	N	6.817	6.817	6.817	6.817	6.817	6.817	6.817	6.817	6.817
			Vy	-0.515	-0.515	-0.604	-0.704	-0.803	-0.903	-0.919	-0.919	-0.919
			Vz	-41.153	-39.132	-37.111	-35.090	-33.069	-31.048	-29.027	-27.006	-24.985
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	423.84	432.00	439.76	447.10	454.03	460.55	466.66	472.36	477.64
			Mz	-0.61	-0.51	-0.39	-0.26	-0.11	0.06	0.25	0.44	0.63
		PP+1.35·CM+1.5·Q+0.9·V	N	6.838	6.838	6.838	6.838	6.838	6.838	6.838	6.838	6.838
			Vy	-0.470	-0.470	-0.559	-0.659	-0.758	-0.858	-0.874	-0.874	-0.874
			Vz	-39.980	-38.009	-36.037	-34.066	-32.094	-30.122	-28.151	-26.179	-24.207
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	411.33	419.26	426.79	433.92	440.65	446.98	452.90	458.43	463.55
			Mz	-0.58	-0.48	-0.38	-0.25	-0.11	0.05	0.23	0.41	0.59
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	6.815	6.815	6.815	6.815	6.815	6.815	6.815	6.815	6.815
			Vy	-0.523	-0.523	-0.612	-0.711	-0.811	-0.910	-0.927	-0.927	-0.927
			Vz	-41.610	-39.566	-37.522	-35.478	-33.435	-31.391	-29.347	-27.304	-25.260
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	428.52	436.78	444.61	452.04	459.05	465.64	471.81	477.57	482.92
			Mz	-0.62	-0.51	-0.40	-0.26	-0.11	0.07	0.26	0.44	0.63
		PP+CM+1.5·N	N	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368
			Vy	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653
			Vz	-12.559	-12.090	-11.621	-11.151	-10.682	-10.213	-9.744	-9.274	-8.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	137.14	139.65	142.06	144.38	146.60	148.72	150.75	152.68	154.52
			Mz	-0.52	-0.39	-0.25	-0.12	0.01	0.14	0.28	0.41	0.54
		1.35·PP+CM+1.5·N	N	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391
			Vy	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
			Vz	-14.189	-13.647	-13.106	-12.564	-12.023	-11.482	-10.940	-10.399	-9.857
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.33	157.16	159.88	162.49	164.99	167.38	169.66	171.83	173.89
			Mz	-0.56	-0.42	-0.27	-0.13	0.01	0.16	0.30	0.44	0.59

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+1.35·CM+1.5·N	N	-0.370	-0.370	-0.370	-0.370	-0.370	-0.370	-0.370	-0.370	-0.370
			Vy	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661
			Vz	-13.016	-12.524	-12.032	-11.540	-11.048	-10.556	-10.063	-9.571	-9.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	141.82	144.42	146.92	149.31	151.61	153.81	155.90	157.90	159.80
			Mz	-0.53	-0.39	-0.26	-0.12	0.01	0.15	0.28	0.42	0.55
		1.35·PP+1.35·CM+1.5·N	N	-0.393	-0.393	-0.393	-0.393	-0.393	-0.393	-0.393	-0.393	-0.393
			Vy	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714
			Vz	-14.645	-14.081	-13.517	-12.953	-12.389	-11.824	-11.260	-10.696	-10.132
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	159.01	161.93	164.74	167.43	170.01	172.47	174.82	177.05	179.17
			Mz	-0.57	-0.42	-0.28	-0.13	0.01	0.16	0.30	0.45	0.59
		PP+CM+1.05·Q+1.5·N	N	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445
			Vy	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033
			Vz	-36.054	-34.411	-32.767	-31.123	-29.479	-27.835	-26.192	-24.548	-22.904
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	378.07	385.24	392.07	398.56	404.73	410.56	416.05	421.21	426.03
			Mz	-0.81	-0.60	-0.39	-0.18	0.03	0.24	0.45	0.66	0.87
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468
			Vy	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085
			Vz	-37.684	-35.968	-34.252	-32.536	-30.820	-29.104	-27.388	-25.672	-23.957
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	395.26	402.75	409.89	416.68	423.12	429.22	434.96	440.36	445.40
			Mz	-0.85	-0.63	-0.41	-0.19	0.03	0.25	0.47	0.69	0.91
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448
			Vy	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040
			Vz	-36.511	-34.845	-33.178	-31.511	-29.845	-28.178	-26.512	-24.845	-23.178
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	382.75	390.01	396.93	403.50	409.74	415.64	421.20	426.43	431.31
			Mz	-0.82	-0.60	-0.39	-0.18	0.03	0.24	0.45	0.67	0.88
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470
			Vy	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093
			Vz	-38.140	-36.402	-34.663	-32.924	-31.186	-29.447	-27.708	-25.970	-24.231
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	399.94	407.52	414.75	421.62	428.14	434.30	440.12	445.57	450.68
			Mz	-0.86	-0.63	-0.41	-0.19	0.03	0.25	0.48	0.70	0.92
		PP+CM+0.9·V+1.5·N	N	6.654	6.654	6.654	6.654	6.654	6.654	6.654	6.654	6.654
			Vy	-0.402	-0.402	-0.491	-0.590	-0.690	-0.789	-0.806	-0.806	-0.806
			Vz	-12.559	-12.090	-11.621	-11.151	-10.682	-10.213	-9.744	-9.274	-8.805
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	137.13	139.64	142.05	144.36	146.58	148.71	150.74	152.67	154.51
			Mz	-0.54	-0.46	-0.37	-0.26	-0.13	0.02	0.18	0.35	0.51
		1.35·PP+CM+0.9·V+1.5·N	N	6.631	6.631	6.631	6.631	6.631	6.631	6.631	6.631	6.631
			Vy	-0.454	-0.454	-0.543	-0.643	-0.742	-0.842	-0.858	-0.858	-0.858
			Vz	-14.189	-13.647	-13.106	-12.564	-12.023	-11.482	-10.940	-10.399	-9.857
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	154.32	157.15	159.87	162.48	164.98	167.37	169.65	171.82	173.88
			Mz	-0.58	-0.49	-0.39	-0.27	-0.13	0.03	0.21	0.38	0.56
		PP+1.35·CM+0.9·V+1.5·N	N	6.652	6.652	6.652	6.652	6.652	6.652	6.652	6.652	6.652
			Vy	-0.409	-0.409	-0.498	-0.598	-0.697	-0.797	-0.813	-0.813	-0.813
			Vz	-13.016	-12.524	-12.032	-11.540	-11.048	-10.556	-10.063	-9.571	-9.079
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	141.81	144.41	146.90	149.30	151.60	153.80	155.89	157.89	159.79
			Mz	-0.55	-0.46	-0.37	-0.26	-0.13	0.02	0.19	0.35	0.52
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	6.629	6.629	6.629	6.629	6.629	6.629	6.629	6.629	6.629
			Vy	-0.462	-0.462	-0.551	-0.650	-0.750	-0.850	-0.866	-0.866	-0.866
			Vz	-14.645	-14.081	-13.517	-12.953	-12.389	-11.824	-11.260	-10.696	-10.132

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	159.00	161.92	164.73	167.42	169.99	172.46	174.80	177.04	179.15
			Mz	-0.59	-0.50	-0.39	-0.27	-0.13	0.03	0.21	0.39	0.56
		PP+CM+1.05·Q+0.9·V+1.5·N	N	6.576	6.576	6.576	6.576	6.576	6.576	6.576	6.576	6.576
			Vy	-0.781	-0.781	-0.870	-0.970	-1.069	-1.169	-1.185	-1.185	-1.185
			Vz	-36.054	-34.411	-32.767	-31.123	-29.479	-27.835	-26.192	-24.548	-22.904
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	378.06	385.22	392.06	398.55	404.72	410.54	416.04	421.20	426.02
			Mz	-0.83	-0.67	-0.51	-0.32	-0.11	0.12	0.36	0.60	0.84
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	6.554	6.554	6.554	6.554	6.554	6.554	6.554	6.554	6.554
			Vy	-0.834	-0.834	-0.923	-1.022	-1.122	-1.221	-1.238	-1.238	-1.238
			Vz	-37.684	-35.968	-34.252	-32.536	-30.820	-29.104	-27.388	-25.672	-23.957
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	395.25	402.74	409.88	416.67	423.11	429.20	434.95	440.34	445.39
			Mz	-0.87	-0.70	-0.53	-0.33	-0.11	0.13	0.38	0.63	0.88
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	6.574	6.574	6.574	6.574	6.574	6.574	6.574	6.574	6.574
			Vy	-0.789	-0.789	-0.878	-0.977	-1.077	-1.176	-1.192	-1.192	-1.192
			Vz	-36.511	-34.845	-33.178	-31.511	-29.845	-28.178	-26.512	-24.845	-23.178
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	382.74	390.00	396.91	403.49	409.73	415.63	421.19	426.41	431.30
			Mz	-0.84	-0.68	-0.51	-0.32	-0.11	0.12	0.36	0.60	0.85
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	6.551	6.551	6.551	6.551	6.551	6.551	6.551	6.551	6.551
			Vy	-0.841	-0.841	-0.930	-1.030	-1.129	-1.229	-1.245	-1.245	-1.245
			Vz	-38.140	-36.402	-34.663	-32.924	-31.186	-29.447	-27.708	-25.970	-24.231
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	399.93	407.51	414.73	421.61	428.13	434.29	440.10	445.56	450.67
			Mz	-0.88	-0.71	-0.53	-0.33	-0.11	0.13	0.38	0.64	0.89
		PP+CM+1.5·Q+0.75·N	N	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330
			Vy	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955
			Vz	-42.824	-40.776	-38.728	-36.680	-34.632	-32.584	-30.536	-28.488	-26.440
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	444.00	452.50	460.58	468.25	475.50	482.34	488.75	494.76	500.34
			Mz	-0.74	-0.55	-0.35	-0.16	0.03	0.23	0.42	0.62	0.81
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.353	-0.353	-0.353	-0.353	-0.353	-0.353	-0.353	-0.353	-0.353
			Vy	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007	-1.007
			Vz	-44.453	-42.333	-40.213	-38.093	-35.973	-33.853	-31.732	-29.612	-27.492
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	461.18	470.01	478.40	486.37	493.90	501.00	507.67	513.90	519.71
			Mz	-0.78	-0.58	-0.37	-0.17	0.04	0.24	0.45	0.65	0.86
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.333	-0.333	-0.333	-0.333	-0.333	-0.333	-0.333	-0.333	-0.333
			Vy	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962
			Vz	-43.280	-41.210	-39.139	-37.068	-34.997	-32.926	-30.856	-28.785	-26.714
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	448.68	457.27	465.44	473.19	480.52	487.42	493.91	499.97	505.62
			Mz	-0.75	-0.55	-0.36	-0.16	0.04	0.23	0.43	0.62	0.82
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.355	-0.355	-0.355	-0.355	-0.355	-0.355	-0.355	-0.355	-0.355
			Vy	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015
			Vz	-44.910	-42.767	-40.624	-38.481	-36.338	-34.195	-32.052	-29.910	-27.767
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	465.86	474.78	483.26	491.30	498.91	506.08	512.82	519.12	524.99
			Mz	-0.79	-0.58	-0.38	-0.17	0.04	0.24	0.45	0.66	0.86
		PP+CM+1.5·V+0.75·N	N	11.483	11.483	11.483	11.483	11.483	11.483	11.483	11.483	11.483
			Vy	0.007	0.007	-0.142	-0.308	-0.473	-0.639	-0.666	-0.666	-0.666
			Vz	-9.259	-8.889	-8.519	-8.149	-7.779	-7.409	-7.038	-6.668	-6.298
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	99.79	101.64	103.41	105.10	106.72	108.27	109.74	111.13	112.45
			Mz	-0.36	-0.37	-0.35	-0.31	-0.23	-0.11	0.02	0.16	0.29

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m	
		1.35-PP+CM+1.5-V+0.75-N	N	11.461	11.461	11.461	11.461	11.461	11.461	11.461	11.461	11.461	11.461
			Vy	-0.046	-0.046	-0.194	-0.360	-0.526	-0.692	-0.719	-0.719	-0.719	-0.719
			Vz	-10.889	-10.446	-10.004	-9.562	-9.120	-8.677	-8.235	-7.793	-7.351	-7.351
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	116.98	119.15	121.23	123.22	125.12	126.93	128.65	130.28	131.82	131.82
			Mz	-0.41	-0.40	-0.37	-0.32	-0.23	-0.10	0.04	0.19	0.34	0.34
		PP+1.35-CM+1.5-V+0.75-N	N	11.481	11.481	11.481	11.481	11.481	11.481	11.481	11.481	11.481	11.481
			Vy	-0.001	-0.001	-0.149	-0.315	-0.481	-0.647	-0.674	-0.674	-0.674	-0.674
			Vz	-9.716	-9.323	-8.930	-8.537	-8.144	-7.751	-7.358	-6.965	-6.573	-6.573
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	104.47	106.41	108.26	110.04	111.74	113.35	114.89	116.35	117.72	117.72
			Mz	-0.37	-0.37	-0.36	-0.31	-0.23	-0.11	0.02	0.16	0.30	0.30
		1.35-PP+1.35-CM+1.5-V+0.75-N	N	11.458	11.458	11.458	11.458	11.458	11.458	11.458	11.458	11.458	11.458
			Vy	-0.054	-0.054	-0.202	-0.368	-0.534	-0.700	-0.727	-0.727	-0.727	-0.727
			Vz	-11.345	-10.880	-10.415	-9.950	-9.485	-9.020	-8.555	-8.090	-7.625	-7.625
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	121.66	123.92	126.09	128.16	130.13	132.01	133.80	135.49	137.09	137.09
			Mz	-0.41	-0.40	-0.38	-0.32	-0.23	-0.10	0.05	0.19	0.34	0.34
		PP+CM+1.05-Q+1.5-V+0.75-N	N	11.406	11.406	11.406	11.406	11.406	11.406	11.406	11.406	11.406	11.406
			Vy	-0.373	-0.373	-0.521	-0.687	-0.853	-1.019	-1.046	-1.046	-1.046	-1.046
			Vz	-32.754	-31.210	-29.665	-28.121	-26.576	-25.031	-23.487	-21.942	-20.397	-20.397
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	340.72	347.23	353.42	359.29	364.85	370.10	375.04	379.65	383.96	383.96
			Mz	-0.65	-0.58	-0.49	-0.37	-0.21	-0.02	0.19	0.41	0.62	0.62
		1.35-PP+CM+1.05-Q+1.5-V+0.75-N	N	11.383	11.383	11.383	11.383	11.383	11.383	11.383	11.383	11.383	11.383
			Vy	-0.425	-0.425	-0.574	-0.740	-0.906	-1.072	-1.099	-1.099	-1.099	-1.099
			Vz	-34.384	-32.767	-31.150	-29.533	-27.917	-26.300	-24.683	-23.067	-21.450	-21.450
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	357.91	364.74	371.24	377.41	383.25	388.76	393.95	398.80	403.33	403.33
			Mz	-0.70	-0.61	-0.51	-0.38	-0.21	-0.01	0.22	0.44	0.66	0.66
		PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	11.404	11.404	11.404	11.404	11.404	11.404	11.404	11.404	11.404	11.404
			Vy	-0.380	-0.380	-0.529	-0.694	-0.860	-1.026	-1.053	-1.053	-1.053	-1.053
			Vz	-33.211	-31.644	-30.076	-28.509	-26.941	-25.374	-23.807	-22.239	-20.672	-20.672
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	345.40	352.00	358.27	364.23	369.87	375.19	380.19	384.87	389.24	389.24
			Mz	-0.66	-0.58	-0.49	-0.37	-0.21	-0.02	0.20	0.41	0.63	0.63
		1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	11.381	11.381	11.381	11.381	11.381	11.381	11.381	11.381	11.381	11.381
			Vy	-0.433	-0.433	-0.581	-0.747	-0.913	-1.079	-1.106	-1.106	-1.106	-1.106
			Vz	-34.840	-33.201	-31.561	-29.922	-28.282	-26.643	-25.003	-23.364	-21.724	-21.724
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	362.59	369.51	376.09	382.35	388.26	393.85	399.10	404.02	408.60	408.60
			Mz	-0.70	-0.61	-0.51	-0.38	-0.21	0.00	0.22	0.44	0.67	0.67
		PP+CM+1.5-Q+0.9-V+0.75-N	N	6.692	6.692	6.692	6.692	6.692	6.692	6.692	6.692	6.692	6.692
			Vy	-0.703	-0.703	-0.792	-0.892	-0.991	-1.091	-1.107	-1.107	-1.107	-1.107
			Vz	-42.824	-40.776	-38.728	-36.680	-34.632	-32.584	-30.536	-28.488	-26.440	-26.440
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	443.98	452.49	460.57	468.24	475.49	482.32	488.74	494.74	500.33	500.33
			Mz	-0.76	-0.62	-0.47	-0.30	-0.11	0.10	0.33	0.55	0.78	0.78
		1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	6.669	6.669	6.669	6.669	6.669	6.669	6.669	6.669	6.669	6.669
			Vy	-0.756	-0.756	-0.845	-0.944	-1.044	-1.144	-1.160	-1.160	-1.160	-1.160
			Vz	-44.453	-42.333	-40.213	-38.093	-35.973	-33.853	-31.732	-29.612	-27.492	-27.492
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	461.17	470.00	478.39	486.35	493.88	500.99	507.65	513.89	519.70	519.70
			Mz	-0.80	-0.65	-0.49	-0.31	-0.11	0.12	0.35	0.59	0.82	0.82
		PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	6.689	6.689	6.689	6.689	6.689	6.689	6.689	6.689	6.689	6.689
			Vy	-0.711	-0.711	-0.800	-0.899	-0.999	-1.098	-1.115	-1.115	-1.115	-1.115
			Vz	-43.280	-41.210	-39.139	-37.068	-34.997	-32.926	-30.856	-28.785	-26.711	-26.711

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	448.66	457.26	465.43	473.18	480.50	487.41	493.90	499.96	505.61
			Mz	-0.77	-0.62	-0.47	-0.30	-0.11	0.11	0.33	0.56	0.79
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	6.667	6.667	6.667	6.667	6.667	6.667	6.667	6.667	6.667
			Vy	-0.763	-0.763	-0.852	-0.952	-1.051	-1.151	-1.167	-1.167	-1.167
			Vz	-44.910	-42.767	-40.624	-38.481	-36.338	-34.195	-32.052	-29.910	-27.767
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	465.85	474.77	483.25	491.29	498.90	506.07	512.81	519.11	524.97
			Mz	-0.81	-0.66	-0.49	-0.31	-0.10	0.12	0.36	0.59	0.83

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m	
N14/N16	Madera	PP+CM	N	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	
			Vy	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	
			Vz	-3.523	-3.252	-2.981	-2.710	-2.439	-2.168	-1.897	-1.626	-1.355	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	70.41	71.10	71.74	72.31	72.84	73.31	73.72	74.08	74.38	
			Mz	0.14	0.11	0.07	0.03	0.00	-0.04	-0.08	-0.11	-0.15	
		1.35·PP+CM	N	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122
			Vy	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236
			Vz	-4.482	-4.139	-3.796	-3.453	-3.109	-2.766	-2.423	-2.080	-1.737	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	89.78	90.66	91.47	92.20	92.87	93.47	93.99	94.45	94.84	
			Mz	0.19	0.14	0.09	0.05	0.00	-0.05	-0.10	-0.15	-0.19	
		PP+1.35·CM	N	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	
			Vy	0.189	0.189	0.189	0.189	0.189	0.189	0.189	0.189	0.189	
			Vz	-3.797	-3.503	-3.209	-2.915	-2.621	-2.328	-2.034	-1.740	-1.446	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	75.69	76.43	77.11	77.74	78.30	78.80	79.25	79.63	79.95	
			Mz	0.15	0.11	0.07	0.04	0.00	-0.04	-0.08	-0.12	-0.16	
		1.35·PP+1.35·CM	N	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	
			Vy	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	
			Vz	-4.756	-4.390	-4.024	-3.658	-3.292	-2.926	-2.560	-2.195	-1.829	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	95.06	95.99	96.84	97.62	98.33	98.96	99.52	100.00	100.41	
			Mz	0.20	0.15	0.10	0.05	0.00	-0.05	-0.10	-0.15	-0.20	
		PP+CM+1.5·Q	N	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	
			Vy	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	
			Vz	-23.667	-21.718	-19.769	-17.820	-15.871	-13.922	-11.974	-10.025	-8.076	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	458.29	462.91	467.12	470.95	474.37	477.40	480.04	482.27	484.11	
			Mz	0.61	0.46	0.30	0.14	-0.01	-0.17	-0.33	-0.49	-0.64	
		1.35·PP+CM+1.5·Q	N	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	
			Vy	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	
			Vz	-24.626	-22.605	-20.584	-18.563	-16.542	-14.521	-12.500	-10.479	-8.458	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	477.66	482.46	486.85	490.83	494.40	497.56	500.31	502.65	504.57	
			Mz	0.66	0.49	0.32	0.15	-0.01	-0.18	-0.35	-0.52	-0.69	
		PP+1.35·CM+1.5·Q	N	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265	
			Vy	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	
			Vz	-23.941	-21.969	-19.997	-18.026	-16.054	-14.082	-12.111	-10.139	-8.168	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	463.57	468.23	472.50	476.37	479.83	482.90	485.56	487.82	489.69	
			Mz	0.62	0.46	0.30	0.14	-0.01	-0.17	-0.33	-0.49	-0.65	
		1.35·PP+1.35·CM+1.5·Q	N	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834
			Vz	-24.900	-22.856	-20.812	-18.769	-16.725	-14.681	-12.637	-10.594	-8.550
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	482.93	487.79	492.23	496.26	499.87	503.06	505.84	508.20	510.15
			Mz	0.66	0.49	0.32	0.15	-0.01	-0.19	-0.35	-0.52	-0.69
		PP+CM+1.5-V	N	12.331	12.331	12.331	12.331	12.331	12.331	12.331	12.331	12.331
			Vy	0.598	0.598	0.450	0.284	0.118	-0.048	-0.075	-0.075	-0.075
			Vz	-3.523	-3.252	-2.981	-2.710	-2.439	-2.168	-1.897	-1.626	-1.355
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	70.42	71.11	71.74	72.32	72.84	73.31	73.72	74.08	74.39
			Mz	0.11	-0.01	-0.12	-0.20	-0.24	-0.24	-0.23	-0.21	-0.20
		1.35-PP+CM+1.5-V	N	12.301	12.301	12.301	12.301	12.301	12.301	12.301	12.301	12.301
			Vy	0.653	0.653	0.505	0.339	0.173	0.007	-0.020	-0.020	-0.020
			Vz	-4.482	-4.139	-3.796	-3.453	-3.109	-2.766	-2.423	-2.080	-1.737
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	89.79	90.66	91.47	92.21	92.88	93.47	94.00	94.46	94.85
			Mz	0.15	0.02	-0.10	-0.19	-0.24	-0.26	-0.25	-0.25	-0.24
		PP+1.35-CM+1.5-V	N	12.329	12.329	12.329	12.329	12.329	12.329	12.329	12.329	12.329
			Vy	0.606	0.606	0.458	0.292	0.126	-0.040	-0.067	-0.067	-0.067
			Vz	-3.797	-3.503	-3.209	-2.915	-2.621	-2.328	-2.034	-1.740	-1.446
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	75.69	76.44	77.12	77.74	78.30	78.81	79.25	79.63	79.96
			Mz	0.11	-0.01	-0.12	-0.19	-0.24	-0.25	-0.23	-0.22	-0.21
		1.35-PP+1.35-CM+1.5-V	N	12.299	12.299	12.299	12.299	12.299	12.299	12.299	12.299	12.299
			Vy	0.661	0.661	0.513	0.347	0.181	0.015	-0.012	-0.012	-0.012
			Vz	-4.756	-4.390	-4.024	-3.658	-3.292	-2.926	-2.560	-2.195	-1.829
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	95.06	95.99	96.85	97.63	98.34	98.97	99.53	100.01	100.42
			Mz	0.16	0.02	-0.10	-0.18	-0.24	-0.26	-0.26	-0.25	-0.25
		PP+CM+1.05-Q+1.5-V	N	12.211	12.211	12.211	12.211	12.211	12.211	12.211	12.211	12.211
			Vy	1.011	1.011	0.862	0.697	0.531	0.365	0.338	0.338	0.338
			Vz	-17.624	-16.178	-14.733	-13.287	-11.842	-10.396	-8.951	-7.505	-6.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	341.93	345.37	348.51	351.36	353.92	356.18	358.15	359.82	361.20
			Mz	0.44	0.23	0.04	-0.12	-0.25	-0.34	-0.41	-0.47	-0.54
		1.35-PP+CM+1.05-Q+1.5-V	N	12.181	12.181	12.181	12.181	12.181	12.181	12.181	12.181	12.181
			Vy	1.066	1.066	0.918	0.752	0.586	0.420	0.393	0.393	0.393
			Vz	-18.583	-17.065	-15.547	-14.030	-12.512	-10.995	-9.477	-7.960	-6.442
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	361.30	364.93	368.24	371.25	373.95	376.34	378.42	380.19	381.66
			Mz	0.48	0.26	0.06	-0.11	-0.25	-0.35	-0.43	-0.51	-0.59
		PP+1.35-CM+1.05-Q+1.5-V	N	12.209	12.209	12.209	12.209	12.209	12.209	12.209	12.209	12.209
			Vy	1.019	1.019	0.871	0.705	0.539	0.373	0.346	0.346	0.346
			Vz	-17.897	-16.429	-14.961	-13.493	-12.024	-10.556	-9.088	-7.619	-6.151
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	347.21	350.70	353.89	356.78	359.38	361.67	363.67	365.37	366.77
			Mz	0.44	0.23	0.04	-0.12	-0.25	-0.34	-0.41	-0.48	-0.55
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	12.179	12.179	12.179	12.179	12.179	12.179	12.179	12.179	12.179
			Vy	1.074	1.074	0.926	0.760	0.594	0.428	0.401	0.401	0.401
			Vz	-18.857	-17.316	-15.776	-14.235	-12.695	-11.155	-9.614	-8.074	-6.534
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	366.58	370.26	373.62	376.67	379.41	381.84	383.95	385.75	387.23
			Mz	0.49	0.27	0.06	-0.11	-0.25	-0.35	-0.43	-0.51	-0.60
		PP+CM+1.5-Q+0.9-V	N	7.191	7.191	7.191	7.191	7.191	7.191	7.191	7.191	7.191
			Vy	1.021	1.021	0.932	0.832	0.733	0.633	0.617	0.617	0.617
			Vz	-23.667	-21.718	-19.769	-17.820	-15.871	-13.922	-11.974	-10.025	-8.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	458.29	462.91	467.13	470.95	474.38	477.41	480.04	482.28	484.12
			Mz	0.59	0.38	0.18	0.00	-0.16	-0.29	-0.42	-0.55	-0.67
		1.35-PP+CM+1.5-Q+0.9-V	N	7.161	7.161	7.161	7.161	7.161	7.161	7.161	7.161	7.161
			Vy	1.076	1.076	0.987	0.887	0.788	0.688	0.672	0.672	0.672
			Vz	-24.626	-22.605	-20.584	-18.563	-16.542	-14.521	-12.500	-10.479	-8.458
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	477.66	482.47	486.86	490.84	494.41	497.57	500.31	502.65	504.58
			Mz	0.63	0.42	0.20	0.01	-0.16	-0.31	-0.44	-0.58	-0.72
		PP+1.35-CM+1.5-Q+0.9-V	N	7.189	7.189	7.189	7.189	7.189	7.189	7.189	7.189	7.189
			Vy	1.029	1.029	0.940	0.841	0.741	0.642	0.625	0.625	0.625
			Vz	-23.941	-21.969	-19.997	-18.026	-16.054	-14.082	-12.111	-10.139	-8.168
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	463.57	468.24	472.50	476.37	479.84	482.90	485.56	487.83	489.69
			Mz	0.60	0.39	0.19	0.01	-0.16	-0.30	-0.42	-0.55	-0.68
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	7.159	7.159	7.159	7.159	7.159	7.159	7.159	7.159	7.159
			Vy	1.084	1.084	0.995	0.896	0.796	0.697	0.680	0.680	0.680
			Vz	-24.900	-22.856	-20.812	-18.769	-16.725	-14.681	-12.637	-10.594	-8.550
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	482.94	487.79	492.23	496.26	499.87	503.06	505.84	508.20	510.15
			Mz	0.64	0.42	0.21	0.02	-0.16	-0.31	-0.45	-0.59	-0.72
		PP+CM+1.5-N	N	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467
			Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
			Vz	-7.221	-6.751	-6.282	-5.813	-5.343	-4.874	-4.405	-3.935	-3.466
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.52	155.94	157.27	158.50	159.63	160.67	161.61	162.46	163.21
			Mz	0.54	0.40	0.27	0.13	0.00	-0.14	-0.28	-0.41	-0.55
		1.35-PP+CM+1.5-N	N	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497
			Vy	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725
			Vz	-8.180	-7.638	-7.097	-6.556	-6.014	-5.473	-4.931	-4.390	-3.849
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	173.89	175.50	177.00	178.38	179.66	180.83	181.89	182.84	183.67
			Mz	0.59	0.44	0.29	0.14	0.00	-0.15	-0.30	-0.45	-0.59
		PP+1.35-CM+1.5-N	N	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469
			Vy	0.678	0.678	0.678	0.678	0.678	0.678	0.678	0.678	0.678
			Vz	-7.495	-7.002	-6.510	-6.018	-5.526	-5.034	-4.542	-4.050	-3.558
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	159.80	161.27	162.64	163.92	165.09	166.17	167.14	168.01	168.79
			Mz	0.55	0.41	0.27	0.13	0.00	-0.14	-0.28	-0.42	-0.56
		1.35-PP+1.35-CM+1.5-N	N	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499
			Vy	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733
			Vz	-8.454	-7.889	-7.325	-6.761	-6.197	-5.633	-5.069	-4.504	-3.940
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	179.17	180.83	182.37	183.81	185.12	186.33	187.42	188.39	189.25
			Mz	0.59	0.44	0.29	0.14	0.00	-0.15	-0.30	-0.45	-0.60
		PP+CM+1.05-Q+1.5-N	N	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587
			Vy	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083
			Vz	-21.321	-19.678	-18.034	-16.390	-14.746	-13.102	-11.459	-9.815	-8.171
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	426.03	430.20	434.04	437.54	440.71	443.54	446.03	448.20	450.03
			Mz	0.87	0.65	0.43	0.21	-0.01	-0.23	-0.45	-0.67	-0.89
		1.35-PP+CM+1.05-Q+1.5-N	N	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617
			Vy	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138
			Vz	-22.281	-20.565	-18.849	-17.133	-15.417	-13.701	-11.985	-10.269	-8.553
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	445.40	449.76	453.77	457.43	460.74	463.70	466.31	468.57	470.49
			Mz	0.91	0.68	0.45	0.22	-0.01	-0.24	-0.48	-0.71	-0.94
		PP+1.35-CM+1.05-Q+1.5-N	N	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091
			Vz	-21.595	-19.929	-18.262	-16.596	-14.929	-13.262	-11.596	-9.929	-8.263
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	431.31	435.53	439.42	442.96	446.17	449.03	451.56	453.75	455.60
			Mz	0.87	0.65	0.43	0.21	-0.01	-0.23	-0.46	-0.68	-0.90
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619
			Vy	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146
			Vz	-22.554	-20.816	-19.077	-17.338	-15.600	-13.861	-12.122	-10.384	-8.645
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	450.68	455.09	459.15	462.85	466.20	469.19	471.84	474.13	476.06
			Mz	0.92	0.69	0.45	0.22	-0.01	-0.25	-0.48	-0.71	-0.95
		PP+CM+0.9·V+1.5·N	N	6.987	6.987	6.987	6.987	6.987	6.987	6.987	6.987	6.987
			Vy	0.920	0.920	0.831	0.732	0.632	0.532	0.516	0.516	0.516
			Vz	-7.221	-6.751	-6.282	-5.813	-5.343	-4.874	-4.405	-3.935	-3.466
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.52	155.94	157.27	158.50	159.63	160.67	161.62	162.46	163.22
			Mz	0.52	0.33	0.15	-0.01	-0.14	-0.26	-0.37	-0.47	-0.58
		1.35·PP+CM+0.9·V+1.5·N	N	6.957	6.957	6.957	6.957	6.957	6.957	6.957	6.957	6.957
			Vy	0.975	0.975	0.886	0.787	0.687	0.587	0.571	0.571	0.571
			Vz	-8.180	-7.638	-7.097	-6.556	-6.014	-5.473	-4.931	-4.390	-3.849
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	173.89	175.50	177.00	178.39	179.67	180.83	181.89	182.84	183.68
			Mz	0.56	0.37	0.17	0.00	-0.14	-0.27	-0.39	-0.51	-0.62
		PP+1.35·CM+0.9·V+1.5·N	N	6.985	6.985	6.985	6.985	6.985	6.985	6.985	6.985	6.985
			Vy	0.928	0.928	0.839	0.740	0.640	0.541	0.524	0.524	0.524
			Vz	-7.495	-7.002	-6.510	-6.018	-5.526	-5.034	-4.542	-4.050	-3.558
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	159.80	161.27	162.65	163.92	165.10	166.17	167.14	168.02	168.79
			Mz	0.53	0.34	0.16	0.00	-0.14	-0.26	-0.37	-0.48	-0.58
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	6.955	6.955	6.955	6.955	6.955	6.955	6.955	6.955	6.955
			Vy	0.983	0.983	0.894	0.795	0.695	0.596	0.579	0.579	0.579
			Vz	-8.454	-7.889	-7.325	-6.761	-6.197	-5.633	-5.069	-4.504	-3.940
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	179.17	180.83	182.38	183.81	185.13	186.33	187.42	188.39	189.25
			Mz	0.57	0.37	0.18	0.01	-0.14	-0.28	-0.39	-0.51	-0.63
		PP+CM+1.05·Q+0.9·V+1.5·N	N	6.867	6.867	6.867	6.867	6.867	6.867	6.867	6.867	6.867
			Vy	1.333	1.333	1.244	1.144	1.045	0.945	0.929	0.929	0.929
			Vz	-21.321	-19.678	-18.034	-16.390	-14.746	-13.102	-11.459	-9.815	-8.171
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	426.04	430.21	434.04	437.54	440.71	443.54	446.04	448.20	450.03
			Mz	0.85	0.58	0.31	0.07	-0.15	-0.36	-0.54	-0.73	-0.92
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	6.837	6.837	6.837	6.837	6.837	6.837	6.837	6.837	6.837
			Vy	1.388	1.388	1.299	1.200	1.100	1.000	0.984	0.984	0.984
			Vz	-22.281	-20.565	-18.849	-17.133	-15.417	-13.701	-11.985	-10.269	-8.553
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	445.41	449.76	453.77	457.43	460.74	463.70	466.31	468.58	470.49
			Mz	0.89	0.61	0.33	0.08	-0.15	-0.37	-0.57	-0.77	-0.97
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	6.865	6.865	6.865	6.865	6.865	6.865	6.865	6.865	6.865
			Vy	1.341	1.341	1.252	1.153	1.053	0.954	0.937	0.937	0.937
			Vz	-21.595	-19.929	-18.262	-16.596	-14.929	-13.262	-11.596	-9.929	-8.263
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	431.31	435.54	439.42	442.96	446.17	449.04	451.56	453.75	455.60
			Mz	0.85	0.58	0.32	0.07	-0.15	-0.36	-0.55	-0.74	-0.93
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	6.835	6.835	6.835	6.835	6.835	6.835	6.835	6.835	6.835
			Vy	1.396	1.396	1.307	1.208	1.108	1.009	0.992	0.992	0.992
			Vz	-22.554	-20.816	-19.077	-17.338	-15.600	-13.861	-12.122	-10.384	-8.645
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	450.68	455.09	459.15	462.85	466.20	469.20	471.84	474.13	476.06
			Mz	0.90	0.61	0.34	0.08	-0.15	-0.37	-0.57	-0.77	-0.98
		PP+CM+1.5·Q+0.75·N	N	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450
			Vy	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
			Vz	-25.516	-23.468	-21.420	-19.372	-17.324	-15.276	-13.228	-11.180	-9.132
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	500.34	505.33	509.89	514.04	517.77	521.08	523.98	526.46	528.53
			Mz	0.81	0.60	0.40	0.19	-0.02	-0.22	-0.43	-0.64	-0.84
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480
			Vy	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070
			Vz	-26.475	-24.355	-22.235	-20.115	-17.994	-15.874	-13.754	-11.634	-9.514
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	519.71	524.88	529.62	533.93	537.80	541.25	544.26	546.84	548.99
			Mz	0.85	0.64	0.42	0.20	-0.02	-0.23	-0.45	-0.67	-0.89
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452
			Vy	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
			Vz	-25.790	-23.719	-21.648	-19.577	-17.506	-15.436	-13.365	-11.294	-9.223
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	505.62	510.65	515.27	519.46	523.23	526.58	529.51	532.02	534.10
			Mz	0.82	0.61	0.40	0.19	-0.02	-0.22	-0.43	-0.64	-0.85
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482
			Vy	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079
			Vz	-26.749	-24.606	-22.463	-20.320	-18.177	-16.034	-13.891	-11.749	-9.606
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	524.99	530.21	535.00	539.35	543.26	546.74	549.78	552.39	554.56
			Mz	0.86	0.64	0.42	0.20	-0.02	-0.24	-0.46	-0.67	-0.89
		PP+CM+1.5·V+0.75·N	N	12.143	12.143	12.143	12.143	12.143	12.143	12.143	12.143	12.143
			Vy	0.842	0.842	0.694	0.528	0.362	0.196	0.169	0.169	0.169
			Vz	-5.372	-5.002	-4.631	-4.261	-3.891	-3.521	-3.151	-2.781	-2.410
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	112.47	113.53	114.51	115.41	116.24	116.99	117.67	118.27	118.80
			Mz	0.31	0.14	-0.02	-0.15	-0.24	-0.29	-0.33	-0.36	-0.40
		1.35·PP+CM+1.5·V+0.75·N	N	12.113	12.113	12.113	12.113	12.113	12.113	12.113	12.113	12.113
			Vy	0.897	0.897	0.749	0.583	0.417	0.251	0.224	0.224	0.224
			Vz	-6.331	-5.889	-5.446	-5.004	-4.562	-4.120	-3.677	-3.235	-2.793
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	131.84	133.08	134.24	135.30	136.27	137.15	137.95	138.65	139.26
			Mz	0.35	0.17	0.00	-0.14	-0.24	-0.31	-0.35	-0.40	-0.44
		PP+1.35·CM+1.5·V+0.75·N	N	12.141	12.141	12.141	12.141	12.141	12.141	12.141	12.141	12.141
			Vy	0.851	0.851	0.702	0.536	0.370	0.204	0.177	0.177	0.177
			Vz	-5.646	-5.253	-4.860	-4.467	-4.074	-3.681	-3.288	-2.895	-2.502
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	117.75	118.86	119.88	120.83	121.70	122.49	123.20	123.83	124.38
			Mz	0.31	0.14	-0.02	-0.15	-0.24	-0.30	-0.33	-0.37	-0.40
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	12.111	12.111	12.111	12.111	12.111	12.111	12.111	12.111	12.111
			Vy	0.906	0.906	0.757	0.591	0.425	0.259	0.232	0.232	0.232
			Vz	-6.605	-6.140	-5.675	-5.210	-4.745	-4.280	-3.814	-3.349	-2.884
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	137.12	138.41	139.61	140.72	141.73	142.65	143.47	144.20	144.84
			Mz	0.36	0.17	0.00	-0.13	-0.24	-0.31	-0.36	-0.40	-0.45
		PP+CM+1.05·Q+1.5·V+0.75·N	N	12.023	12.023	12.023	12.023	12.023	12.023	12.023	12.023	12.023
			Vy	1.255	1.255	1.107	0.941	0.775	0.609	0.582	0.582	0.582
			Vz	-19.473	-17.928	-16.383	-14.839	-13.294	-11.749	-10.205	-8.660	-7.115
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	383.99	387.79	391.28	394.45	397.31	399.86	402.09	404.01	405.62
			Mz	0.63	0.38	0.14	-0.07	-0.25	-0.39	-0.51	-0.62	-0.74
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	11.993	11.993	11.993	11.993	11.993	11.993	11.993	11.993	11.993

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	1.310	1.310	1.162	0.996	0.830	0.664	0.637	0.637	0.637
			Vz	-20.432	-18.815	-17.198	-15.581	-13.965	-12.348	-10.731	-9.114	-7.498
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	403.36	407.35	411.01	414.34	417.35	420.02	422.37	424.39	426.08
			Mz	0.68	0.41	0.16	-0.06	-0.25	-0.40	-0.53	-0.66	-0.79
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	12.021	12.021	12.021	12.021	12.021	12.021	12.021	12.021	12.021
			Vy	1.264	1.264	1.115	0.949	0.783	0.617	0.590	0.590	0.590
			Vz	-19.746	-18.179	-16.612	-15.044	-13.477	-11.909	-10.342	-8.774	-7.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	389.26	393.12	396.66	399.87	402.78	405.36	407.62	409.56	411.19
			Mz	0.64	0.38	0.14	-0.07	-0.25	-0.39	-0.51	-0.63	-0.75
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	11.991	11.991	11.991	11.991	11.991	11.991	11.991	11.991	11.991
			Vy	1.319	1.319	1.170	1.004	0.838	0.672	0.645	0.645	0.645
			Vz	-20.705	-19.066	-17.426	-15.787	-14.147	-12.508	-10.868	-9.229	-7.589
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	408.63	412.68	416.39	419.76	422.81	425.52	427.89	429.94	431.65
			Mz	0.68	0.42	0.16	-0.06	-0.25	-0.40	-0.53	-0.66	-0.79
		PP+CM+1.5·Q+0.9·V+0.75·N	N	7.003	7.003	7.003	7.003	7.003	7.003	7.003	7.003	7.003
			Vy	1.266	1.266	1.177	1.077	0.977	0.878	0.862	0.862	0.862
			Vz	-25.516	-23.468	-21.420	-19.372	-17.324	-15.276	-13.228	-11.180	-9.132
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	500.35	505.33	509.89	514.04	517.77	521.09	523.99	526.47	528.53
			Mz	0.79	0.53	0.28	0.05	-0.16	-0.35	-0.52	-0.70	-0.87
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	6.973	6.973	6.973	6.973	6.973	6.973	6.973	6.973	6.973
			Vy	1.321	1.321	1.232	1.132	1.032	0.933	0.917	0.917	0.917
			Vz	-26.475	-24.355	-22.235	-20.115	-17.994	-15.874	-13.754	-11.634	-9.514
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	519.72	524.89	529.62	533.93	537.80	541.25	544.26	546.84	548.99
			Mz	0.83	0.56	0.30	0.06	-0.16	-0.36	-0.54	-0.73	-0.92
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	7.001	7.001	7.001	7.001	7.001	7.001	7.001	7.001	7.001
			Vy	1.274	1.274	1.185	1.085	0.986	0.886	0.870	0.870	0.870
			Vz	-25.790	-23.719	-21.648	-19.577	-17.506	-15.436	-13.365	-11.294	-9.223
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	505.62	510.66	515.27	519.46	523.23	526.58	529.51	532.02	534.11
			Mz	0.79	0.54	0.28	0.05	-0.16	-0.35	-0.52	-0.70	-0.88
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	6.971	6.971	6.971	6.971	6.971	6.971	6.971	6.971	6.971
			Vy	1.329	1.329	1.240	1.140	1.041	0.941	0.925	0.925	0.925
			Vz	-26.749	-24.606	-22.463	-20.320	-18.177	-16.034	-13.891	-11.749	-9.606
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	524.99	530.21	535.00	539.35	543.27	546.74	549.79	552.39	554.57
			Mz	0.84	0.57	0.31	0.06	-0.16	-0.36	-0.55	-0.74	-0.92

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N16/N18	Madera	PP+CM	N	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108
			Vy	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184
			Vz	-1.086	-0.815	-0.544	-0.273	-0.002	0.269	0.540	0.811	1.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	74.38	74.57	74.71	74.80	74.82	74.80	74.71	74.58	74.38
			Mz	-0.15	-0.11	-0.07	-0.04	0.00	0.04	0.08	0.11	0.15
		1.35·PP+CM	N	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143
			Vy	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240
			Vz	-1.375	-1.032	-0.689	-0.346	-0.002	0.341	0.684	1.027	1.370
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	94.84	95.09	95.26	95.37	95.40	95.37	95.26	95.09	94.85
			Mz									

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.20	-0.15	-0.10	-0.05	0.00	0.05	0.10	0.15	0.20
		PP+1.35·CM	N	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111
			Vy	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193
			Vz	-1.177	-0.883	-0.590	-0.296	-0.002	0.292	0.586	0.879	1.173
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	79.95	80.16	80.31	80.40	80.43	80.40	80.32	80.17	79.96
			Mz	-0.16	-0.12	-0.08	-0.04	0.00	0.04	0.08	0.12	0.16
		1.35·PP+1.35·CM	N	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146
			Vy	-0.249	-0.249	-0.249	-0.249	-0.249	-0.249	-0.249	-0.249	-0.249
			Vz	-1.466	-1.100	-0.734	-0.368	-0.002	0.363	0.729	1.095	1.461
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	100.41	100.68	100.86	100.97	101.01	100.98	100.86	100.68	100.42
			Mz	-0.20	-0.15	-0.10	-0.05	0.00	0.05	0.10	0.15	0.20
		PP+CM+1.5·Q	N	-0.301	-0.301	-0.301	-0.301	-0.301	-0.301	-0.301	-0.301	-0.301
			Vy	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792
			Vz	-7.810	-5.861	-3.912	-1.963	-0.014	1.935	3.883	5.832	7.781
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	484.12	485.51	486.50	487.10	487.30	487.10	486.51	485.52	484.14
			Mz	-0.64	-0.48	-0.32	-0.16	0.00	0.16	0.32	0.48	0.64
		1.35·PP+CM+1.5·Q	N	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336
			Vy	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848
			Vz	-8.099	-6.078	-4.057	-2.036	-0.015	2.006	4.027	6.048	8.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	504.58	506.02	507.05	507.67	507.88	507.67	507.06	506.04	504.60
			Mz	-0.69	-0.52	-0.34	-0.17	0.00	0.17	0.35	0.52	0.69
		PP+1.35·CM+1.5·Q	N	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303	-0.303
			Vy	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800
			Vz	-7.901	-5.929	-3.958	-1.986	-0.014	1.957	3.929	5.901	7.872
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	489.69	491.10	492.10	492.71	492.91	492.71	492.11	491.11	489.71
			Mz	-0.65	-0.49	-0.32	-0.16	0.00	0.16	0.33	0.49	0.65
		1.35·PP+1.35·CM+1.5·Q	N	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339
			Vy	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856
			Vz	-8.190	-6.146	-4.102	-2.059	-0.015	2.029	4.073	6.116	8.160
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	510.15	511.61	512.65	513.28	513.49	513.28	512.66	511.63	510.17
			Mz	-0.70	-0.52	-0.35	-0.17	0.00	0.18	0.35	0.52	0.70
		PP+CM+1.5·V	N	12.220	12.220	12.220	12.220	12.220	12.220	12.220	12.220	12.220
			Vy	0.218	0.218	0.070	-0.096	-0.262	-0.428	-0.455	-0.455	-0.455
			Vz	-1.086	-0.815	-0.544	-0.273	-0.002	0.269	0.540	0.811	1.082
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	74.39	74.58	74.72	74.80	74.83	74.81	74.72	74.59	74.39
			Mz	-0.20	-0.24	-0.28	-0.27	-0.24	-0.17	-0.07	0.02	0.11
		1.35·PP+CM+1.5·V	N	12.184	12.184	12.184	12.184	12.184	12.184	12.184	12.184	12.184
			Vy	0.162	0.162	0.014	-0.152	-0.318	-0.484	-0.511	-0.511	-0.511
			Vz	-1.375	-1.032	-0.689	-0.346	-0.002	0.341	0.684	1.027	1.370
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	94.85	95.10	95.27	95.38	95.41	95.38	95.27	95.10	94.85
			Mz	-0.25	-0.28	-0.30	-0.28	-0.24	-0.15	-0.05	0.05	0.16
		PP+1.35·CM+1.5·V	N	12.217	12.217	12.217	12.217	12.217	12.217	12.217	12.217	12.217
			Vy	0.210	0.210	0.061	-0.105	-0.271	-0.437	-0.464	-0.464	-0.464
			Vz	-1.177	-0.883	-0.590	-0.296	-0.002	0.292	0.586	0.879	1.173
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	79.96	80.17	80.32	80.41	80.44	80.41	80.32	80.17	79.97
			Mz	-0.21	-0.25	-0.28	-0.27	-0.24	-0.16	-0.07	0.02	0.12
		1.35·PP+1.35·CM+1.5·V	N	12.182	12.182	12.182	12.182	12.182	12.182	12.182	12.182	12.182
			Vy	0.154	0.154	0.005	-0.161	-0.327	-0.493	-0.520	-0.520	-0.520

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-1.466	-1.100	-0.734	-0.368	-0.002	0.363	0.729	1.095	1.461
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	100.42	100.68	100.87	100.98	101.02	100.98	100.87	100.69	100.43
			Mz	-0.25	-0.28	-0.30	-0.29	-0.24	-0.15	-0.05	0.06	0.16
		PP+CM+1.05·Q+1.5·V	N	12.085	12.085	12.085	12.085	12.085	12.085	12.085	12.085	12.085
			Vy	-0.207	-0.207	-0.355	-0.521	-0.687	-0.853	-0.880	-0.880	-0.880
			Vz	-5.793	-4.347	-2.902	-1.456	-0.010	1.435	2.880	4.326	5.772
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	361.20	362.24	362.97	363.42	363.56	363.42	362.98	362.25	361.22
			Mz	-0.55	-0.50	-0.45	-0.36	-0.24	-0.08	0.10	0.28	0.46
		1.35·PP+CM+1.05·Q+1.5·V	N	12.049	12.049	12.049	12.049	12.049	12.049	12.049	12.049	12.049
			Vy	-0.263	-0.263	-0.411	-0.577	-0.743	-0.909	-0.936	-0.936	-0.936
			Vz	-6.082	-4.564	-3.046	-1.529	-0.011	1.506	3.024	4.542	6.059
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	381.66	382.75	383.52	383.99	384.14	383.99	383.53	382.76	381.68
			Mz	-0.59	-0.54	-0.47	-0.37	-0.24	-0.07	0.12	0.31	0.50
		PP+1.35·CM+1.05·Q+1.5·V	N	12.082	12.082	12.082	12.082	12.082	12.082	12.082	12.082	12.082
			Vy	-0.215	-0.215	-0.364	-0.530	-0.696	-0.862	-0.889	-0.889	-0.889
			Vz	-5.884	-4.415	-2.947	-1.479	-0.010	1.458	2.926	4.394	5.863
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	366.78	367.82	368.57	369.02	369.17	369.03	368.58	367.84	366.79
			Mz	-0.55	-0.51	-0.45	-0.36	-0.24	-0.08	0.10	0.28	0.46
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	12.047	12.047	12.047	12.047	12.047	12.047	12.047	12.047	12.047
			Vy	-0.272	-0.272	-0.420	-0.586	-0.752	-0.918	-0.945	-0.945	-0.945
			Vz	-6.173	-4.632	-3.092	-1.552	-0.011	1.529	3.070	4.610	6.150
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	387.24	388.34	389.12	389.59	389.75	389.60	389.13	388.35	387.26
			Mz	-0.60	-0.54	-0.47	-0.37	-0.24	-0.07	0.13	0.32	0.51
		PP+CM+1.5·Q+0.9·V	N	7.096	7.096	7.096	7.096	7.096	7.096	7.096	7.096	7.096
			Vy	-0.550	-0.550	-0.639	-0.739	-0.838	-0.938	-0.954	-0.954	-0.954
			Vz	-7.810	-5.861	-3.912	-1.963	-0.014	1.935	3.883	5.832	7.781
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	484.12	485.51	486.51	487.10	487.30	487.11	486.52	485.53	484.14
			Mz	-0.67	-0.56	-0.44	-0.30	-0.14	0.04	0.23	0.43	0.62
		1.35·PP+CM+1.5·Q+0.9·V	N	7.061	7.061	7.061	7.061	7.061	7.061	7.061	7.061	7.061
			Vy	-0.606	-0.606	-0.695	-0.795	-0.894	-0.994	-1.010	-1.010	-1.010
			Vz	-8.099	-6.078	-4.057	-2.036	-0.015	2.006	4.027	6.048	8.069
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	504.58	506.02	507.05	507.67	507.88	507.68	507.07	506.04	504.61
			Mz	-0.72	-0.60	-0.46	-0.31	-0.14	0.05	0.26	0.46	0.67
		PP+1.35·CM+1.5·Q+0.9·V	N	7.093	7.093	7.093	7.093	7.093	7.093	7.093	7.093	7.093
			Vy	-0.559	-0.559	-0.648	-0.747	-0.847	-0.946	-0.963	-0.963	-0.963
			Vz	-7.901	-5.929	-3.958	-1.986	-0.014	1.957	3.929	5.901	7.872
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	489.69	491.10	492.11	492.71	492.91	492.72	492.12	491.12	489.72
			Mz	-0.68	-0.57	-0.44	-0.30	-0.14	0.04	0.24	0.43	0.63
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	7.058	7.058	7.058	7.058	7.058	7.058	7.058	7.058	7.058
			Vy	-0.615	-0.615	-0.704	-0.803	-0.903	-1.002	-1.019	-1.019	-1.019
			Vz	-8.190	-6.146	-4.102	-2.059	-0.015	2.029	4.073	6.116	8.160
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	510.15	511.61	512.65	513.28	513.49	513.29	512.67	511.63	510.18
			Mz	-0.73	-0.60	-0.47	-0.31	-0.14	0.05	0.26	0.47	0.67
		PP+CM+1.5·N	N	-0.554	-0.554	-0.554	-0.554	-0.554	-0.554	-0.554	-0.554	-0.554
			Vy	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679
			Vz	-1.882	-1.412	-0.943	-0.474	-0.004	0.465	0.934	1.403	1.873
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	163.22	163.55	163.79	163.94	163.99	163.94	163.80	163.56	163.23

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.55	-0.41	-0.27	-0.14	0.00	0.14	0.28	0.42	0.55
		1.35·PP+CM+1.5·N	N	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589
			Vy	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735	-0.735
			Vz	-2.171	-1.629	-1.088	-0.547	-0.005	0.536	1.078	1.619	2.160
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	183.68	184.06	184.34	184.51	184.56	184.51	184.35	184.07	183.69
			Mz	-0.60	-0.45	-0.30	-0.15	0.00	0.15	0.30	0.45	0.60
		PP+1.35·CM+1.5·N	N	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556
			Vy	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687	-0.687
			Vz	-1.973	-1.481	-0.989	-0.497	-0.004	0.488	0.980	1.472	1.964
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	168.79	169.14	169.39	169.54	169.60	169.55	169.40	169.15	168.80
			Mz	-0.56	-0.42	-0.28	-0.14	0.00	0.14	0.28	0.42	0.56
		1.35·PP+1.35·CM+1.5·N	N	-0.591	-0.591	-0.591	-0.591	-0.591	-0.591	-0.591	-0.591	-0.591
			Vy	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
			Vz	-2.262	-1.698	-1.134	-0.569	-0.005	0.559	1.123	1.687	2.252
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	189.25	189.65	189.94	190.12	190.17	190.12	189.95	189.66	189.26
			Mz	-0.60	-0.45	-0.30	-0.15	0.00	0.15	0.30	0.46	0.61
		PP+CM+1.05·Q+1.5·N	N	-0.689	-0.689	-0.689	-0.689	-0.689	-0.689	-0.689	-0.689	-0.689
			Vy	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104
			Vz	-6.588	-4.945	-3.301	-1.657	-0.013	1.631	3.274	4.918	6.562
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	450.03	451.21	452.04	452.55	452.72	452.55	452.05	451.22	450.05
			Mz	-0.90	-0.67	-0.45	-0.22	0.00	0.23	0.45	0.68	0.90
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724
			Vy	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160
			Vz	-6.877	-5.161	-3.446	-1.730	-0.014	1.702	3.418	5.134	6.850
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	470.49	471.72	472.59	473.12	473.30	473.12	472.60	471.73	470.52
			Mz	-0.94	-0.71	-0.47	-0.23	0.00	0.24	0.47	0.71	0.95
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691
			Vy	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113
			Vz	-6.680	-5.013	-3.346	-1.680	-0.013	1.653	3.320	4.987	6.653
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	455.61	456.79	457.64	458.16	458.33	458.16	457.65	456.81	455.63
			Mz	-0.90	-0.68	-0.45	-0.22	0.00	0.23	0.45	0.68	0.91
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726
			Vy	-1.169	-1.169	-1.169	-1.169	-1.169	-1.169	-1.169	-1.169	-1.169
			Vz	-6.968	-5.230	-3.491	-1.752	-0.014	1.725	3.463	5.202	6.941
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	476.07	477.31	478.19	478.73	478.91	478.73	478.20	477.32	476.09
			Mz	-0.95	-0.71	-0.47	-0.24	0.00	0.24	0.48	0.72	0.95
		PP+CM+0.9·V+1.5·N	N	6.843	6.843	6.843	6.843	6.843	6.843	6.843	6.843	6.843
			Vy	-0.438	-0.438	-0.527	-0.626	-0.726	-0.825	-0.842	-0.842	-0.842
			Vz	-1.882	-1.412	-0.943	-0.474	-0.004	0.465	0.934	1.403	1.873
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	163.22	163.56	163.80	163.94	163.99	163.94	163.80	163.56	163.23
			Mz	-0.58	-0.49	-0.39	-0.28	-0.14	0.02	0.19	0.36	0.53
		1.35·PP+CM+0.9·V+1.5·N	N	6.808	6.808	6.808	6.808	6.808	6.808	6.808	6.808	6.808
			Vy	-0.494	-0.494	-0.583	-0.682	-0.782	-0.881	-0.898	-0.898	-0.898
			Vz	-2.171	-1.629	-1.088	-0.547	-0.005	0.536	1.078	1.619	2.160
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	183.68	184.07	184.35	184.51	184.57	184.51	184.35	184.08	183.69
			Mz	-0.63	-0.53	-0.42	-0.29	-0.14	0.03	0.21	0.39	0.58
		PP+1.35·CM+0.9·V+1.5·N	N	6.840	6.840	6.840	6.840	6.840	6.840	6.840	6.840	6.840
			Vy	-0.446	-0.446	-0.535	-0.635	-0.734	-0.834	-0.850	-0.850	-0.850

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-1.973	-1.481	-0.989	-0.497	-0.004	0.488	0.980	1.472	1.964
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	168.80	169.15	169.40	169.55	169.60	169.55	169.40	169.15	168.80
			Mz	-0.59	-0.50	-0.40	-0.28	-0.14	0.02	0.19	0.36	0.54
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	6.805	6.805	6.805	6.805	6.805	6.805	6.805	6.805	6.805
			Vy	-0.502	-0.502	-0.591	-0.691	-0.790	-0.890	-0.906	-0.906	-0.906
			Vz	-2.262	-1.698	-1.134	-0.569	-0.005	0.559	1.123	1.687	2.252
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	189.26	189.66	189.95	190.12	190.18	190.12	189.95	189.67	189.27
			Mz	-0.63	-0.53	-0.42	-0.29	-0.14	0.03	0.21	0.40	0.58
		PP+CM+1.05·Q+0.9·V+1.5·N	N	6.708	6.708	6.708	6.708	6.708	6.708	6.708	6.708	6.708
			Vy	-0.863	-0.863	-0.952	-1.051	-1.151	-1.250	-1.267	-1.267	-1.267
			Vz	-6.588	-4.945	-3.301	-1.657	-0.013	1.631	3.274	4.918	6.562
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	450.04	451.21	452.05	452.55	452.72	452.56	452.06	451.23	450.06
			Mz	-0.93	-0.75	-0.57	-0.36	-0.14	0.10	0.36	0.62	0.88
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	6.673	6.673	6.673	6.673	6.673	6.673	6.673	6.673	6.673
			Vy	-0.919	-0.919	-1.008	-1.107	-1.207	-1.306	-1.323	-1.323	-1.323
			Vz	-6.877	-5.161	-3.446	-1.730	-0.014	1.702	3.418	5.134	6.850
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	470.50	471.72	472.60	473.12	473.30	473.13	472.61	471.74	470.52
			Mz	-0.97	-0.79	-0.59	-0.38	-0.14	0.12	0.38	0.65	0.92
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	6.706	6.706	6.706	6.706	6.706	6.706	6.706	6.706	6.706
			Vy	-0.871	-0.871	-0.960	-1.060	-1.159	-1.259	-1.275	-1.275	-1.275
			Vz	-6.680	-5.013	-3.346	-1.680	-0.013	1.653	3.320	4.987	6.653
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	455.61	456.80	457.65	458.16	458.33	458.17	457.66	456.82	455.63
			Mz	-0.93	-0.76	-0.57	-0.37	-0.14	0.11	0.37	0.62	0.88
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	6.670	6.670	6.670	6.670	6.670	6.670	6.670	6.670	6.670
			Vy	-0.927	-0.927	-1.016	-1.116	-1.215	-1.315	-1.331	-1.331	-1.331
			Vz	-6.968	-5.230	-3.491	-1.752	-0.014	1.725	3.463	5.202	6.941
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	476.07	477.31	478.20	478.73	478.91	478.74	478.21	477.33	476.09
			Mz	-0.98	-0.79	-0.59	-0.38	-0.14	0.12	0.39	0.66	0.93
		PP+CM+1.5·Q+0.75·N	N	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524
			Vy	-1.039	-1.039	-1.039	-1.039	-1.039	-1.039	-1.039	-1.039	-1.039
			Vz	-8.208	-6.160	-4.112	-2.064	-0.015	2.032	4.080	6.128	8.176
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	528.53	530.00	531.04	531.67	531.88	531.67	531.05	530.01	528.56
			Mz	-0.84	-0.63	-0.42	-0.21	0.00	0.21	0.42	0.64	0.85
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.559	-0.559	-0.559	-0.559	-0.559	-0.559	-0.559	-0.559	-0.559
			Vy	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095
			Vz	-8.497	-6.376	-4.256	-2.136	-0.016	2.104	4.224	6.344	8.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	549.00	550.51	551.59	552.24	552.46	552.25	551.60	550.53	549.02
			Mz	-0.89	-0.67	-0.44	-0.22	0.00	0.22	0.45	0.67	0.89
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526
			Vy	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047
			Vz	-8.299	-6.228	-4.157	-2.086	-0.015	2.055	4.126	6.197	8.268
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	534.11	535.58	536.64	537.28	537.49	537.28	536.65	535.60	534.13
			Mz	-0.85	-0.64	-0.42	-0.21	0.00	0.21	0.43	0.64	0.85
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561
			Vy	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103	-1.103
			Vz	-8.588	-6.445	-4.302	-2.159	-0.016	2.127	4.270	6.412	8.555
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	554.57	556.10	557.19	557.85	558.07	557.85	557.20	556.12	554.59

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	-0.90	-0.67	-0.45	-0.22	0.00	0.23	0.45	0.67	0.90
		PP+CM+1.5·V+0.75·N	N	11.997	11.997	11.997	11.997	11.997	11.997	11.997	11.997	11.997
			Vy	-0.029	-0.029	-0.178	-0.344	-0.510	-0.675	-0.703	-0.703	-0.703
			Vz	-1.484	-1.114	-0.744	-0.373	-0.003	0.367	0.737	1.107	1.477
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	118.81	119.07	119.26	119.37	119.41	119.38	119.26	119.08	118.81
			Mz	-0.40	-0.39	-0.38	-0.32	-0.24	-0.11	0.03	0.17	0.31
		1.35·PP+CM+1.5·V+0.75·N	N	11.962	11.962	11.962	11.962	11.962	11.962	11.962	11.962	11.962
			Vy	-0.085	-0.085	-0.234	-0.400	-0.566	-0.732	-0.759	-0.759	-0.759
			Vz	-1.773	-1.331	-0.888	-0.446	-0.004	0.438	0.881	1.323	1.765
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	139.27	139.58	139.81	139.95	139.99	139.95	139.81	139.59	139.28
			Mz	-0.45	-0.43	-0.40	-0.33	-0.24	-0.10	0.05	0.20	0.36
		PP+1.35·CM+1.5·V+0.75·N	N	11.994	11.994	11.994	11.994	11.994	11.994	11.994	11.994	11.994
			Vy	-0.038	-0.038	-0.186	-0.352	-0.518	-0.684	-0.711	-0.711	-0.711
			Vz	-1.575	-1.182	-0.789	-0.396	-0.003	0.390	0.783	1.176	1.569
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	124.38	124.66	124.86	124.98	125.02	124.98	124.86	124.67	124.39
			Mz	-0.41	-0.40	-0.38	-0.32	-0.24	-0.11	0.03	0.18	0.32
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	11.959	11.959	11.959	11.959	11.959	11.959	11.959	11.959	11.959
			Vy	-0.094	-0.094	-0.242	-0.408	-0.574	-0.740	-0.767	-0.767	-0.767
			Vz	-1.864	-1.399	-0.934	-0.469	-0.004	0.461	0.926	1.391	1.856
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	144.84	145.17	145.41	145.55	145.60	145.56	145.41	145.18	144.85
			Mz	-0.45	-0.43	-0.40	-0.34	-0.24	-0.10	0.05	0.21	0.37
		PP+CM+1.05·Q+1.5·V+0.75·N	N	11.862	11.862	11.862	11.862	11.862	11.862	11.862	11.862	11.862
			Vy	-0.454	-0.454	-0.603	-0.769	-0.935	-1.101	-1.128	-1.128	-1.128
			Vz	-6.190	-4.646	-3.101	-1.557	-0.012	1.533	3.077	4.622	6.167
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	405.62	406.72	407.51	407.99	408.15	407.99	407.52	406.74	405.64
			Mz	-0.75	-0.65	-0.55	-0.41	-0.24	-0.03	0.20	0.43	0.66
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	11.827	11.827	11.827	11.827	11.827	11.827	11.827	11.827	11.827
			Vy	-0.510	-0.510	-0.659	-0.825	-0.991	-1.157	-1.184	-1.184	-1.184
			Vz	-6.479	-4.863	-3.246	-1.629	-0.012	1.604	3.221	4.838	6.454
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	426.08	427.24	428.06	428.56	428.72	428.56	428.07	427.25	426.10
			Mz	-0.79	-0.69	-0.57	-0.42	-0.24	-0.02	0.22	0.46	0.71
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	11.859	11.859	11.859	11.859	11.859	11.859	11.859	11.859	11.859
			Vy	-0.463	-0.463	-0.611	-0.777	-0.943	-1.109	-1.136	-1.136	-1.136
			Vz	-6.282	-4.714	-3.147	-1.579	-0.012	1.556	3.123	4.690	6.258
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	411.20	412.31	413.11	413.59	413.76	413.60	413.12	412.33	411.22
			Mz	-0.75	-0.66	-0.55	-0.41	-0.24	-0.03	0.20	0.44	0.67
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	11.824	11.824	11.824	11.824	11.824	11.824	11.824	11.824	11.824
			Vy	-0.519	-0.519	-0.667	-0.833	-0.999	-1.165	-1.192	-1.192	-1.192
			Vz	-6.571	-4.931	-3.292	-1.652	-0.012	1.627	3.267	4.906	6.546
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	431.66	432.83	433.66	434.16	434.33	434.17	433.67	432.84	431.68
			Mz	-0.80	-0.69	-0.57	-0.42	-0.24	-0.01	0.23	0.47	0.71
		PP+CM+1.5·Q+0.9·V+0.75·N	N	6.873	6.873	6.873	6.873	6.873	6.873	6.873	6.873	6.873
			Vy	-0.798	-0.798	-0.887	-0.986	-1.086	-1.185	-1.201	-1.201	-1.201
			Vz	-8.208	-6.160	-4.112	-2.064	-0.015	2.032	4.080	6.128	8.176
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	528.54	530.00	531.05	531.67	531.88	531.68	531.06	530.02	528.57
			Mz	-0.87	-0.71	-0.54	-0.35	-0.14	0.09	0.33	0.58	0.82
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	6.838	6.838	6.838	6.838	6.838	6.838	6.838	6.838	6.838
			Vy	-0.854	-0.854	-0.943	-1.042	-1.142	-1.241	-1.258	-1.258	-1.258

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vz	-8.497	-6.376	-4.256	-2.136	-0.016	2.104	4.224	6.344	8.464
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	549.00	550.51	551.59	552.24	552.46	552.25	551.61	550.53	549.03
			Mz	-0.92	-0.75	-0.56	-0.36	-0.14	0.10	0.36	0.61	0.87
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870
			Vy	-0.806	-0.806	-0.895	-0.995	-1.094	-1.194	-1.210	-1.210	-1.210
			Vz	-8.299	-6.228	-4.157	-2.086	-0.015	2.055	4.126	6.197	8.268
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	534.11	535.59	536.65	537.28	537.49	537.29	536.66	535.61	534.14
			Mz	-0.88	-0.72	-0.54	-0.35	-0.14	0.09	0.34	0.58	0.83
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	6.835	6.835	6.835	6.835	6.835	6.835	6.835	6.835	6.835
			Vy	-0.862	-0.862	-0.951	-1.051	-1.150	-1.250	-1.266	-1.266	-1.266
	Vz		-8.588	-6.445	-4.302	-2.159	-0.016	2.127	4.270	6.412	8.555	
	Mt		-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
		My	554.57	556.10	557.19	557.85	558.07	557.86	557.21	556.12	554.60	
		Mz	-0.93	-0.75	-0.57	-0.36	-0.14	0.10	0.36	0.62	0.88	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N18/N20	Madera	PP+CM	N	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
			Vy	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
			Vz	1.351	1.622	1.893	2.164	2.435	2.706	2.977	3.248	3.519
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	74.38	74.08	73.72	73.31	72.84	72.32	71.74	71.11	70.42
			Mz	0.15	0.11	0.08	0.04	0.00	-0.03	-0.07	-0.11	-0.14
		1.35-PP+CM	N	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166
			Vy	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236
			Vz	1.732	2.075	2.418	2.761	3.104	3.447	3.791	4.134	4.477
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	94.84	94.46	94.00	93.47	92.88	92.21	91.48	90.67	89.79
			Mz	0.20	0.15	0.10	0.05	0.00	-0.04	-0.09	-0.14	-0.19
		PP+1.35-CM	N	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129
			Vy	0.189	0.189	0.189	0.189	0.189	0.189	0.189	0.189	0.189
			Vz	1.442	1.736	2.030	2.324	2.617	2.911	3.205	3.499	3.793
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	79.96	79.63	79.25	78.81	78.31	77.74	77.12	76.44	75.70
			Mz	0.16	0.12	0.08	0.04	0.00	-0.04	-0.07	-0.11	-0.15
	1.35-PP+1.35-CM	N	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	-0.170	
		Vy	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	
		Vz	1.823	2.189	2.555	2.921	3.287	3.653	4.019	4.385	4.751	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	100.42	100.01	99.53	98.97	98.34	97.63	96.85	96.00	95.07	
		Mz	0.20	0.15	0.10	0.05	0.00	-0.05	-0.10	-0.15	-0.19	
	PP+CM+1.5-Q	N	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	
		Vy	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	
		Vz	8.047	9.996	11.945	13.894	15.843	17.792	19.740	21.689	23.638	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	484.14	482.30	480.07	477.44	474.42	471.00	467.18	462.97	458.36	
		Mz	0.64	0.49	0.33	0.17	0.02	-0.14	-0.30	-0.45	-0.61	
	1.35-PP+CM+1.5-Q	N	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	
		Vy	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	
		Vz	8.428	10.449	12.470	14.491	16.512	18.533	20.554	22.575	24.596	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	504.60	502.68	500.35	497.61	494.45	490.89	486.91	482.53	477.73	
		Mz	0.69	0.52	0.35	0.19	0.02	-0.15	-0.32	-0.49	-0.65	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+1.35-CM+1.5-Q	N	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343
			Vy	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779
			Vz	8.139	10.110	12.082	14.054	16.025	17.997	19.969	21.940	23.912
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	489.71	487.85	485.60	482.94	479.88	476.42	472.56	468.30	463.64
			Mz	0.65	0.49	0.33	0.18	0.02	-0.14	-0.30	-0.46	-0.62
		1.35-PP+1.35-CM+1.5-Q	N	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384
			Vy	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834
			Vz	8.520	10.564	12.607	14.651	16.695	18.739	20.782	22.826	24.870
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	510.17	508.23	505.87	503.10	499.91	496.31	492.29	487.86	483.01
			Mz	0.70	0.53	0.36	0.19	0.02	-0.15	-0.32	-0.49	-0.66
		PP+CM+1.5-V	N	11.301	11.301	11.301	11.301	11.301	11.301	11.301	11.301	11.301
			Vy	0.567	0.567	0.419	0.253	0.087	-0.079	-0.106	-0.106	-0.106
			Vz	1.351	1.622	1.893	2.164	2.435	2.706	2.977	3.248	3.519
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	74.36	74.06	73.70	73.29	72.82	72.30	71.72	71.09	70.40
			Mz	0.09	-0.02	-0.13	-0.19	-0.23	-0.23	-0.21	-0.19	-0.17
		1.35-PP+CM+1.5-V	N	11.261	11.261	11.261	11.261	11.261	11.261	11.261	11.261	11.261
			Vy	0.622	0.622	0.474	0.308	0.142	-0.024	-0.051	-0.051	-0.051
			Vz	1.732	2.075	2.418	2.761	3.104	3.447	3.791	4.134	4.477
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	94.82	94.44	93.98	93.45	92.86	92.19	91.45	90.65	89.77
			Mz	0.14	0.01	-0.10	-0.18	-0.23	-0.24	-0.23	-0.22	-0.21
		PP+1.35-CM+1.5-V	N	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298
			Vy	0.576	0.576	0.427	0.261	0.095	-0.071	-0.098	-0.098	-0.098
			Vz	1.442	1.736	2.030	2.324	2.617	2.911	3.205	3.499	3.793
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	79.93	79.61	79.23	78.78	78.28	77.72	77.10	76.42	75.68
			Mz	0.10	-0.02	-0.12	-0.19	-0.23	-0.23	-0.21	-0.19	-0.17
		1.35-PP+1.35-CM+1.5-V	N	11.257	11.257	11.257	11.257	11.257	11.257	11.257	11.257	11.257
			Vy	0.631	0.631	0.482	0.316	0.150	-0.016	-0.043	-0.043	-0.043
			Vz	1.823	2.189	2.555	2.921	3.287	3.653	4.019	4.385	4.751
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	100.40	99.99	99.50	98.95	98.32	97.61	96.83	95.98	95.05
			Mz	0.14	0.02	-0.10	-0.18	-0.23	-0.24	-0.23	-0.22	-0.22
		PP+CM+1.05-Q+1.5-V	N	11.151	11.151	11.151	11.151	11.151	11.151	11.151	11.151	11.151
			Vy	0.980	0.980	0.832	0.666	0.500	0.334	0.307	0.307	0.307
			Vz	6.038	7.484	8.929	10.375	11.820	13.266	14.711	16.157	17.602
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	361.19	359.81	358.14	356.18	353.92	351.37	348.53	345.39	341.96
			Mz	0.44	0.24	0.05	-0.10	-0.22	-0.30	-0.37	-0.43	-0.49
		1.35-PP+CM+1.05-Q+1.5-V	N	11.111	11.111	11.111	11.111	11.111	11.111	11.111	11.111	11.111
			Vy	1.035	1.035	0.887	0.721	0.555	0.389	0.362	0.362	0.362
			Vz	6.419	7.937	9.455	10.972	12.490	14.007	15.525	17.043	18.560
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	381.65	380.19	378.42	376.34	373.96	371.26	368.26	364.95	361.33
			Mz	0.48	0.27	0.08	-0.09	-0.22	-0.31	-0.39	-0.46	-0.54
		PP+1.35-CM+1.05-Q+1.5-V	N	11.148	11.148	11.148	11.148	11.148	11.148	11.148	11.148	11.148
			Vy	0.989	0.989	0.840	0.674	0.508	0.342	0.315	0.315	0.315
			Vz	6.130	7.598	9.066	10.535	12.003	13.471	14.940	16.408	17.876
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	366.76	365.36	363.67	361.68	359.39	356.79	353.91	350.72	347.23
			Mz	0.44	0.24	0.06	-0.10	-0.22	-0.31	-0.37	-0.43	-0.50
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	11.107	11.107	11.107	11.107	11.107	11.107	11.107	11.107	11.107
			Vy	1.044	1.044	0.895	0.729	0.563	0.397	0.370	0.370	0.370
			Vz	6.511	8.051	9.592	11.132	12.673	14.213	15.753	17.294	18.834

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	387.22	385.74	383.95	381.84	379.42	376.69	373.64	370.28	366.60
			Mz	0.49	0.28	0.08	-0.09	-0.22	-0.32	-0.39	-0.47	-0.54
		PP+CM+1.5·Q+0.9·V	N	6.516	6.516	6.516	6.516	6.516	6.516	6.516	6.516	6.516
			Vy	1.003	1.003	0.914	0.814	0.715	0.615	0.599	0.599	0.599
			Vz	8.047	9.996	11.945	13.894	15.843	17.792	19.740	21.689	23.638
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	484.12	482.29	480.06	477.43	474.41	470.99	467.17	462.96	458.35
			Mz	0.61	0.40	0.21	0.03	-0.12	-0.26	-0.38	-0.50	-0.62
		1.35·PP+CM+1.5·Q+0.9·V	N	6.476	6.476	6.476	6.476	6.476	6.476	6.476	6.476	6.476
			Vy	1.058	1.058	0.969	0.869	0.770	0.670	0.654	0.654	0.654
			Vz	8.428	10.449	12.470	14.491	16.512	18.533	20.554	22.575	24.596
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	504.58	502.66	500.33	497.59	494.44	490.88	486.90	482.52	477.72
			Mz	0.65	0.44	0.23	0.05	-0.12	-0.27	-0.40	-0.53	-0.67
		PP+1.35·CM+1.5·Q+0.9·V	N	6.513	6.513	6.513	6.513	6.513	6.513	6.513	6.513	6.513
			Vy	1.011	1.011	0.922	0.822	0.723	0.623	0.607	0.607	0.607
			Vz	8.139	10.110	12.082	14.054	16.025	17.997	19.969	21.940	23.912
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	489.70	487.84	485.58	482.93	479.87	476.41	472.55	468.28	463.62
			Mz	0.62	0.41	0.21	0.04	-0.12	-0.26	-0.38	-0.51	-0.63
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	6.472	6.472	6.472	6.472	6.472	6.472	6.472	6.472	6.472
			Vy	1.066	1.066	0.977	0.877	0.778	0.678	0.662	0.662	0.662
			Vz	8.520	10.564	12.607	14.651	16.695	18.739	20.782	22.826	24.870
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	510.16	508.22	505.86	503.09	499.90	496.30	492.28	487.84	482.99
			Mz	0.66	0.44	0.24	0.05	-0.12	-0.27	-0.40	-0.54	-0.67
		PP+CM+1.5·N	N	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642
			Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
			Vz	3.457	3.926	4.396	4.865	5.334	5.804	6.273	6.742	7.211
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	163.22	162.47	161.62	160.68	159.65	158.51	157.29	155.96	154.54
			Mz	0.55	0.42	0.28	0.14	0.01	-0.13	-0.27	-0.40	-0.54
		1.35·PP+CM+1.5·N	N	-0.682	-0.682	-0.682	-0.682	-0.682	-0.682	-0.682	-0.682	-0.682
			Vy	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725
			Vz	3.838	4.380	4.921	5.462	6.004	6.545	7.087	7.628	8.169
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	183.68	182.85	181.90	180.85	179.68	178.40	177.02	175.52	173.91
			Mz	0.60	0.45	0.30	0.16	0.01	-0.14	-0.29	-0.43	-0.58
		PP+1.35·CM+1.5·N	N	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645
			Vy	0.678	0.678	0.678	0.678	0.678	0.678	0.678	0.678	0.678
			Vz	3.549	4.041	4.533	5.025	5.517	6.009	6.501	6.993	7.485
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	168.79	168.02	167.15	166.18	165.11	163.93	162.66	161.29	159.82
			Mz	0.56	0.42	0.28	0.15	0.01	-0.13	-0.27	-0.41	-0.54
		1.35·PP+1.35·CM+1.5·N	N	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686
			Vy	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733
			Vz	3.930	4.494	5.058	5.622	6.186	6.751	7.315	7.879	8.443
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	189.26	188.40	187.43	186.34	185.14	183.83	182.40	180.85	179.19
			Mz	0.60	0.46	0.31	0.16	0.01	-0.14	-0.29	-0.44	-0.59
		PP+CM+1.05·Q+1.5·N	N	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792
			Vy	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083
			Vz	8.145	9.788	11.432	13.076	14.720	16.364	18.007	19.651	21.295
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	450.05	448.22	446.07	443.57	440.75	437.59	434.09	430.26	426.10
			Mz	0.90	0.68	0.46	0.24	0.02	-0.20	-0.42	-0.64	-0.86

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35-PP+CM+1.05-Q+1.5-N	N	-0.832	-0.832	-0.832	-0.832	-0.832	-0.832	-0.832	-0.832	-0.832
			Vy	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138
			Vz	8.526	10.242	11.958	13.673	15.389	17.105	18.821	20.537	22.253
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	470.51	468.60	466.34	463.74	460.78	457.48	453.82	449.82	445.47
			Mz	0.94	0.71	0.48	0.25	0.02	-0.21	-0.45	-0.68	-0.91
		PP+1.35-CM+1.05-Q+1.5-N	N	-0.795	-0.795	-0.795	-0.795	-0.795	-0.795	-0.795	-0.795	-0.795
			Vy	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091
			Vz	8.236	9.903	11.569	13.236	14.902	16.569	18.236	19.902	21.569
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	455.62	453.78	451.59	449.07	446.21	443.01	439.47	435.59	431.37
			Mz	0.90	0.68	0.46	0.24	0.02	-0.20	-0.43	-0.65	-0.87
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836
			Vy	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146
			Vz	8.617	10.356	12.095	13.833	15.572	17.311	19.049	20.788	22.527
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	476.08	474.15	471.87	469.23	466.24	462.90	459.20	455.15	450.75
			Mz	0.95	0.72	0.48	0.25	0.02	-0.22	-0.45	-0.68	-0.91
		PP+CM+0.9-V+1.5-N	N	6.214	6.214	6.214	6.214	6.214	6.214	6.214	6.214	6.214
			Vy	0.902	0.902	0.813	0.713	0.614	0.514	0.498	0.498	0.498
			Vz	3.457	3.926	4.396	4.865	5.334	5.804	6.273	6.742	7.211
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	163.21	162.46	161.61	160.67	159.63	158.50	157.27	155.95	154.53
			Mz	0.52	0.33	0.16	0.00	-0.13	-0.25	-0.35	-0.45	-0.55
		1.35-PP+CM+0.9-V+1.5-N	N	6.174	6.174	6.174	6.174	6.174	6.174	6.174	6.174	6.174
			Vy	0.957	0.957	0.868	0.768	0.669	0.569	0.553	0.553	0.553
			Vz	3.838	4.380	4.921	5.462	6.004	6.545	7.087	7.628	8.169
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	183.67	182.83	181.89	180.83	179.67	178.39	177.00	175.51	173.90
			Mz	0.56	0.37	0.18	0.02	-0.13	-0.26	-0.37	-0.48	-0.59
		PP+1.35-CM+0.9-V+1.5-N	N	6.211	6.211	6.211	6.211	6.211	6.211	6.211	6.211	6.211
			Vy	0.910	0.910	0.821	0.721	0.622	0.522	0.506	0.506	0.506
			Vz	3.549	4.041	4.533	5.025	5.517	6.009	6.501	6.993	7.485
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	168.78	168.01	167.14	166.17	165.09	163.92	162.65	161.28	159.80
			Mz	0.52	0.34	0.16	0.01	-0.13	-0.25	-0.35	-0.45	-0.56
		1.35-PP+1.35-CM+0.9-V+1.5-N	N	6.170	6.170	6.170	6.170	6.170	6.170	6.170	6.170	6.170
			Vy	0.965	0.965	0.876	0.776	0.677	0.577	0.561	0.561	0.561
			Vz	3.930	4.494	5.058	5.622	6.186	6.751	7.315	7.879	8.443
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	189.24	188.39	187.41	186.33	185.13	183.81	182.38	180.84	179.18
			Mz	0.57	0.37	0.19	0.02	-0.13	-0.26	-0.37	-0.49	-0.60
		PP+CM+1.05-Q+0.9-V+1.5-N	N	6.064	6.064	6.064	6.064	6.064	6.064	6.064	6.064	6.064
			Vy	1.315	1.315	1.226	1.126	1.027	0.927	0.911	0.911	0.911
			Vz	8.145	9.788	11.432	13.076	14.720	16.364	18.007	19.651	21.295
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	450.03	448.21	446.05	443.56	440.73	437.57	434.08	430.25	426.09
			Mz	0.86	0.60	0.34	0.10	-0.12	-0.32	-0.51	-0.69	-0.88
		1.35-PP+CM+1.05-Q+0.9-V+1.5-N	N	6.024	6.024	6.024	6.024	6.024	6.024	6.024	6.024	6.024
			Vy	1.370	1.370	1.281	1.181	1.082	0.982	0.966	0.966	0.966
			Vz	8.526	10.242	11.958	13.673	15.389	17.105	18.821	20.537	22.253
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	470.50	468.59	466.33	463.72	460.77	457.46	453.81	449.81	445.46
			Mz	0.91	0.63	0.36	0.11	-0.12	-0.33	-0.53	-0.72	-0.92
		PP+1.35-CM+1.05-Q+0.9-V+1.5-N	N	6.061	6.061	6.061	6.061	6.061	6.061	6.061	6.061	6.061
			Vy	1.323	1.323	1.234	1.134	1.035	0.935	0.919	0.919	0.919
			Vz	8.236	9.903	11.569	13.236	14.902	16.569	18.236	19.902	21.569

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	455.61	453.76	451.58	449.06	446.20	443.00	439.46	435.58	431.36
			Mz	0.87	0.60	0.34	0.10	-0.12	-0.32	-0.51	-0.70	-0.88
	1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	
		Vy	1.378	1.378	1.289	1.189	1.090	0.990	0.974	0.974	0.974	
		Vz	8.617	10.356	12.095	13.833	15.572	17.311	19.049	20.788	22.527	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	476.07	474.14	471.86	469.22	466.23	462.89	459.19	455.14	450.73	
		Mz	0.92	0.63	0.36	0.11	-0.12	-0.33	-0.53	-0.73	-0.93	
	PP+CM+1.5·Q+0.75·N	N	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598	
		Vy	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	
		Vz	9.100	11.148	13.196	15.244	17.292	19.340	21.388	23.436	25.484	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	528.56	526.50	524.02	521.13	517.82	514.09	509.95	505.39	500.42	
		Mz	0.84	0.64	0.43	0.23	0.02	-0.19	-0.39	-0.60	-0.81	
	1.35·PP+CM+1.5·Q+0.75·N	N	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	
		Vy	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	
		Vz	9.482	11.602	13.722	15.842	17.962	20.082	22.202	24.322	26.442	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	549.02	546.87	544.30	541.29	537.85	533.99	529.69	524.95	519.79	
		Mz	0.89	0.67	0.45	0.24	0.02	-0.20	-0.42	-0.63	-0.85	
	PP+1.35·CM+1.5·Q+0.75·N	N	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	
		Vy	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	
		Vz	9.192	11.263	13.334	15.404	17.475	19.546	21.617	23.687	25.758	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	534.13	532.05	529.55	526.62	523.28	519.52	515.33	510.72	505.70	
		Mz	0.85	0.64	0.44	0.23	0.02	-0.19	-0.40	-0.61	-0.81	
	1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642	-0.642	
		Vy	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	
		Vz	9.573	11.716	13.859	16.002	18.145	20.287	22.430	24.573	26.716	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	554.59	552.42	549.82	546.79	543.32	539.41	535.06	530.28	525.07	
		Mz	0.90	0.68	0.46	0.24	0.02	-0.20	-0.42	-0.64	-0.86	
	PP+CM+1.5·V+0.75·N	N	11.043	11.043	11.043	11.043	11.043	11.043	11.043	11.043	11.043	
		Vy	0.812	0.812	0.664	0.498	0.332	0.166	0.139	0.139	0.139	
		Vz	2.404	2.774	3.144	3.514	3.885	4.255	4.625	4.995	5.365	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	118.78	118.25	117.65	116.97	116.22	115.39	114.49	113.51	112.46	
		Mz	0.29	0.13	-0.02	-0.14	-0.23	-0.28	-0.31	-0.33	-0.36	
	1.35·PP+CM+1.5·V+0.75·N	N	11.003	11.003	11.003	11.003	11.003	11.003	11.003	11.003	11.003	
		Vy	0.867	0.867	0.719	0.553	0.387	0.221	0.194	0.194	0.194	
		Vz	2.785	3.227	3.670	4.112	4.554	4.996	5.439	5.881	6.323	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	139.24	138.63	137.93	137.14	136.26	135.29	134.22	133.07	131.83	
		Mz	0.34	0.16	0.00	-0.13	-0.23	-0.29	-0.33	-0.37	-0.41	
	PP+1.35·CM+1.5·V+0.75·N	N	11.040	11.040	11.040	11.040	11.040	11.040	11.040	11.040	11.040	
		Vy	0.820	0.820	0.672	0.506	0.340	0.174	0.147	0.147	0.147	
		Vz	2.495	2.888	3.281	3.674	4.067	4.460	4.853	5.246	5.639	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	124.35	123.81	123.18	122.47	121.68	120.82	119.87	118.84	117.74	
		Mz	0.30	0.13	-0.02	-0.14	-0.23	-0.28	-0.31	-0.34	-0.37	
	1.35·PP+1.35·CM+1.5·V+0.75·N	N	10.999	10.999	10.999	10.999	10.999	10.999	10.999	10.999	10.999	
		Vy	0.875	0.875	0.727	0.561	0.395	0.229	0.202	0.202	0.202	
		Vz	2.877	3.342	3.807	4.272	4.737	5.202	5.667	6.132	6.597	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	144.81	144.18	143.46	142.63	141.72	140.71	139.60	138.40	137.11	
		Mz	0.35	0.17	0.00	-0.13	-0.23	-0.29	-0.33	-0.37	-0.41	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+CM+1.05·Q+1.5·V+0.75·N	N	10.893	10.893	10.893	10.893	10.893	10.893	10.893	10.893	10.893
			Vy	1.225	1.225	1.077	0.911	0.745	0.579	0.552	0.552	0.552
			Vz	7.091	8.636	10.181	11.725	13.270	14.815	16.359	17.904	19.449
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	405.61	404.01	402.09	399.87	397.32	394.47	391.30	387.81	384.02
			Mz	0.64	0.39	0.15	-0.05	-0.22	-0.35	-0.46	-0.58	-0.69
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	10.853	10.853	10.853	10.853	10.853	10.853	10.853	10.853	10.853
			Vy	1.280	1.280	1.132	0.966	0.800	0.634	0.607	0.607	0.607
			Vz	7.473	9.089	10.706	12.323	13.940	15.556	17.173	18.790	20.407
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	426.07	424.38	422.37	420.03	417.36	414.36	411.03	407.37	403.39
			Mz	0.68	0.42	0.18	-0.04	-0.22	-0.36	-0.49	-0.61	-0.73
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	10.890	10.890	10.890	10.890	10.890	10.890	10.890	10.890	10.890
			Vy	1.233	1.233	1.085	0.919	0.753	0.587	0.560	0.560	0.560
			Vz	7.183	8.750	10.318	11.885	13.453	15.020	16.588	18.155	19.722
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	411.18	409.56	407.62	405.36	402.79	399.89	396.68	393.14	389.29
			Mz	0.65	0.39	0.16	-0.05	-0.22	-0.35	-0.47	-0.58	-0.69
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	10.849	10.849	10.849	10.849	10.849	10.849	10.849	10.849	10.849
			Vy	1.288	1.288	1.140	0.974	0.808	0.642	0.615	0.615	0.615
			Vz	7.564	9.204	10.843	12.483	14.122	15.762	17.401	19.041	20.680
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	431.64	429.94	427.90	425.53	422.82	419.78	416.41	412.70	408.66
			Mz	0.69	0.43	0.18	-0.03	-0.22	-0.36	-0.49	-0.61	-0.74
		PP+CM+1.5·Q+0.9·V+0.75·N	N	6.258	6.258	6.258	6.258	6.258	6.258	6.258	6.258	6.258
			Vy	1.247	1.247	1.158	1.059	0.959	0.860	0.843	0.843	0.843
			Vz	9.100	11.148	13.196	15.244	17.292	19.340	21.388	23.436	25.484
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	528.54	526.48	524.01	521.11	517.81	514.08	509.94	505.38	500.41
			Mz	0.81	0.56	0.31	0.09	-0.12	-0.31	-0.48	-0.65	-0.82
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	6.218	6.218	6.218	6.218	6.218	6.218	6.218	6.218	6.218
			Vy	1.302	1.302	1.213	1.114	1.014	0.915	0.898	0.898	0.898
			Vz	9.482	11.602	13.722	15.842	17.962	20.082	22.202	24.322	26.442
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	549.00	546.86	544.28	541.28	537.84	533.97	529.67	524.94	519.78
			Mz	0.86	0.59	0.33	0.10	-0.12	-0.32	-0.50	-0.68	-0.86
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	6.255	6.255	6.255	6.255	6.255	6.255	6.255	6.255	6.255
			Vy	1.255	1.255	1.166	1.067	0.967	0.868	0.852	0.852	0.852
			Vz	9.192	11.263	13.334	15.404	17.475	19.546	21.617	23.687	25.758
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	534.11	532.03	529.53	526.61	523.27	519.50	515.32	510.71	505.68
			Mz	0.82	0.56	0.31	0.09	-0.12	-0.31	-0.48	-0.65	-0.83
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	6.214	6.214	6.214	6.214	6.214	6.214	6.214	6.214	6.214
			Vy	1.311	1.311	1.222	1.122	1.022	0.923	0.907	0.907	0.907
			Vz	9.573	11.716	13.859	16.002	18.145	20.287	22.430	24.573	26.716
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	554.58	552.41	549.81	546.77	543.30	539.39	535.05	530.27	525.05
			Mz	0.86	0.60	0.34	0.10	-0.12	-0.32	-0.50	-0.69	-0.87

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N20/N22	Madera	PP+CM	N	-0.145	-0.145	-0.145	-0.145	-0.145	-0.145	-0.145	-0.145	-0.145
			Vy	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
			Vz	3.787	4.058	4.329	4.600	4.871	5.142	5.413	5.684	5.955
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	70.42	69.62	68.77	67.86	66.90	65.88	64.81	63.68	62.50
			Mz	-0.14	-0.11	-0.07	-0.04	0.00	0.03	0.07	0.10	0.14
		1.35-PP+CM	N	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193
			Vy	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225
			Vz	4.838	5.182	5.525	5.868	6.211	6.554	6.897	7.240	7.583
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	89.79	88.77	87.69	86.53	85.30	84.00	82.63	81.20	79.69
			Mz	-0.19	-0.14	-0.10	-0.05	-0.01	0.04	0.09	0.13	0.18
		PP+1.35·CM	N	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148
			Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vz	4.061	4.355	4.649	4.943	5.236	5.530	5.824	6.118	6.412
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	75.70	74.84	73.93	72.95	71.92	70.82	69.67	68.45	67.18
			Mz	-0.15	-0.11	-0.08	-0.04	0.00	0.03	0.07	0.10	0.14
		1.35-PP+1.35·CM	N	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195
			Vy	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232
			Vz	5.113	5.478	5.844	6.210	6.576	6.942	7.308	7.674	8.040
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.07	93.99	92.84	91.62	90.31	88.94	87.49	85.97	84.37
			Mz	-0.20	-0.15	-0.10	-0.05	-0.01	0.04	0.09	0.14	0.18
		PP+CM+1.5·Q	N	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420
			Vy	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714	-0.714
			Vz	23.904	25.853	27.802	29.751	31.699	33.648	35.597	37.546	39.495
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	458.36	453.30	447.84	441.99	435.74	429.10	422.05	414.62	406.78
			Mz	-0.61	-0.47	-0.32	-0.18	-0.03	0.12	0.26	0.41	0.55
		1.35-PP+CM+1.5·Q	N	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468	-0.468
			Vy	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767
			Vz	24.955	26.976	28.997	31.018	33.039	35.060	37.081	39.102	41.123
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	477.73	472.45	466.76	460.65	454.14	447.21	439.88	432.13	423.97
			Mz	-0.66	-0.50	-0.34	-0.19	-0.03	0.12	0.28	0.44	0.59
		PP+1.35·CM+1.5·Q	N	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423
			Vy	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722
			Vz	24.178	26.150	28.121	30.093	32.065	34.036	36.008	37.980	39.951
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	463.63	458.51	453.00	447.08	440.76	434.03	426.91	419.39	411.46
			Mz	-0.62	-0.47	-0.32	-0.18	-0.03	0.12	0.26	0.41	0.56
		1.35-PP+1.35·CM+1.5·Q	N	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471
			Vy	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774	-0.774
			Vz	25.229	27.273	29.317	31.361	33.404	35.448	37.492	39.535	41.579
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	483.00	477.67	471.91	465.74	459.16	452.15	444.74	436.90	428.66
			Mz	-0.66	-0.50	-0.35	-0.19	-0.03	0.13	0.28	0.44	0.60
		PP+CM+1.5·V	N	9.566	9.566	9.566	9.566	9.566	9.566	9.566	9.566	9.566
			Vy	0.214	0.214	0.066	-0.100	-0.266	-0.432	-0.459	-0.459	-0.459
			Vz	3.787	4.058	4.329	4.600	4.871	5.142	5.413	5.684	5.955
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	70.46	69.66	68.81	67.90	66.94	65.92	64.85	63.72	62.53
			Mz	-0.20	-0.25	-0.28	-0.27	-0.24	-0.16	-0.07	0.02	0.12
		1.35-PP+CM+1.5·V	N	9.519	9.519	9.519	9.519	9.519	9.519	9.519	9.519	9.519
			Vy	0.161	0.161	0.013	-0.153	-0.319	-0.485	-0.512	-0.512	-0.512
			Vz	4.838	5.182	5.525	5.868	6.211	6.554	6.897	7.240	7.583
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	89.83	88.81	87.72	86.56	85.34	84.04	82.67	81.23	79.73
			Mz	-0.25	-0.28	-0.30	-0.28	-0.24	-0.15	-0.05	0.05	0.16
		PP+1.35·CM+1.5·V	N	9.563	9.563	9.563	9.563	9.563	9.563	9.563	9.563	9.563

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.207	0.207	0.058	-0.108	-0.274	-0.439	-0.467	-0.467	-0.467
			Vz	4.061	4.355	4.649	4.943	5.236	5.530	5.824	6.118	6.412
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	75.73	74.88	73.96	72.99	71.95	70.86	69.70	68.49	67.21
			Mz	-0.21	-0.25	-0.28	-0.27	-0.24	-0.16	-0.07	0.03	0.12
		1.35·PP+1.35·CM+1.5·V	N	9.516	9.516	9.516	9.516	9.516	9.516	9.516	9.516	9.516
			Vy	0.154	0.154	0.006	-0.160	-0.326	-0.492	-0.519	-0.519	-0.519
			Vz	5.113	5.478	5.844	6.210	6.576	6.942	7.308	7.674	8.040
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	95.11	94.03	92.88	91.65	90.35	88.98	87.53	86.01	84.41
			Mz	-0.25	-0.28	-0.30	-0.29	-0.24	-0.15	-0.05	0.06	0.16
		PP+CM+1.05·Q+1.5·V	N	9.374	9.374	9.374	9.374	9.374	9.374	9.374	9.374	9.374
			Vy	-0.165	-0.165	-0.314	-0.480	-0.646	-0.811	-0.839	-0.839	-0.839
			Vz	17.869	19.314	20.760	22.205	23.651	25.096	26.542	27.987	29.433
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	342.01	338.23	334.16	329.79	325.13	320.17	314.92	309.37	303.53
			Mz	-0.53	-0.50	-0.45	-0.37	-0.25	-0.10	0.07	0.24	0.41
		1.35·PP+CM+1.05·Q+1.5·V	N	9.326	9.326	9.326	9.326	9.326	9.326	9.326	9.326	9.326
			Vy	-0.218	-0.218	-0.366	-0.532	-0.698	-0.864	-0.891	-0.891	-0.891
			Vz	18.920	20.438	21.955	23.473	24.991	26.508	28.026	29.543	31.061
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	361.39	357.38	353.07	348.45	343.52	338.29	332.74	326.89	320.73
			Mz	-0.57	-0.53	-0.47	-0.38	-0.25	-0.10	0.09	0.27	0.45
		PP+1.35·CM+1.05·Q+1.5·V	N	9.371	9.371	9.371	9.371	9.371	9.371	9.371	9.371	9.371
			Vy	-0.173	-0.173	-0.321	-0.487	-0.653	-0.819	-0.846	-0.846	-0.846
			Vz	18.143	19.611	21.080	22.548	24.016	25.485	26.953	28.421	29.889
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	347.29	343.45	339.31	334.88	330.14	325.11	319.77	314.14	308.21
			Mz	-0.54	-0.50	-0.45	-0.37	-0.25	-0.10	0.07	0.24	0.41
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	9.323	9.323	9.323	9.323	9.323	9.323	9.323	9.323	9.323
			Vy	-0.226	-0.226	-0.374	-0.540	-0.706	-0.872	-0.899	-0.899	-0.899
			Vz	19.194	20.735	22.275	23.815	25.356	26.896	28.437	29.977	31.517
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	366.66	362.60	358.23	353.54	348.54	343.23	337.60	331.66	325.41
			Mz	-0.58	-0.53	-0.47	-0.38	-0.25	-0.09	0.09	0.27	0.45
		PP+CM+1.5·Q+0.9·V	N	5.407	5.407	5.407	5.407	5.407	5.407	5.407	5.407	5.407
			Vy	-0.482	-0.482	-0.571	-0.671	-0.771	-0.870	-0.886	-0.886	-0.886
			Vz	23.904	25.853	27.802	29.751	31.699	33.648	35.597	37.546	39.495
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	458.38	453.32	447.86	442.01	435.76	429.12	422.08	414.64	406.80
			Mz	-0.65	-0.55	-0.44	-0.32	-0.17	0.00	0.18	0.36	0.54
		1.35·PP+CM+1.5·Q+0.9·V	N	5.359	5.359	5.359	5.359	5.359	5.359	5.359	5.359	5.359
			Vy	-0.535	-0.535	-0.624	-0.724	-0.823	-0.923	-0.939	-0.939	-0.939
			Vz	24.955	26.976	28.997	31.018	33.039	35.060	37.081	39.102	41.123
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	477.75	472.47	466.78	460.68	454.16	447.24	439.90	432.15	424.00
			Mz	-0.69	-0.58	-0.46	-0.33	-0.17	0.01	0.20	0.39	0.58
		PP+1.35·CM+1.5·Q+0.9·V	N	5.404	5.404	5.404	5.404	5.404	5.404	5.404	5.404	5.404
			Vy	-0.490	-0.490	-0.579	-0.679	-0.778	-0.878	-0.894	-0.894	-0.894
			Vz	24.178	26.150	28.121	30.093	32.065	34.036	36.008	37.980	39.951
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	463.65	458.54	453.02	447.10	440.78	434.06	426.93	419.41	411.49
			Mz	-0.65	-0.55	-0.44	-0.32	-0.17	0.00	0.18	0.36	0.54
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	5.356	5.356	5.356	5.356	5.356	5.356	5.356	5.356	5.356
			Vy	-0.543	-0.543	-0.632	-0.731	-0.831	-0.930	-0.947	-0.947	-0.947
			Vz	25.229	27.273	29.317	31.361	33.404	35.448	37.492	39.535	41.579
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	483.03	477.69	471.93	465.76	459.18	452.18	444.76	436.93	428.68
			Mz	-0.70	-0.59	-0.47	-0.33	-0.17	0.01	0.20	0.39	0.59
		PP+CM+1.5·N	N	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740
			Vy	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653
			Vz	8.795	9.265	9.734	10.203	10.673	11.142	11.611	12.081	12.550
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.54	152.71	150.78	148.75	146.63	144.41	142.09	139.68	137.18
			Mz	-0.54	-0.41	-0.27	-0.14	-0.01	0.12	0.26	0.39	0.52
		1.35·PP+CM+1.5·N	N	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787
			Vy	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
			Vz	9.847	10.388	10.929	11.471	12.012	12.554	13.095	13.636	14.178
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	173.92	171.86	169.69	167.41	165.02	162.53	159.92	157.20	154.37
			Mz	-0.58	-0.44	-0.30	-0.15	-0.01	0.13	0.28	0.42	0.56
		PP+1.35·CM+1.5·N	N	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742
			Vy	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661	-0.661
			Vz	9.070	9.562	10.054	10.546	11.038	11.530	12.022	12.514	13.006
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	159.82	157.93	155.93	153.84	151.64	149.35	146.95	144.46	141.86
			Mz	-0.55	-0.41	-0.28	-0.14	-0.01	0.13	0.26	0.39	0.53
		1.35·PP+1.35·CM+1.5·N	N	-0.790	-0.790	-0.790	-0.790	-0.790	-0.790	-0.790	-0.790	-0.790
			Vy	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713
			Vz	10.121	10.685	11.249	11.813	12.378	12.942	13.506	14.070	14.634
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	179.19	177.08	174.85	172.50	170.04	167.47	164.78	161.97	159.05
			Mz	-0.59	-0.45	-0.30	-0.15	-0.01	0.14	0.28	0.43	0.57
		PP+CM+1.05·Q+1.5·N	N	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932
			Vy	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033
			Vz	22.877	24.521	26.165	27.809	29.452	31.096	32.740	34.384	36.028
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	426.10	421.28	416.12	410.64	404.81	398.66	392.17	385.34	378.18
			Mz	-0.87	-0.66	-0.45	-0.24	-0.03	0.18	0.39	0.60	0.81
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980
			Vy	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085	-1.085
			Vz	23.929	25.644	27.360	29.076	30.792	32.508	34.224	35.940	37.656
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	445.47	440.43	435.04	429.30	423.21	416.78	409.99	402.86	395.37
			Mz	-0.91	-0.69	-0.47	-0.25	-0.03	0.19	0.41	0.64	0.86
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935
			Vy	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040
			Vz	23.151	24.818	26.484	28.151	29.818	31.484	33.151	34.817	36.484
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	431.37	426.50	421.28	415.72	409.83	403.60	397.02	390.11	382.86
			Mz	-0.87	-0.66	-0.45	-0.24	-0.03	0.19	0.40	0.61	0.82
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983
			Vy	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093	-1.093
			Vz	24.203	25.941	27.680	29.419	31.157	32.896	34.635	36.373	38.112
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	450.75	445.65	440.19	434.39	428.23	421.72	414.85	407.63	400.05
			Mz	-0.92	-0.69	-0.47	-0.25	-0.03	0.19	0.42	0.64	0.86
		PP+CM+0.9·V+1.5·N	N	5.087	5.087	5.087	5.087	5.087	5.087	5.087	5.087	5.087
			Vy	-0.421	-0.421	-0.510	-0.610	-0.710	-0.809	-0.825	-0.825	-0.825
			Vz	8.795	9.265	9.734	10.203	10.673	11.142	11.611	12.081	12.550
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	154.57	152.73	150.80	148.77	146.65	144.43	142.12	139.71	137.20
			Mz	-0.57	-0.49	-0.39	-0.28	-0.15	0.01	0.18	0.34	0.51
		1.35·PP+CM+0.9·V+1.5·N	N	5.039	5.039	5.039	5.039	5.039	5.039	5.039	5.039	5.039

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.474	-0.474	-0.563	-0.663	-0.762	-0.862	-0.878	-0.878	-0.878
			Vz	9.847	10.388	10.929	11.471	12.012	12.554	13.095	13.636	14.178
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	173.94	171.88	169.71	167.44	165.05	162.55	159.94	157.22	154.39
			Mz	-0.62	-0.52	-0.42	-0.29	-0.15	0.02	0.20	0.37	0.55
		PP+1.35·CM+0.9·V+1.5·N	N	5.084	5.084	5.084	5.084	5.084	5.084	5.084	5.084	5.084
			Vy	-0.429	-0.429	-0.518	-0.617	-0.717	-0.817	-0.833	-0.833	-0.833
			Vz	9.070	9.562	10.054	10.546	11.038	11.530	12.022	12.514	13.006
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	159.84	157.95	155.95	153.86	151.66	149.37	146.97	144.48	141.88
			Mz	-0.58	-0.49	-0.40	-0.28	-0.15	0.01	0.18	0.35	0.52
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	5.037	5.037	5.037	5.037	5.037	5.037	5.037	5.037	5.037
			Vy	-0.482	-0.482	-0.571	-0.670	-0.770	-0.869	-0.886	-0.886	-0.886
			Vz	10.121	10.685	11.249	11.813	12.378	12.942	13.506	14.070	14.634
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	179.21	177.10	174.87	172.52	170.06	167.49	164.80	161.99	159.08
			Mz	-0.62	-0.53	-0.42	-0.29	-0.15	0.02	0.20	0.38	0.56
		PP+CM+1.05·Q+0.9·V+1.5·N	N	4.895	4.895	4.895	4.895	4.895	4.895	4.895	4.895	4.895
			Vy	-0.801	-0.801	-0.890	-0.990	-1.089	-1.189	-1.205	-1.205	-1.205
			Vz	22.877	24.521	26.165	27.809	29.452	31.096	32.740	34.384	36.028
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	426.12	421.30	416.15	410.66	404.84	398.68	392.19	385.36	378.20
			Mz	-0.90	-0.74	-0.57	-0.38	-0.16	0.07	0.31	0.56	0.80
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	4.847	4.847	4.847	4.847	4.847	4.847	4.847	4.847	4.847
			Vy	-0.854	-0.854	-0.943	-1.042	-1.142	-1.241	-1.258	-1.258	-1.258
			Vz	23.929	25.644	27.360	29.076	30.792	32.508	34.224	35.940	37.656
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	445.49	440.45	435.06	429.32	423.24	416.80	410.01	402.88	395.39
			Mz	-0.94	-0.77	-0.59	-0.39	-0.17	0.08	0.33	0.59	0.84
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	4.892	4.892	4.892	4.892	4.892	4.892	4.892	4.892	4.892
			Vy	-0.808	-0.808	-0.897	-0.997	-1.097	-1.196	-1.212	-1.212	-1.212
			Vz	23.151	24.818	26.484	28.151	29.818	31.484	33.151	34.817	36.484
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	431.40	426.52	421.30	415.75	409.85	403.62	397.04	390.13	382.88
			Mz	-0.91	-0.74	-0.57	-0.38	-0.16	0.07	0.31	0.56	0.81
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	4.844	4.844	4.844	4.844	4.844	4.844	4.844	4.844	4.844
			Vy	-0.861	-0.861	-0.950	-1.050	-1.149	-1.249	-1.265	-1.265	-1.265
			Vz	24.203	25.941	27.680	29.419	31.157	32.896	34.635	36.373	38.112
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	450.77	445.67	440.22	434.41	428.25	421.74	414.87	407.65	400.08
			Mz	-0.95	-0.78	-0.59	-0.39	-0.17	0.08	0.33	0.59	0.85
		PP+CM+1.5·Q+0.75·N	N	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717
			Vy	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955
			Vz	26.408	28.456	30.504	32.552	34.600	36.648	38.696	40.744	42.792
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	500.42	494.84	488.84	482.43	475.60	468.36	460.70	452.62	444.12
			Mz	-0.81	-0.61	-0.42	-0.23	-0.03	0.16	0.36	0.55	0.74
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765
			Vy	-1.008	-1.008	-1.008	-1.008	-1.008	-1.008	-1.008	-1.008	-1.008
			Vz	27.459	29.580	31.700	33.820	35.940	38.060	40.180	42.300	44.420
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	519.79	513.99	507.76	501.10	494.00	486.48	478.52	470.13	461.32
			Mz	-0.85	-0.65	-0.44	-0.24	-0.03	0.17	0.38	0.58	0.79
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.720	-0.720	-0.720	-0.720	-0.720	-0.720	-0.720	-0.720	-0.720
			Vy	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962	-0.962
			Vz	26.682	28.753	30.824	32.895	34.965	37.036	39.107	41.178	43.249
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	505.69	500.06	494.00	487.52	480.62	473.30	465.55	457.39	448.80
			Mz	-0.82	-0.62	-0.42	-0.23	-0.03	0.16	0.36	0.55	0.75
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.768	-0.768	-0.768	-0.768	-0.768	-0.768	-0.768	-0.768	-0.768
			Vy	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015	-1.015
			Vz	27.734	29.876	32.019	34.162	36.305	38.448	40.591	42.734	44.877
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	525.07	519.21	512.91	506.18	499.02	491.42	483.38	474.91	466.00
			Mz	-0.86	-0.65	-0.45	-0.24	-0.03	0.17	0.38	0.59	0.79
		PP+CM+1.5·V+0.75·N	N	9.269	9.269	9.269	9.269	9.269	9.269	9.269	9.269	9.269
			Vy	-0.026	-0.026	-0.175	-0.341	-0.507	-0.673	-0.700	-0.700	-0.700
			Vz	6.291	6.661	7.032	7.402	7.772	8.142	8.512	8.882	9.253
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	112.52	111.20	109.81	108.34	106.80	105.18	103.49	101.72	99.88
			Mz	-0.40	-0.39	-0.38	-0.32	-0.24	-0.12	0.02	0.17	0.31
		1.35·PP+CM+1.5·V+0.75·N	N	9.221	9.221	9.221	9.221	9.221	9.221	9.221	9.221	9.221
			Vy	-0.079	-0.079	-0.227	-0.393	-0.559	-0.725	-0.752	-0.752	-0.752
			Vz	7.343	7.785	8.227	8.669	9.112	9.554	9.996	10.438	10.881
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	131.89	130.35	128.73	127.01	125.20	123.30	121.31	119.24	117.07
			Mz	-0.44	-0.43	-0.40	-0.34	-0.24	-0.11	0.04	0.20	0.35
		PP+1.35·CM+1.5·V+0.75·N	N	9.266	9.266	9.266	9.266	9.266	9.266	9.266	9.266	9.266
			Vy	-0.034	-0.034	-0.182	-0.348	-0.514	-0.680	-0.707	-0.707	-0.707
			Vz	6.565	6.958	7.351	7.744	8.137	8.530	8.923	9.316	9.709
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	117.80	116.42	114.96	113.43	111.82	110.12	108.35	106.49	104.56
			Mz	-0.41	-0.40	-0.38	-0.33	-0.24	-0.12	0.03	0.17	0.31
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	9.218	9.218	9.218	9.218	9.218	9.218	9.218	9.218	9.218
			Vy	-0.087	-0.087	-0.235	-0.401	-0.567	-0.733	-0.760	-0.760	-0.760
			Vz	7.617	8.082	8.547	9.012	9.477	9.942	10.407	10.872	11.337
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	137.17	135.57	133.88	132.09	130.21	128.24	126.17	124.01	121.75
			Mz	-0.45	-0.43	-0.40	-0.34	-0.24	-0.11	0.05	0.20	0.36
		PP+CM+1.05·Q+1.5·V+0.75·N	N	9.076	9.076	9.076	9.076	9.076	9.076	9.076	9.076	9.076
			Vy	-0.406	-0.406	-0.554	-0.720	-0.886	-1.052	-1.079	-1.079	-1.079
			Vz	20.373	21.918	23.462	25.007	26.552	28.096	29.641	31.186	32.730
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	384.07	379.77	375.16	370.23	364.99	359.43	353.56	347.37	340.88
			Mz	-0.73	-0.64	-0.55	-0.42	-0.25	-0.06	0.16	0.38	0.60
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	9.029	9.029	9.029	9.029	9.029	9.029	9.029	9.029	9.029
			Vy	-0.459	-0.459	-0.607	-0.773	-0.939	-1.105	-1.132	-1.132	-1.132
			Vz	21.424	23.041	24.658	26.275	27.891	29.508	31.125	32.742	34.358
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	403.45	398.92	394.07	388.90	383.39	377.55	371.39	364.89	358.07
			Mz	-0.77	-0.68	-0.57	-0.43	-0.26	-0.05	0.18	0.41	0.64
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	9.074	9.074	9.074	9.074	9.074	9.074	9.074	9.074	9.074
			Vy	-0.413	-0.413	-0.562	-0.728	-0.894	-1.060	-1.087	-1.087	-1.087
			Vz	20.647	22.215	23.782	25.349	26.917	28.484	30.052	31.619	33.187
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	389.35	384.99	380.31	375.32	370.00	364.37	358.42	352.15	345.56
			Mz	-0.73	-0.65	-0.55	-0.42	-0.26	-0.06	0.16	0.38	0.61
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	9.026	9.026	9.026	9.026	9.026	9.026	9.026	9.026	9.026
			Vy	-0.466	-0.466	-0.614	-0.780	-0.946	-1.112	-1.139	-1.139	-1.139
			Vz	21.699	23.338	24.978	26.617	28.257	29.896	31.536	33.175	34.815
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	408.72	404.14	399.23	393.98	388.40	382.49	376.24	369.66	362.75
			Mz	-0.78	-0.68	-0.57	-0.43	-0.26	-0.05	0.18	0.42	0.65
		PP+CM+1.5·Q+0.9·V+0.75·N	N	5.109	5.109	5.109	5.109	5.109	5.109	5.109	5.109	5.109

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	-0.723	-0.723	-0.812	-0.912	-1.011	-1.111	-1.127	-1.127	-1.127
			Vz	26.408	28.456	30.504	32.552	34.600	36.648	38.696	40.744	42.792
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	500.44	494.86	488.87	482.45	475.62	468.38	460.72	452.64	444.15
			Mz	-0.84	-0.70	-0.54	-0.37	-0.17	0.05	0.27	0.50	0.73
			N	5.062	5.062	5.062	5.062	5.062	5.062	5.062	5.062	5.062
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	Vy	-0.776	-0.776	-0.865	-0.964	-1.064	-1.163	-1.180	-1.180	-1.180
			Vz	27.459	29.580	31.700	33.820	35.940	38.060	40.180	42.300	44.420
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	519.81	514.01	507.78	501.12	494.02	486.50	478.54	470.16	461.34
			Mz	-0.89	-0.73	-0.56	-0.38	-0.17	0.05	0.29	0.53	0.77
			N	5.107	5.107	5.107	5.107	5.107	5.107	5.107	5.107	5.107
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	Vy	-0.731	-0.731	-0.820	-0.919	-1.019	-1.118	-1.134	-1.134	-1.134
			Vz	26.682	28.753	30.824	32.895	34.965	37.036	39.107	41.178	43.249
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	505.72	500.08	494.02	487.54	480.64	473.32	465.58	457.41	448.83
			Mz	-0.85	-0.70	-0.54	-0.37	-0.17	0.05	0.28	0.51	0.74
			N	5.059	5.059	5.059	5.059	5.059	5.059	5.059	5.059	5.059
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	Vy	-0.783	-0.783	-0.872	-0.972	-1.071	-1.171	-1.187	-1.187	-1.187
			Vz	27.734	29.876	32.019	34.162	36.305	38.448	40.591	42.734	44.877
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	525.09	519.23	512.94	506.21	499.04	491.44	483.40	474.93	466.02
			Mz	-0.89	-0.73	-0.57	-0.38	-0.17	0.06	0.30	0.54	0.78

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N22/N24	Madera	PP+CM	N	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159
			Vy	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
			Vz	6.223	6.494	6.765	7.036	7.307	7.578	7.849	8.120	8.391
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	62.49	61.20	59.85	58.45	56.99	55.48	53.91	52.28	50.61
			Mz	0.13	0.10	0.07	0.04	0.01	-0.02	-0.06	-0.09	-0.12
		1.35·PP+CM	N	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210
			Vy	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
			Vz	7.945	8.288	8.631	8.974	9.317	9.660	10.003	10.346	10.689
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	79.69	78.04	76.32	74.52	72.66	70.74	68.74	66.67	64.53
			Mz	0.18	0.13	0.09	0.05	0.01	-0.03	-0.07	-0.11	-0.16
		PP+1.35·CM	N	-0.163	-0.163	-0.163	-0.163	-0.163	-0.163	-0.163	-0.163	-0.163
			Vy	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
			Vz	6.680	6.974	7.267	7.561	7.855	8.149	8.443	8.736	9.030
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	67.18	65.79	64.34	62.83	61.26	59.64	57.95	56.20	54.40
			Mz	0.14	0.11	0.07	0.04	0.01	-0.02	-0.06	-0.09	-0.12
		1.35·PP+1.35·CM	N	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214
			Vy	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
			Vz	8.401	8.767	9.133	9.499	9.865	10.231	10.597	10.962	11.328
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	84.37	82.62	80.80	78.91	76.94	74.89	72.78	70.58	68.32
			Mz	0.18	0.14	0.10	0.05	0.01	-0.03	-0.07	-0.12	-0.16
		PP+CM+1.5·Q	N	-0.416	-0.416	-0.416	-0.416	-0.416	-0.416	-0.416	-0.416	-0.416
			Vy	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616
			Vz	39.760	41.709	43.658	45.607	47.556	49.505	51.453	53.402	55.351
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	406.77	398.49	389.81	380.73	371.26	361.39	351.12	340.46	329.40

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.55	0.42	0.30	0.17	0.05	-0.08	-0.20	-0.33	-0.45
		1.35·PP+CM+1.5·Q	N	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467
			Vy	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
			Vz	41.482	43.503	45.524	47.545	49.566	51.586	53.607	55.628	57.649
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	423.96	415.32	406.27	396.81	386.93	376.64	365.95	354.84	343.32
			Mz	0.59	0.46	0.32	0.19	0.05	-0.08	-0.22	-0.35	-0.49
		PP+1.35·CM+1.5·Q	N	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421
			Vy	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
			Vz	40.217	42.189	44.160	46.132	48.104	50.075	52.047	54.018	55.990
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	411.45	403.07	394.29	385.11	375.53	365.55	355.16	344.38	333.19
			Mz	0.55	0.43	0.30	0.18	0.05	-0.08	-0.20	-0.33	-0.46
		1.35·PP+1.35·CM+1.5·Q	N	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472
			Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
			Vz	41.938	43.982	46.026	48.070	50.113	52.157	54.201	56.244	58.288
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	428.64	419.91	410.76	401.19	391.20	380.80	369.99	358.76	347.11
			Mz	0.60	0.46	0.32	0.19	0.05	-0.09	-0.22	-0.36	-0.49
		PP+CM+1.5·V	N	7.038	7.038	7.038	7.038	7.038	7.038	7.038	7.038	7.038
			Vy	0.500	0.500	0.352	0.186	0.020	-0.146	-0.173	-0.173	-0.173
			Vz	6.223	6.494	6.765	7.036	7.307	7.578	7.849	8.120	8.391
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	62.44	61.15	59.80	58.40	56.94	55.43	53.86	52.23	50.56
			Mz	0.06	-0.04	-0.13	-0.18	-0.21	-0.19	-0.16	-0.12	-0.09
		1.35·PP+CM+1.5·V	N	6.987	6.987	6.987	6.987	6.987	6.987	6.987	6.987	6.987
			Vy	0.548	0.548	0.400	0.234	0.068	-0.098	-0.125	-0.125	-0.125
			Vz	7.945	8.288	8.631	8.974	9.317	9.660	10.003	10.346	10.689
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	79.64	77.99	76.26	74.47	72.61	70.69	68.69	66.62	64.48
			Mz	0.10	-0.01	-0.11	-0.17	-0.20	-0.20	-0.18	-0.15	-0.12
		PP+1.35·CM+1.5·V	N	7.033	7.033	7.033	7.033	7.033	7.033	7.033	7.033	7.033
			Vy	0.506	0.506	0.358	0.192	0.026	-0.140	-0.167	-0.167	-0.167
			Vz	6.680	6.974	7.267	7.561	7.855	8.149	8.443	8.736	9.030
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	67.12	65.74	64.29	62.78	61.21	59.59	57.90	56.15	54.35
			Mz	0.07	-0.04	-0.13	-0.18	-0.21	-0.19	-0.16	-0.13	-0.09
		1.35·PP+1.35·CM+1.5·V	N	6.982	6.982	6.982	6.982	6.982	6.982	6.982	6.982	6.982
			Vy	0.555	0.555	0.406	0.240	0.075	-0.091	-0.118	-0.118	-0.118
			Vz	8.401	8.767	9.133	9.499	9.865	10.231	10.597	10.962	11.328
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	84.32	82.57	80.75	78.86	76.89	74.84	72.73	70.53	68.27
			Mz	0.11	-0.01	-0.11	-0.17	-0.20	-0.20	-0.18	-0.15	-0.13
		PP+CM+1.05·Q+1.5·V	N	6.858	6.858	6.858	6.858	6.858	6.858	6.858	6.858	6.858
			Vy	0.822	0.822	0.674	0.508	0.342	0.176	0.149	0.149	0.149
			Vz	29.699	31.145	32.590	34.036	35.481	36.927	38.372	39.818	41.263
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	303.44	297.25	290.77	284.00	276.93	269.56	261.91	253.96	245.71
			Mz	0.35	0.18	0.03	-0.09	-0.18	-0.23	-0.26	-0.29	-0.32
		1.35·PP+CM+1.05·Q+1.5·V	N	6.807	6.807	6.807	6.807	6.807	6.807	6.807	6.807	6.807
			Vy	0.870	0.870	0.722	0.556	0.390	0.224	0.197	0.197	0.197
			Vz	31.421	32.938	34.456	35.973	37.491	39.009	40.526	42.044	43.561
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	320.63	314.09	307.23	300.07	292.60	284.82	276.73	268.34	259.63
			Mz	0.39	0.21	0.05	-0.08	-0.18	-0.24	-0.28	-0.32	-0.36
		PP+1.35·CM+1.05·Q+1.5·V	N	6.853	6.853	6.853	6.853	6.853	6.853	6.853	6.853	6.853
			Vy	0.828	0.828	0.680	0.514	0.348	0.182	0.155	0.155	0.155

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m	
			Vz	30.156	31.624	33.092	34.561	36.029	37.497	38.966	40.434	41.902	
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	308.12	301.84	295.26	288.38	281.20	273.72	265.95	257.87	249.50	
			Mz	0.36	0.19	0.03	-0.09	-0.18	-0.23	-0.26	-0.29	-0.33	
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	6.802	6.802	6.802	6.802	6.802	6.802	6.802	6.802	6.802	6.802
			Vy	0.877	0.877	0.728	0.562	0.396	0.230	0.203	0.203	0.203	0.203
			Vz	31.877	33.418	34.958	36.498	38.039	39.579	41.119	42.660	44.200	
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	325.31	318.67	311.72	304.45	296.87	288.98	280.77	272.26	263.42	
			Mz	0.40	0.22	0.05	-0.08	-0.17	-0.24	-0.28	-0.32	-0.36	
		PP+CM+1.5-Q+0.9-V	N	3.902	3.902	3.902	3.902	3.902	3.902	3.902	3.902	3.902	3.902
			Vy	0.822	0.822	0.733	0.634	0.534	0.434	0.418	0.418	0.418	0.418
			Vz	39.760	41.709	43.658	45.607	47.556	49.505	51.453	53.402	55.351	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	406.74	398.46	389.78	380.70	371.23	361.36	351.09	340.43	329.37	
			Mz	0.50	0.34	0.18	0.04	-0.08	-0.18	-0.26	-0.35	-0.43	
		1.35-PP+CM+1.5-Q+0.9-V	N	3.851	3.851	3.851	3.851	3.851	3.851	3.851	3.851	3.851	3.851
			Vy	0.870	0.870	0.781	0.682	0.582	0.483	0.467	0.467	0.467	0.467
			Vz	41.482	43.503	45.524	47.545	49.566	51.586	53.607	55.628	57.649	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	423.93	415.29	406.24	396.78	386.90	376.61	365.92	354.81	343.29	
			Mz	0.55	0.37	0.20	0.05	-0.08	-0.19	-0.28	-0.38	-0.47	
		PP+1.35-CM+1.5-Q+0.9-V	N	3.897	3.897	3.897	3.897	3.897	3.897	3.897	3.897	3.897	3.897
			Vy	0.829	0.829	0.740	0.640	0.540	0.441	0.425	0.425	0.425	0.425
			Vz	40.217	42.189	44.160	46.132	48.104	50.075	52.047	54.018	55.990	
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	411.42	403.04	394.26	385.08	375.50	365.52	355.13	344.35	333.16	
			Mz	0.51	0.34	0.18	0.04	-0.08	-0.18	-0.27	-0.35	-0.44	
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	3.846	3.846	3.846	3.846	3.846	3.846	3.846	3.846	3.846	3.846
			Vy	0.877	0.877	0.788	0.688	0.589	0.489	0.473	0.473	0.473	0.473
			Vz	41.938	43.982	46.026	48.070	50.113	52.157	54.201	56.244	58.288	
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	428.61	419.88	410.73	401.16	391.17	380.77	369.96	358.73	347.08	
			Mz	0.55	0.37	0.20	0.05	-0.08	-0.19	-0.28	-0.38	-0.48	
		PP+CM+1.5-N	N	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816
			Vy	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618
			Vz	14.134	14.603	15.072	15.541	16.011	16.480	16.949	17.419	17.888	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	137.17	134.25	131.23	128.12	124.91	121.61	118.21	114.71	111.12	
			Mz	0.52	0.40	0.27	0.14	0.02	-0.11	-0.23	-0.36	-0.48	
		1.35-PP+CM+1.5-N	N	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867
			Vy	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
			Vz	15.855	16.396	16.938	17.479	18.021	18.562	19.103	19.645	20.186	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	154.37	151.09	147.70	144.20	140.59	136.87	133.04	129.10	125.05	
			Mz	0.56	0.43	0.29	0.16	0.02	-0.12	-0.25	-0.39	-0.52	
		PP+1.35-CM+1.5-N	N	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821
			Vy	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
			Vz	14.590	15.082	15.574	16.066	16.559	17.051	17.543	18.035	18.527	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	141.85	138.84	135.72	132.50	129.18	125.77	122.25	118.63	114.91	
			Mz	0.53	0.40	0.27	0.15	0.02	-0.11	-0.24	-0.36	-0.49	
		1.35-PP+1.35-CM+1.5-N	N	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872
			Vy	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
			Vz	16.312	16.876	17.440	18.004	18.568	19.132	19.697	20.261	20.825	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	159.05	155.67	152.18	148.58	144.86	141.03	137.08	133.01	128.84	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.57	0.43	0.29	0.16	0.02	-0.12	-0.25	-0.39	-0.53
		PP+CM+1.05·Q+1.5·N	N	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996
			Vy	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940
			Vz	37.610	39.253	40.897	42.541	44.185	45.829	47.472	49.116	50.760
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	378.17	370.35	362.20	353.72	344.90	335.75	326.26	316.44	306.28
			Mz	0.81	0.62	0.43	0.24	0.05	-0.15	-0.34	-0.53	-0.72
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047	-1.047
			Vy	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988
			Vz	39.331	41.047	42.763	44.479	46.194	47.910	49.626	51.342	53.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	395.36	387.19	378.66	369.79	360.57	351.00	341.09	330.82	320.20
			Mz	0.85	0.65	0.45	0.25	0.05	-0.15	-0.35	-0.55	-0.76
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.001	-1.001	-1.001	-1.001	-1.001	-1.001	-1.001	-1.001	-1.001
			Vy	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946
			Vz	38.066	39.733	41.399	43.066	44.732	46.399	48.066	49.732	51.399
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	382.85	374.94	366.69	358.10	349.17	339.90	330.30	320.35	310.07
			Mz	0.82	0.62	0.43	0.24	0.05	-0.15	-0.34	-0.53	-0.72
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052
			Vy	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995
			Vz	39.788	41.526	43.265	45.004	46.742	48.481	50.220	51.958	53.697
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	400.04	391.77	383.15	374.17	364.85	355.16	345.13	334.74	323.99
			Mz	0.86	0.66	0.45	0.25	0.05	-0.15	-0.36	-0.56	-0.76
		PP+CM+0.9·V+1.5·N	N	3.502	3.502	3.502	3.502	3.502	3.502	3.502	3.502	3.502
			Vy	0.825	0.825	0.736	0.636	0.537	0.437	0.421	0.421	0.421
			Vz	14.134	14.603	15.072	15.541	16.011	16.480	16.949	17.419	17.888
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	137.14	134.22	131.20	128.09	124.88	121.58	118.18	114.68	111.09
			Mz	0.48	0.31	0.15	0.01	-0.11	-0.21	-0.30	-0.38	-0.47
		1.35·PP+CM+0.9·V+1.5·N	N	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451
			Vy	0.873	0.873	0.784	0.684	0.585	0.485	0.469	0.469	0.469
			Vz	15.855	16.396	16.938	17.479	18.021	18.562	19.103	19.645	20.186
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	154.34	151.06	147.67	144.17	140.56	136.84	133.01	129.07	125.02
			Mz	0.52	0.34	0.17	0.02	-0.11	-0.22	-0.31	-0.41	-0.50
		PP+1.35·CM+0.9·V+1.5·N	N	3.497	3.497	3.497	3.497	3.497	3.497	3.497	3.497	3.497
			Vy	0.831	0.831	0.742	0.643	0.543	0.443	0.427	0.427	0.427
			Vz	14.590	15.082	15.574	16.066	16.559	17.051	17.543	18.035	18.527
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	141.82	138.81	135.69	132.47	129.15	125.74	122.22	118.60	114.88
			Mz	0.48	0.31	0.15	0.01	-0.11	-0.21	-0.30	-0.38	-0.47
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	3.446	3.446	3.446	3.446	3.446	3.446	3.446	3.446	3.446
			Vy	0.879	0.879	0.790	0.691	0.591	0.492	0.475	0.475	0.475
			Vz	16.312	16.876	17.440	18.004	18.568	19.132	19.697	20.261	20.825
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	159.02	155.64	152.15	148.55	144.83	141.00	137.05	132.98	128.81
			Mz	0.52	0.34	0.17	0.02	-0.11	-0.22	-0.31	-0.41	-0.51
		PP+CM+1.05·Q+0.9·V+1.5·N	N	3.322	3.322	3.322	3.322	3.322	3.322	3.322	3.322	3.322
			Vy	1.147	1.147	1.058	0.958	0.858	0.759	0.743	0.743	0.743
			Vz	37.610	39.253	40.897	42.541	44.185	45.829	47.472	49.116	50.760
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	378.14	370.32	362.17	353.69	344.87	335.72	326.23	316.41	306.25
			Mz	0.77	0.53	0.31	0.10	-0.08	-0.25	-0.40	-0.55	-0.70
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	3.271	3.271	3.271	3.271	3.271	3.271	3.271	3.271	3.271
			Vy	1.195	1.195	1.106	1.006	0.907	0.807	0.791	0.791	0.791

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m	
			Vz	39.331	41.047	42.763	44.479	46.194	47.910	49.626	51.342	53.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	395.33	387.16	378.63	369.76	360.54	350.97	341.06	330.79	320.17	320.17
			Mz	0.81	0.56	0.33	0.11	-0.08	-0.25	-0.42	-0.58	-0.74	-0.74
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	3.317	3.317	3.317	3.317	3.317	3.317	3.317	3.317	3.317	3.317
			Vy	1.153	1.153	1.064	0.964	0.865	0.765	0.749	0.749	0.749	0.749
			Vz	38.066	39.733	41.399	43.066	44.732	46.399	48.066	49.732	51.399	51.399
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	382.82	374.91	366.66	358.07	349.14	339.87	330.27	320.32	310.04	310.04
			Mz	0.77	0.54	0.31	0.10	-0.08	-0.25	-0.40	-0.55	-0.70	-0.70
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	3.266	3.266	3.266	3.266	3.266	3.266	3.266	3.266	3.266	3.266
			Vy	1.201	1.201	1.112	1.013	0.913	0.813	0.797	0.797	0.797	0.797
			Vz	39.788	41.526	43.265	45.004	46.742	48.481	50.220	51.958	53.697	53.697
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	400.01	391.74	383.12	374.14	364.81	355.13	345.10	334.71	323.96	323.96
			Mz	0.81	0.57	0.33	0.12	-0.08	-0.25	-0.42	-0.58	-0.74	-0.74
		PP+CM+1.5·Q+0.75·N	N	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
			Vy	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847
			Vz	43.715	45.763	47.811	49.860	51.908	53.956	56.004	58.052	60.100	60.100
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	444.11	435.01	425.50	415.57	405.22	394.45	383.27	371.67	359.66	359.66
			Mz	0.74	0.57	0.40	0.23	0.05	-0.12	-0.29	-0.46	-0.64	-0.64
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.796	-0.796	-0.796	-0.796	-0.796	-0.796	-0.796	-0.796	-0.796	-0.796
			Vy	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895	0.895
			Vz	45.437	47.557	49.677	51.797	53.917	56.037	58.157	60.278	62.398	62.398
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	461.30	451.85	441.96	431.64	420.89	409.71	398.10	386.05	373.58	373.58
			Mz	0.78	0.60	0.42	0.24	0.06	-0.13	-0.31	-0.49	-0.67	-0.67
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.750	-0.750	-0.750	-0.750	-0.750	-0.750	-0.750	-0.750	-0.750	-0.750
			Vy	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
			Vz	44.172	46.243	48.314	50.384	52.455	54.526	56.597	58.668	60.738	60.738
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	448.79	439.60	429.98	419.95	409.49	398.61	387.31	375.59	363.45	363.45
			Mz	0.75	0.57	0.40	0.23	0.05	-0.12	-0.29	-0.47	-0.64	-0.64
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800	-0.800
			Vy	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901	0.901
			Vz	45.894	48.036	50.179	52.322	54.465	56.608	58.751	60.894	63.037	63.037
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	465.98	456.43	446.45	436.02	425.16	413.87	402.14	389.97	377.37	377.37
			Mz	0.79	0.61	0.42	0.24	0.06	-0.13	-0.31	-0.49	-0.68	-0.68
		PP+CM+1.5·V+0.75·N	N	6.709	6.709	6.709	6.709	6.709	6.709	6.709	6.709	6.709	6.709
			Vy	0.731	0.731	0.583	0.417	0.251	0.085	0.058	0.058	0.058	0.058
			Vz	10.178	10.548	10.919	11.289	11.659	12.029	12.399	12.770	13.140	13.140
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	99.78	97.68	95.49	93.23	90.90	88.49	86.01	83.45	80.81	80.81
			Mz	0.25	0.10	-0.03	-0.13	-0.20	-0.23	-0.25	-0.26	-0.27	-0.27
		1.35·PP+CM+1.5·V+0.75·N	N	6.658	6.658	6.658	6.658	6.658	6.658	6.658	6.658	6.658	6.658
			Vy	0.780	0.780	0.631	0.465	0.299	0.133	0.106	0.106	0.106	0.106
			Vz	11.900	12.342	12.784	13.227	13.669	14.111	14.553	14.996	15.438	15.438
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	116.98	114.51	111.96	109.31	106.58	103.75	100.84	97.83	94.74	94.74
			Mz	0.29	0.14	-0.01	-0.12	-0.20	-0.24	-0.26	-0.29	-0.31	-0.31
		PP+1.35·CM+1.5·V+0.75·N	N	6.705	6.705	6.705	6.705	6.705	6.705	6.705	6.705	6.705	6.705
			Vy	0.738	0.738	0.589	0.423	0.257	0.091	0.064	0.064	0.064	0.064
			Vz	10.635	11.028	11.421	11.814	12.207	12.600	12.993	13.386	13.779	13.779
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	104.46	102.26	99.98	97.62	95.17	92.65	90.05	87.37	84.60	84.60

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mz	0.26	0.11	-0.03	-0.13	-0.20	-0.24	-0.25	-0.26	-0.28
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	6.654	6.654	6.654	6.654	6.654	6.654	6.654	6.654	6.654
			Vy	0.786	0.786	0.638	0.472	0.306	0.140	0.113	0.113	0.113
			Vz	12.356	12.821	13.286	13.752	14.217	14.682	15.147	15.612	16.077
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	121.66	119.10	116.44	113.69	110.85	107.91	104.88	101.75	98.53
			Mz	0.30	0.14	-0.01	-0.12	-0.20	-0.24	-0.27	-0.29	-0.31
		PP+CM+1.05·Q+1.5·V+0.75·N	N	6.529	6.529	6.529	6.529	6.529	6.529	6.529	6.529	6.529
			Vy	1.053	1.053	0.905	0.739	0.573	0.407	0.380	0.380	0.380
			Vz	33.654	35.199	36.744	38.288	39.833	41.378	42.922	44.467	46.012
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	340.78	333.78	326.46	318.83	310.89	302.63	294.06	285.17	275.97
			Mz	0.54	0.33	0.13	-0.04	-0.17	-0.27	-0.35	-0.43	-0.50
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	6.478	6.478	6.478	6.478	6.478	6.478	6.478	6.478	6.478
			Vy	1.101	1.101	0.953	0.787	0.621	0.455	0.428	0.428	0.428
			Vz	35.376	36.993	38.609	40.226	41.843	43.459	45.076	46.693	48.310
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	357.97	350.61	342.92	334.91	326.56	317.89	308.88	299.55	289.89
			Mz	0.58	0.36	0.15	-0.03	-0.17	-0.28	-0.37	-0.45	-0.54
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	6.524	6.524	6.524	6.524	6.524	6.524	6.524	6.524	6.524
			Vy	1.059	1.059	0.911	0.745	0.579	0.413	0.386	0.386	0.386
			Vz	34.111	35.678	37.246	38.813	40.381	41.948	43.516	45.083	46.650
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	345.46	338.36	330.95	323.21	315.16	306.79	298.10	289.09	279.76
			Mz	0.55	0.33	0.13	-0.04	-0.17	-0.27	-0.35	-0.43	-0.51
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	6.473	6.473	6.473	6.473	6.473	6.473	6.473	6.473	6.473
			Vy	1.108	1.108	0.959	0.793	0.627	0.462	0.434	0.434	0.434
			Vz	35.832	37.472	39.111	40.751	42.391	44.030	45.670	47.309	48.949
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	362.65	355.20	347.41	339.29	330.83	322.05	312.92	303.47	293.68
			Mz	0.59	0.36	0.15	-0.03	-0.17	-0.28	-0.37	-0.46	-0.55
		PP+CM+1.5·Q+0.9·V+0.75·N	N	3.573	3.573	3.573	3.573	3.573	3.573	3.573	3.573	3.573
			Vy	1.053	1.053	0.964	0.865	0.765	0.666	0.649	0.649	0.649
			Vz	43.715	45.763	47.811	49.860	51.908	53.956	56.004	58.052	60.100
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	444.08	434.98	425.47	415.54	405.19	394.42	383.24	371.64	359.63
			Mz	0.70	0.48	0.28	0.09	-0.07	-0.22	-0.35	-0.48	-0.62
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	3.522	3.522	3.522	3.522	3.522	3.522	3.522	3.522	3.522
			Vy	1.102	1.102	1.013	0.913	0.813	0.714	0.698	0.698	0.698
			Vz	45.437	47.557	49.677	51.797	53.917	56.037	58.157	60.278	62.398
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	461.27	451.82	441.93	431.61	420.86	409.68	398.07	386.02	373.55
			Mz	0.74	0.51	0.30	0.10	-0.07	-0.23	-0.37	-0.51	-0.65
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	3.568	3.568	3.568	3.568	3.568	3.568	3.568	3.568	3.568
			Vy	1.060	1.060	0.971	0.871	0.772	0.672	0.656	0.656	0.656
			Vz	44.172	46.243	48.314	50.384	52.455	54.526	56.597	58.668	60.738
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	448.76	439.57	429.95	419.92	409.46	398.58	387.28	375.56	363.42
			Mz	0.70	0.49	0.28	0.09	-0.07	-0.22	-0.35	-0.49	-0.62
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	3.517	3.517	3.517	3.517	3.517	3.517	3.517	3.517	3.517
			Vy	1.108	1.108	1.019	0.919	0.820	0.720	0.704	0.704	0.704
			Vz	45.894	48.036	50.179	52.322	54.465	56.608	58.751	60.894	63.037
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	465.95	456.40	446.42	435.99	425.13	413.84	402.11	389.94	377.34
			Mz	0.74	0.52	0.30	0.10	-0.07	-0.23	-0.37	-0.52	-0.66

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N24/N26	Madera	PP+CM	N	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183
			Vy	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
			Vz	8.659	8.930	9.201	9.472	9.743	10.014	10.285	10.556	10.827
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	50.60	48.82	46.97	45.07	43.12	41.11	39.05	36.93	34.75
			Mz	-0.12	-0.09	-0.06	-0.04	-0.01	0.02	0.04	0.07	0.10
		1.35·PP+CM	N	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244
			Vy	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
			Vz	11.050	11.393	11.737	12.080	12.423	12.766	13.109	13.452	13.795
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	64.53	62.24	59.89	57.47	54.98	52.42	49.79	47.08	44.31
			Mz	-0.16	-0.12	-0.08	-0.05	-0.01	0.02	0.06	0.09	0.13
		PP+1.35·CM	N	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187
			Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
			Vz	9.298	9.592	9.885	10.179	10.473	10.767	11.061	11.354	11.648
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	54.39	52.47	50.49	48.45	46.35	44.19	41.97	39.69	37.35
			Mz	-0.12	-0.10	-0.07	-0.04	-0.01	0.02	0.04	0.07	0.10
		1.35·PP+1.35·CM	N	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248
			Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vz	11.689	12.055	12.421	12.787	13.153	13.519	13.885	14.250	14.616
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	68.32	65.90	63.41	60.85	58.21	55.50	52.71	49.85	46.92
			Mz	-0.16	-0.12	-0.09	-0.05	-0.01	0.02	0.06	0.10	0.13
		PP+CM+1.5·Q	N	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541
			Vy	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479	-0.479
			Vz	55.616	57.565	59.514	61.463	63.412	65.361	67.309	69.258	71.207
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	329.39	317.88	305.97	293.67	280.97	267.88	254.39	240.50	226.22
			Mz	-0.45	-0.36	-0.26	-0.16	-0.06	0.03	0.13	0.23	0.33
		1.35·PP+CM+1.5·Q	N	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602
			Vy	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521
			Vz	58.008	60.029	62.050	64.071	66.092	68.112	70.133	72.154	74.175
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	343.31	331.31	318.89	306.07	292.83	279.19	265.13	250.66	235.78
			Mz	-0.49	-0.38	-0.28	-0.17	-0.07	0.04	0.15	0.25	0.36
		PP+1.35·CM+1.5·Q	N	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545
			Vy	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484
			Vz	56.255	58.227	60.198	62.170	64.142	66.113	68.085	70.057	72.028
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	333.18	321.54	309.50	297.05	284.21	270.96	257.32	243.27	228.82
			Mz	-0.46	-0.36	-0.26	-0.16	-0.06	0.03	0.13	0.23	0.33
		1.35·PP+1.35·CM+1.5·Q	N	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606
			Vy	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526
			Vz	58.647	60.690	62.734	64.778	66.822	68.865	70.909	72.953	74.997
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	347.10	334.97	322.41	309.45	296.07	282.27	268.06	253.43	238.38
			Mz	-0.49	-0.39	-0.28	-0.17	-0.07	0.04	0.15	0.25	0.36
		PP+CM+1.5·V	N	3.701	3.701	3.701	3.701	3.701	3.701	3.701	3.701	3.701
			Vy	0.210	0.210	0.061	-0.105	-0.271	-0.437	-0.464	-0.464	-0.464
			Vz	8.659	8.930	9.201	9.472	9.743	10.014	10.285	10.556	10.827
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	50.67	48.88	47.04	45.14	43.18	41.18	39.11	36.99	34.82
			Mz	-0.16	-0.20	-0.23	-0.23	-0.19	-0.12	-0.02	0.07	0.17
		1.35·PP+CM+1.5·V	N	3.641	3.641	3.641	3.641	3.641	3.641	3.641	3.641	3.641
			Vy	0.168	0.168	0.019	-0.147	-0.313	-0.479	-0.506	-0.506	-0.506
			Vz	11.050	11.393	11.737	12.080	12.423	12.766	13.109	13.452	13.795

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	64.59	62.31	59.96	57.53	55.04	52.48	49.85	47.15	44.38
			Mz	-0.20	-0.23	-0.25	-0.24	-0.19	-0.11	-0.01	0.09	0.20
		PP+1.35·CM+1.5·V	N	3.698	3.698	3.698	3.698	3.698	3.698	3.698	3.698	3.698
			Vy	0.205	0.205	0.057	-0.109	-0.275	-0.441	-0.468	-0.468	-0.468
			Vz	9.298	9.592	9.885	10.179	10.473	10.767	11.061	11.354	11.648
			Mt	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
			My	54.46	52.54	50.56	48.52	46.42	44.26	42.04	39.76	37.42
			Mz	-0.16	-0.21	-0.23	-0.23	-0.19	-0.12	-0.02	0.07	0.17
		1.35·PP+1.35·CM+1.5·V	N	3.637	3.637	3.637	3.637	3.637	3.637	3.637	3.637	3.637
			Vy	0.163	0.163	0.015	-0.151	-0.317	-0.483	-0.510	-0.510	-0.510
			Vz	11.689	12.055	12.421	12.787	13.153	13.519	13.885	14.250	14.616
			Mt	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
			My	68.38	65.97	63.48	60.91	58.28	55.56	52.78	49.92	46.98
			Mz	-0.20	-0.23	-0.25	-0.24	-0.19	-0.11	-0.01	0.10	0.20
		PP+CM+1.05·Q+1.5·V	N	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451
			Vy	-0.032	-0.032	-0.181	-0.347	-0.513	-0.679	-0.706	-0.706	-0.706
			Vz	41.529	42.974	44.420	45.865	47.311	48.757	50.202	51.648	53.093
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	245.82	237.23	228.34	219.16	209.68	199.91	189.85	179.50	168.84
			Mz	-0.39	-0.39	-0.37	-0.31	-0.23	-0.10	0.04	0.18	0.33
		1.35·PP+CM+1.05·Q+1.5·V	N	3.390	3.390	3.390	3.390	3.390	3.390	3.390	3.390	3.390
			Vy	-0.074	-0.074	-0.223	-0.389	-0.555	-0.720	-0.748	-0.748	-0.748
			Vz	43.921	45.438	46.956	48.473	49.991	51.508	53.026	54.544	56.061
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	259.74	250.65	241.26	231.55	221.54	211.22	200.59	189.65	178.41
			Mz	-0.43	-0.41	-0.39	-0.32	-0.23	-0.10	0.05	0.20	0.36
		PP+1.35·CM+1.05·Q+1.5·V	N	3.447	3.447	3.447	3.447	3.447	3.447	3.447	3.447	3.447
			Vy	-0.037	-0.037	-0.185	-0.351	-0.517	-0.683	-0.710	-0.710	-0.710
			Vz	42.168	43.636	45.105	46.573	48.041	49.509	50.978	52.446	53.914
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	249.61	240.88	231.86	222.54	212.92	203.00	192.78	182.26	171.45
			Mz	-0.40	-0.39	-0.37	-0.31	-0.23	-0.10	0.04	0.18	0.33
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	3.386	3.386	3.386	3.386	3.386	3.386	3.386	3.386	3.386
			Vy	-0.079	-0.079	-0.227	-0.393	-0.559	-0.725	-0.752	-0.752	-0.752
			Vz	44.560	46.100	47.640	49.181	50.721	52.261	53.802	55.342	56.882
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	263.53	254.31	244.78	234.93	224.77	214.30	203.52	192.42	181.01
			Mz	-0.43	-0.42	-0.39	-0.33	-0.23	-0.10	0.05	0.21	0.36
		PP+CM+1.5·Q+0.9·V	N	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789
			Vy	-0.273	-0.273	-0.362	-0.462	-0.561	-0.661	-0.677	-0.677	-0.677
			Vz	55.616	57.565	59.514	61.463	63.412	65.361	67.309	69.258	71.207
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	329.43	317.92	306.01	293.71	281.01	267.92	254.43	240.54	226.26
			Mz	-0.48	-0.42	-0.36	-0.27	-0.17	-0.05	0.09	0.23	0.37
		1.35·PP+CM+1.5·Q+0.9·V	N	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729
			Vy	-0.315	-0.315	-0.404	-0.504	-0.603	-0.703	-0.719	-0.719	-0.719
			Vz	58.008	60.029	62.050	64.071	66.092	68.112	70.133	72.154	74.175
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	343.35	331.35	318.93	306.11	292.87	279.23	265.17	250.70	235.82
			Mz	-0.51	-0.45	-0.38	-0.29	-0.17	-0.04	0.11	0.25	0.40
		PP+1.35·CM+1.5·Q+0.9·V	N	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786
			Vy	-0.278	-0.278	-0.367	-0.466	-0.566	-0.666	-0.682	-0.682	-0.682
			Vz	56.255	58.227	60.198	62.170	64.142	66.113	68.085	70.057	72.028
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	333.22	321.58	309.53	297.09	284.25	271.00	257.36	243.31	228.86
			Mz	-0.48	-0.42	-0.36	-0.28	-0.17	-0.05	0.09	0.23	0.37

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	1.725	1.725	1.725	1.725	1.725	1.725	1.725	1.725	1.725
			Vy	-0.320	-0.320	-0.409	-0.508	-0.608	-0.708	-0.724	-0.724	-0.724
			Vz	58.647	60.690	62.734	64.778	66.822	68.865	70.909	72.953	74.997
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	347.14	335.00	322.45	309.49	296.11	282.31	268.09	253.47	238.42
			Mz	-0.52	-0.45	-0.38	-0.29	-0.17	-0.04	0.11	0.25	0.40
		PP+CM+1.5-N	N	-0.929	-0.929	-0.929	-0.929	-0.929	-0.929	-0.929	-0.929	-0.929
			Vy	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572
			Vz	19.471	19.940	20.410	20.879	21.348	21.818	22.287	22.756	23.226
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	111.12	107.12	103.01	98.81	94.52	90.13	85.65	81.07	76.39
			Mz	-0.49	-0.37	-0.25	-0.14	-0.02	0.09	0.21	0.33	0.44
		1.35-PP+CM+1.5-N	N	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989
			Vy	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614
			Vz	21.863	22.404	22.946	23.487	24.028	24.570	25.111	25.653	26.194
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	125.05	120.54	115.93	111.21	106.38	101.44	96.39	91.22	85.95
			Mz	-0.52	-0.40	-0.27	-0.15	-0.02	0.10	0.23	0.35	0.48
		PP+1.35-CM+1.5-N	N	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932	-0.932
			Vy	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577
			Vz	20.110	20.602	21.094	21.586	22.079	22.571	23.063	23.555	24.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	114.91	110.77	106.53	102.19	97.75	93.21	88.57	83.83	78.99
			Mz	-0.49	-0.37	-0.26	-0.14	-0.02	0.09	0.21	0.33	0.45
		1.35-PP+1.35-CM+1.5-N	N	-0.993	-0.993	-0.993	-0.993	-0.993	-0.993	-0.993	-0.993	-0.993
			Vy	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619
			Vz	22.502	23.066	23.630	24.194	24.758	25.323	25.887	26.451	27.015
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	128.83	124.20	119.45	114.59	109.61	104.52	99.31	93.99	88.55
			Mz	-0.53	-0.40	-0.28	-0.15	-0.02	0.10	0.23	0.35	0.48
		PP+CM+1.05-Q+1.5-N	N	-1.179	-1.179	-1.179	-1.179	-1.179	-1.179	-1.179	-1.179	-1.179
			Vy	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814
			Vz	52.341	53.985	55.629	57.273	58.917	60.560	62.204	63.848	65.492
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	306.27	295.46	284.31	272.83	261.02	248.87	236.39	223.57	210.42
			Mz	-0.72	-0.55	-0.39	-0.22	-0.06	0.11	0.27	0.44	0.60
		1.35-PP+CM+1.05-Q+1.5-N	N	-1.240	-1.240	-1.240	-1.240	-1.240	-1.240	-1.240	-1.240	-1.240
			Vy	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856
			Vz	54.733	56.449	58.165	59.881	61.597	63.312	65.028	66.744	68.460
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	320.19	308.89	297.23	285.23	272.88	260.18	247.13	233.73	219.98
			Mz	-0.76	-0.58	-0.41	-0.23	-0.06	0.11	0.29	0.46	0.64
		PP+1.35-CM+1.05-Q+1.5-N	N	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183
			Vy	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819
			Vz	52.980	54.647	56.314	57.980	59.647	61.313	62.980	64.646	66.313
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	310.06	299.12	287.83	276.21	264.25	251.95	239.31	226.33	213.02
			Mz	-0.72	-0.56	-0.39	-0.23	-0.06	0.11	0.27	0.44	0.61
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243
			Vy	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861	-0.861
			Vz	55.372	57.111	58.849	60.588	62.327	64.065	65.804	67.543	69.281
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	323.98	312.55	300.75	288.61	276.11	263.26	250.05	236.49	222.58
			Mz	-0.76	-0.59	-0.41	-0.24	-0.06	0.11	0.29	0.46	0.64
		PP+CM+0.9-V+1.5-N	N	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402
			Vy	-0.366	-0.366	-0.455	-0.555	-0.655	-0.754	-0.770	-0.770	-0.770
			Vz	19.471	19.940	20.410	20.879	21.348	21.818	22.287	22.756	23.226

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	111.16	107.15	103.05	98.85	94.56	90.17	85.68	81.10	76.43
			Mz	-0.51	-0.44	-0.35	-0.25	-0.13	0.01	0.17	0.33	0.49
		1.35-PP+CM+0.9-V+1.5-N	N	1.342	1.342	1.342	1.342	1.342	1.342	1.342	1.342	1.342
			Vy	-0.408	-0.408	-0.497	-0.597	-0.697	-0.796	-0.812	-0.812	-0.812
			Vz	21.863	22.404	22.946	23.487	24.028	24.570	25.111	25.653	26.194
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	125.08	120.58	115.97	111.25	106.42	101.48	96.42	91.26	85.99
			Mz	-0.55	-0.46	-0.37	-0.26	-0.13	0.02	0.19	0.35	0.52
		PP+1.35-CM+0.9-V+1.5-N	N	1.399	1.399	1.399	1.399	1.399	1.399	1.399	1.399	1.399
			Vy	-0.371	-0.371	-0.460	-0.560	-0.659	-0.759	-0.775	-0.775	-0.775
			Vz	20.110	20.602	21.094	21.586	22.079	22.571	23.063	23.555	24.047
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	114.95	110.81	106.57	102.23	97.79	93.25	88.61	83.87	79.03
			Mz	-0.52	-0.44	-0.36	-0.25	-0.13	0.01	0.17	0.33	0.49
		1.35-PP+1.35-CM+0.9-V+1.5-N	N	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338
			Vy	-0.413	-0.413	-0.502	-0.602	-0.701	-0.801	-0.817	-0.817	-0.817
			Vz	22.502	23.066	23.630	24.194	24.758	25.323	25.887	26.451	27.015
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	128.87	124.24	119.49	114.63	109.65	104.56	99.35	94.03	88.59
			Mz	-0.55	-0.47	-0.38	-0.26	-0.13	0.02	0.19	0.35	0.52
		PP+CM+1.05-Q+0.9-V+1.5-N	N	1.152	1.152	1.152	1.152	1.152	1.152	1.152	1.152	1.152
			Vy	-0.608	-0.608	-0.697	-0.797	-0.897	-0.996	-1.012	-1.012	-1.012
			Vz	52.341	53.985	55.629	57.273	58.917	60.560	62.204	63.848	65.492
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	306.31	295.50	284.35	272.87	261.06	248.91	236.43	223.61	210.46
			Mz	-0.74	-0.62	-0.49	-0.34	-0.16	0.03	0.23	0.44	0.65
		1.35-PP+CM+1.05-Q+0.9-V+1.5-N	N	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091
			Vy	-0.650	-0.650	-0.739	-0.839	-0.939	-1.038	-1.054	-1.054	-1.054
			Vz	54.733	56.449	58.165	59.881	61.597	63.312	65.028	66.744	68.460
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	320.23	308.93	297.27	285.27	272.92	260.22	247.16	233.77	220.02
			Mz	-0.78	-0.65	-0.51	-0.35	-0.17	0.03	0.25	0.46	0.68
		PP+1.35-CM+1.05-Q+0.9-V+1.5-N	N	1.148	1.148	1.148	1.148	1.148	1.148	1.148	1.148	1.148
			Vy	-0.613	-0.613	-0.702	-0.802	-0.901	-1.001	-1.017	-1.017	-1.017
			Vz	52.980	54.647	56.314	57.980	59.647	61.313	62.980	64.646	66.313
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	310.10	299.16	287.87	276.25	264.29	251.99	239.35	226.37	213.06
			Mz	-0.75	-0.62	-0.49	-0.34	-0.17	0.03	0.23	0.44	0.65
		1.35-PP+1.35-CM+1.05-Q+0.9-V+1.5-N	N	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087
			Vy	-0.655	-0.655	-0.744	-0.844	-0.943	-1.043	-1.059	-1.059	-1.059
			Vz	55.372	57.111	58.849	60.588	62.327	64.065	65.804	67.543	69.281
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	324.02	312.58	300.79	288.65	276.15	263.30	250.09	236.53	222.62
			Mz	-0.79	-0.65	-0.51	-0.35	-0.17	0.03	0.25	0.46	0.68
		PP+CM+1.5-Q+0.75-N	N	-0.914	-0.914	-0.914	-0.914	-0.914	-0.914	-0.914	-0.914	-0.914
			Vy	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698
			Vz	61.022	63.070	65.118	67.166	69.214	71.262	73.310	75.358	77.407
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	359.65	347.03	334.00	320.54	306.68	292.39	277.69	262.57	247.04
			Mz	-0.64	-0.49	-0.35	-0.21	-0.07	0.07	0.22	0.36	0.50
		1.35-PP+CM+1.5-Q+0.75-N	N	-0.975	-0.975	-0.975	-0.975	-0.975	-0.975	-0.975	-0.975	-0.975
			Vy	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740	-0.740
			Vz	63.414	65.534	67.654	69.774	71.894	74.014	76.135	78.255	80.375
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	373.57	360.46	346.91	332.94	318.53	303.70	288.43	272.73	256.60
			Mz	-0.67	-0.52	-0.37	-0.22	-0.07	0.08	0.23	0.38	0.53

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918
			Vy	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703	-0.703
			Vz	61.661	63.732	65.803	67.874	69.945	72.015	74.086	76.157	78.228
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	363.44	350.69	337.52	323.92	309.91	295.47	280.62	265.34	249.64
			Mz	-0.64	-0.50	-0.35	-0.21	-0.07	0.07	0.22	0.36	0.50
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.978	-0.978	-0.978	-0.978	-0.978	-0.978	-0.978	-0.978	-0.978
			Vy	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
			Vz	64.053	66.196	68.339	70.482	72.624	74.767	76.910	79.053	81.196
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	377.36	364.12	350.44	336.32	321.77	306.78	291.36	275.50	259.20
			Mz	-0.68	-0.53	-0.37	-0.22	-0.07	0.08	0.23	0.38	0.53
		PP+CM+1.5·V+0.75·N	N	3.329	3.329	3.329	3.329	3.329	3.329	3.329	3.329	3.329
			Vy	-0.010	-0.010	-0.158	-0.324	-0.490	-0.656	-0.683	-0.683	-0.683
			Vz	14.065	14.435	14.805	15.175	15.546	15.916	16.286	16.656	17.026
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	80.93	78.03	75.06	72.01	68.88	65.69	62.41	59.06	55.64
			Mz	-0.34	-0.34	-0.33	-0.28	-0.19	-0.08	0.06	0.20	0.34
		1.35·PP+CM+1.5·V+0.75·N	N	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268
			Vy	-0.052	-0.052	-0.200	-0.366	-0.532	-0.698	-0.725	-0.725	-0.725
			Vz	16.457	16.899	17.341	17.783	18.226	18.668	19.110	19.552	19.995
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	94.85	91.46	87.98	84.40	80.74	76.99	73.15	69.22	65.20
			Mz	-0.38	-0.37	-0.35	-0.29	-0.20	-0.07	0.08	0.22	0.37
		PP+1.35·CM+1.5·V+0.75·N	N	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325
			Vy	-0.015	-0.015	-0.163	-0.329	-0.495	-0.661	-0.688	-0.688	-0.688
			Vz	14.704	15.097	15.490	15.883	16.276	16.669	17.062	17.455	17.848
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	84.72	81.69	78.58	75.39	72.12	68.77	65.34	61.83	58.24
			Mz	-0.35	-0.34	-0.33	-0.28	-0.19	-0.08	0.06	0.20	0.34
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	3.264	3.264	3.264	3.264	3.264	3.264	3.264	3.264	3.264
			Vy	-0.057	-0.057	-0.205	-0.371	-0.537	-0.703	-0.730	-0.730	-0.730
			Vz	17.096	17.561	18.026	18.491	18.956	19.421	19.886	20.351	20.816
			Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
			My	98.64	95.12	91.50	87.78	83.98	80.07	76.08	71.99	67.80
			Mz	-0.38	-0.37	-0.35	-0.29	-0.20	-0.07	0.08	0.22	0.37
		PP+CM+1.05·Q+1.5·V+0.75·N	N	3.078	3.078	3.078	3.078	3.078	3.078	3.078	3.078	3.078
			Vy	-0.252	-0.252	-0.400	-0.566	-0.732	-0.898	-0.925	-0.925	-0.925
			Vz	46.935	48.480	50.024	51.569	53.114	54.658	56.203	57.748	59.292
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	276.08	266.38	256.36	246.03	235.38	224.42	213.15	201.56	189.66
			Mz	-0.58	-0.53	-0.46	-0.36	-0.23	-0.07	0.12	0.31	0.50
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	3.017	3.017	3.017	3.017	3.017	3.017	3.017	3.017	3.017
			Vy	-0.294	-0.294	-0.442	-0.608	-0.774	-0.940	-0.967	-0.967	-0.967
			Vz	49.327	50.943	52.560	54.177	55.794	57.410	59.027	60.644	62.261
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	290.00	279.80	269.28	258.42	247.24	235.73	223.89	211.72	199.22
			Mz	-0.61	-0.55	-0.48	-0.37	-0.23	-0.06	0.14	0.33	0.53
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.074	3.074	3.074	3.074	3.074	3.074	3.074	3.074	3.074
			Vy	-0.256	-0.256	-0.405	-0.571	-0.737	-0.903	-0.930	-0.930	-0.930
			Vz	47.574	49.142	50.709	52.276	53.844	55.411	56.979	58.546	60.114
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	279.87	270.03	259.88	249.41	238.62	227.51	216.08	204.33	192.26
			Mz	-0.58	-0.53	-0.46	-0.36	-0.23	-0.07	0.12	0.31	0.50
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.014	3.014	3.014	3.014	3.014	3.014	3.014	3.014	3.014
			Vy	-0.298	-0.298	-0.447	-0.613	-0.779	-0.945	-0.972	-0.972	-0.972
			Vz	49.966	51.605	53.245	54.884	56.524	58.163	59.803	61.442	63.082

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	293.79	283.46	272.80	261.80	250.48	238.81	226.82	214.49	201.83
			Mz	-0.62	-0.56	-0.48	-0.38	-0.23	-0.06	0.14	0.34	0.53
		PP+CM+1.5·Q+0.9·V+0.75·N	N	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417
			Vy	-0.493	-0.493	-0.582	-0.681	-0.781	-0.880	-0.897	-0.897	-0.897
			Vz	61.022	63.070	65.118	67.166	69.214	71.262	73.310	75.358	77.407
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	359.69	347.07	334.03	320.58	306.71	292.43	277.73	262.61	247.08
			Mz	-0.66	-0.56	-0.45	-0.32	-0.17	-0.01	0.18	0.36	0.54
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.356
			Vy	-0.535	-0.535	-0.624	-0.723	-0.823	-0.922	-0.939	-0.939	-0.939
			Vz	63.414	65.534	67.654	69.774	71.894	74.014	76.135	78.255	80.375
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	373.61	360.50	346.95	332.98	318.57	303.74	288.47	272.77	256.64
			Mz	-0.70	-0.59	-0.47	-0.34	-0.18	0.00	0.19	0.38	0.57
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.413	1.413	1.413	1.413	1.413	1.413	1.413	1.413	1.413
			Vy	-0.497	-0.497	-0.586	-0.686	-0.786	-0.885	-0.901	-0.901	-0.901
			Vz	61.661	63.732	65.803	67.874	69.945	72.015	74.086	76.157	78.228
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	363.48	350.73	337.55	323.96	309.95	295.51	280.65	265.38	249.68
			Mz	-0.67	-0.56	-0.45	-0.33	-0.18	-0.01	0.18	0.36	0.54
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353
			Vy	-0.539	-0.539	-0.628	-0.728	-0.827	-0.927	-0.943	-0.943	-0.943
			Vz	64.053	66.196	68.339	70.482	72.624	74.767	76.910	79.053	81.196
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	377.40	364.15	350.47	336.36	321.81	306.82	291.39	275.54	259.24
			Mz	-0.70	-0.59	-0.47	-0.34	-0.18	0.00	0.19	0.38	0.58

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N26/N28	Madera	PP+CM	N	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
			Vy	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
			Vz	11.093	11.364	11.635	11.906	12.177	12.448	12.719	12.990	13.261
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	34.75	32.47	30.13	27.73	25.28	22.78	20.22	17.61	14.94
			Mz	0.10	0.08	0.07	0.05	0.04	0.03	0.01	0.00	-0.02
		1.35·PP+CM	N	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	14.155	14.498	14.841	15.184	15.527	15.870	16.214	16.557	16.900
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	44.31	41.40	38.41	35.36	32.24	29.04	25.78	22.45	19.05
			Mz	0.13	0.11	0.09	0.07	0.05	0.03	0.01	-0.01	-0.02
		PP+1.35·CM	N	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176
			Vy	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
			Vz	11.914	12.208	12.502	12.796	13.089	13.383	13.677	13.971	14.265
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	37.35	34.90	32.39	29.81	27.18	24.49	21.74	18.93	16.05
			Mz	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00	-0.02
		1.35·PP+1.35·CM	N	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230
			Vy	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
			Vz	14.976	15.342	15.708	16.074	16.439	16.805	17.171	17.537	17.903
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	46.91	43.83	40.67	37.44	34.13	30.75	27.30	23.77	20.17
			Mz	0.13	0.11	0.09	0.07	0.05	0.03	0.01	-0.01	-0.02
		PP+CM+1.5·Q	N	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448	-0.448

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229
			Vz	71.471	73.420	75.369	77.318	79.266	81.215	83.164	85.113	87.062
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	226.20	211.47	196.34	180.81	164.89	148.57	131.86	114.75	97.24
			Mz	0.32	0.28	0.23	0.18	0.14	0.09	0.04	0.00	-0.05
	1.35-PP+CM+1.5-Q	N	-0.502	-0.502	-0.502	-0.502	-0.502	-0.502	-0.502	-0.502	-0.502	
		Vy	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	
		Vz	74.533	76.554	78.575	80.595	82.616	84.637	86.658	88.679	90.700	
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
		My	235.76	220.40	204.63	188.44	171.84	154.84	137.42	119.59	101.35	
		Mz	0.36	0.30	0.25	0.20	0.15	0.10	0.05	0.00	-0.05	
	PP+1.35-CM+1.5-Q	N	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453	
		Vy	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	
		Vz	72.292	74.264	76.235	78.207	80.179	82.150	84.122	86.093	88.065	
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
		My	228.81	213.90	198.60	182.89	166.79	150.28	133.37	116.06	98.35	
		Mz	0.33	0.28	0.23	0.19	0.14	0.09	0.05	0.00	-0.05	
	1.35-PP+1.35-CM+1.5-Q	N	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507	
		Vy	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	
		Vz	75.354	77.397	79.441	81.485	83.529	85.572	87.616	89.660	91.703	
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
		My	238.37	222.83	206.88	190.52	173.74	156.55	138.93	120.91	102.47	
		Mz	0.36	0.31	0.26	0.20	0.15	0.10	0.05	0.00	-0.05	
	PP+CM+1.5-V	N	-2.040	-2.040	-2.040	-2.040	-2.040	-2.040	-2.040	-2.040	-2.040	
		Vy	3.057	3.057	2.909	2.743	2.577	2.411	2.384	2.384	2.384	
		Vz	11.093	11.364	11.635	11.906	12.177	12.448	12.719	12.990	13.261	
		Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	
		My	34.61	32.33	29.99	27.60	25.15	22.65	20.09	17.47	14.80	
		Mz	0.06	-0.56	-1.17	-1.75	-2.29	-2.80	-3.28	-3.77	-4.25	
	1.35-PP+CM+1.5-V	N	-2.094	-2.094	-2.094	-2.094	-2.094	-2.094	-2.094	-2.094	-2.094	
		Vy	3.080	3.080	2.932	2.766	2.600	2.434	2.407	2.407	2.407	
		Vz	14.155	14.498	14.841	15.184	15.527	15.870	16.214	16.557	16.900	
		Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	
		My	44.18	41.26	38.28	35.23	32.10	28.91	25.65	22.32	18.91	
		Mz	0.09	-0.54	-1.15	-1.73	-2.28	-2.79	-3.28	-3.77	-4.26	
	PP+1.35-CM+1.5-V	N	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045	
		Vy	3.059	3.059	2.911	2.745	2.579	2.413	2.386	2.386	2.386	
		Vz	11.914	12.208	12.502	12.796	13.089	13.383	13.677	13.971	14.265	
		Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	
		My	37.22	34.76	32.25	29.68	27.05	24.35	21.60	18.79	15.92	
		Mz	0.06	-0.56	-1.17	-1.75	-2.29	-2.79	-3.28	-3.77	-4.25	
	1.35-PP+1.35-CM+1.5-V	N	-2.099	-2.099	-2.099	-2.099	-2.099	-2.099	-2.099	-2.099	-2.099	
		Vy	3.082	3.082	2.934	2.768	2.602	2.436	2.409	2.409	2.409	
		Vz	14.976	15.342	15.708	16.074	16.439	16.805	17.171	17.537	17.903	
		Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	
		My	46.78	43.69	40.54	37.31	34.00	30.62	27.16	23.63	20.03	
		Mz	0.09	-0.53	-1.15	-1.73	-2.27	-2.79	-3.28	-3.77	-4.26	
	PP+CM+1.05-Q+1.5-V	N	-2.234	-2.234	-2.234	-2.234	-2.234	-2.234	-2.234	-2.234	-2.234	
		Vy	3.168	3.168	3.020	2.854	2.688	2.522	2.495	2.495	2.495	
		Vz	53.358	54.803	56.249	57.694	59.140	60.585	62.031	63.476	64.922	
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	
		My	168.63	157.63	146.34	134.76	122.87	110.70	98.23	85.47	72.41	
		Mz	0.22	-0.43	-1.06	-1.66	-2.22	-2.75	-3.26	-3.76	-4.27	
	1.35-PP+CM+1.05-Q+1.5-V	N	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288	
		Vy	3.191	3.191	3.043	2.877	2.711	2.545	2.518	2.518	2.518	
		Vz	56.419	57.937	59.455	60.972	62.490	64.007	65.525	67.042	68.560	
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	178.19	166.56	154.63	142.38	129.83	116.96	103.79	90.31	76.52
			Mz	0.25	-0.40	-1.04	-1.64	-2.21	-2.74	-3.25	-3.77	-4.28
		PP+1.35·CM+1.05·Q+1.5·V	N	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239
			Vy	3.170	3.170	3.022	2.856	2.690	2.524	2.497	2.497	2.497
			Vz	54.179	55.647	57.115	58.583	60.052	61.520	62.988	64.457	65.925
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	171.23	160.07	148.60	136.83	124.77	112.41	99.75	86.79	73.53
			Mz	0.22	-0.42	-1.06	-1.65	-2.22	-2.75	-3.26	-3.76	-4.27
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-2.293	-2.293	-2.293	-2.293	-2.293	-2.293	-2.293	-2.293	-2.293
			Vy	3.193	3.193	3.045	2.879	2.713	2.547	2.520	2.520	2.520
			Vz	57.240	58.781	60.321	61.861	63.402	64.942	66.483	68.023	69.563
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	180.79	169.00	156.89	144.46	131.72	118.67	105.31	91.63	77.64
			Mz	0.25	-0.40	-1.03	-1.64	-2.21	-2.74	-3.25	-3.77	-4.28
		PP+CM+1.5·Q+0.9·V	N	-1.569	-1.569	-1.569	-1.569	-1.569	-1.569	-1.569	-1.569	-1.569
			Vy	2.021	2.021	1.932	1.833	1.733	1.633	1.617	1.617	1.617
			Vz	71.471	73.420	75.369	77.318	79.266	81.215	83.164	85.113	87.062
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	226.12	211.39	196.26	180.73	164.81	148.49	131.78	114.67	97.16
			Mz	0.30	-0.11	-0.51	-0.90	-1.26	-1.60	-1.93	-2.26	-2.59
		1.35·PP+CM+1.5·Q+0.9·V	N	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624
			Vy	2.044	2.044	1.955	1.855	1.756	1.656	1.640	1.640	1.640
			Vz	74.533	76.554	78.575	80.595	82.616	84.637	86.658	88.679	90.700
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	235.68	220.32	204.55	188.36	171.76	154.76	137.34	119.51	101.27
			Mz	0.33	-0.08	-0.49	-0.88	-1.25	-1.59	-1.93	-2.26	-2.59
		PP+1.35·CM+1.5·Q+0.9·V	N	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574
			Vy	2.023	2.023	1.934	1.835	1.735	1.636	1.619	1.619	1.619
			Vz	72.292	74.264	76.235	78.207	80.179	82.150	84.122	86.093	88.065
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	228.72	213.82	198.52	182.81	166.71	150.20	133.29	115.98	98.27
			Mz	0.30	-0.11	-0.51	-0.89	-1.26	-1.60	-1.93	-2.26	-2.59
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629
			Vy	2.046	2.046	1.957	1.857	1.758	1.658	1.642	1.642	1.642
			Vz	75.354	77.397	79.441	81.485	83.529	85.572	87.616	89.660	91.703
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	238.29	222.75	206.80	190.44	173.66	156.46	138.85	120.83	102.39
			Mz	0.34	-0.08	-0.49	-0.88	-1.24	-1.59	-1.93	-2.26	-2.59
		PP+CM+1.5·N	N	-0.880	-0.880	-0.880	-0.880	-0.880	-0.880	-0.880	-0.880	-0.880
			Vy	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330
			Vz	24.808	25.277	25.746	26.216	26.685	27.154	27.624	28.093	28.562
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	76.38	71.29	66.10	60.82	55.44	49.97	44.40	38.73	32.97
			Mz	0.44	0.38	0.31	0.24	0.17	0.11	0.04	-0.03	-0.09
		1.35·PP+CM+1.5·N	N	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935	-0.935
			Vy	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352
			Vz	27.869	28.411	28.952	29.494	30.035	30.576	31.118	31.659	32.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	85.95	80.22	74.39	68.45	62.39	56.23	49.96	43.57	37.08
			Mz	0.47	0.40	0.33	0.26	0.19	0.12	0.04	-0.03	-0.10
		PP+1.35·CM+1.5·N	N	-0.885	-0.885	-0.885	-0.885	-0.885	-0.885	-0.885	-0.885	-0.885
			Vy	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
			Vz	25.629	26.121	26.613	27.105	27.597	28.089	28.581	29.073	29.565
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	78.99	73.72	68.36	62.90	57.34	51.67	45.91	40.05	34.09
			Mz	0.45	0.38	0.31	0.24	0.18	0.11	0.04	-0.03	-0.09
		1.35·PP+1.35·CM+1.5·N	N	-0.939	-0.939	-0.939	-0.939	-0.939	-0.939	-0.939	-0.939	-0.939

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354
			Vz	28.690	29.255	29.819	30.383	30.947	31.511	32.075	32.640	33.204
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	88.55	82.65	76.65	70.53	64.29	57.94	51.47	44.89	38.20
			Mz	0.48	0.41	0.33	0.26	0.19	0.12	0.04	-0.03	-0.10
		PP+CM+1.05·Q+1.5·N	N	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074
			Vy	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
			Vz	67.072	68.716	70.360	72.004	73.647	75.291	76.935	78.579	80.223
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	210.40	196.59	182.45	167.98	153.17	138.02	122.54	106.73	90.58
			Mz	0.60	0.51	0.42	0.33	0.24	0.15	0.06	-0.03	-0.11
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128
			Vy	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463
			Vz	70.134	71.850	73.566	75.282	76.997	78.713	80.429	82.145	83.861
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	219.96	205.53	190.74	175.60	160.12	144.28	128.10	111.57	94.69
			Mz	0.63	0.54	0.44	0.35	0.26	0.16	0.07	-0.03	-0.12
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079
			Vy	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
			Vz	67.893	69.560	71.226	72.893	74.559	76.226	77.893	79.559	81.226
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	213.00	199.03	184.71	170.06	155.06	139.73	124.06	108.05	91.70
			Mz	0.61	0.52	0.43	0.34	0.25	0.16	0.07	-0.03	-0.11
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.133	-1.133	-1.133	-1.133	-1.133	-1.133	-1.133	-1.133	-1.133
			Vy	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465
			Vz	70.955	72.693	74.432	76.171	77.909	79.648	81.387	83.125	84.864
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	222.57	207.96	193.00	177.68	162.01	145.99	129.62	112.89	95.81
			Mz	0.64	0.54	0.45	0.35	0.26	0.16	0.07	-0.03	-0.12
		PP+CM+0.9·V+1.5·N	N	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001
			Vy	2.122	2.122	2.033	1.933	1.833	1.734	1.718	1.718	1.718
			Vz	24.808	25.277	25.746	26.216	26.685	27.154	27.624	28.093	28.562
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	76.30	71.21	66.02	60.74	55.36	49.88	44.31	38.65	32.89
			Mz	0.42	-0.01	-0.44	-0.84	-1.22	-1.58	-1.93	-2.28	-2.63
		1.35·PP+CM+0.9·V+1.5·N	N	-2.056	-2.056	-2.056	-2.056	-2.056	-2.056	-2.056	-2.056	-2.056
			Vy	2.144	2.144	2.055	1.956	1.856	1.757	1.740	1.740	1.740
			Vz	27.869	28.411	28.952	29.494	30.035	30.576	31.118	31.659	32.201
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	85.86	80.14	74.31	68.37	62.31	56.15	49.88	43.49	37.00
			Mz	0.45	0.01	-0.41	-0.82	-1.21	-1.58	-1.93	-2.28	-2.64
		PP+1.35·CM+0.9·V+1.5·N	N	-2.006	-2.006	-2.006	-2.006	-2.006	-2.006	-2.006	-2.006	-2.006
			Vy	2.124	2.124	2.035	1.935	1.835	1.736	1.720	1.720	1.720
			Vz	25.629	26.121	26.613	27.105	27.597	28.089	28.581	29.073	29.565
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	78.91	73.64	68.28	62.82	57.26	51.59	45.83	39.97	34.01
			Mz	0.42	-0.01	-0.43	-0.84	-1.22	-1.58	-1.93	-2.28	-2.63
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-2.061	-2.061	-2.061	-2.061	-2.061	-2.061	-2.061	-2.061	-2.061
			Vy	2.146	2.146	2.057	1.958	1.858	1.759	1.742	1.742	1.742
			Vz	28.690	29.255	29.819	30.383	30.947	31.511	32.075	32.640	33.204
			Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
			My	88.47	82.57	76.57	70.45	64.21	57.86	51.39	44.81	38.12
			Mz	0.45	0.02	-0.41	-0.82	-1.21	-1.58	-1.93	-2.28	-2.64
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.195	-2.195	-2.195	-2.195	-2.195	-2.195	-2.195	-2.195	-2.195
			Vy	2.233	2.233	2.144	2.044	1.944	1.845	1.829	1.829	1.829
			Vz	67.072	68.716	70.360	72.004	73.647	75.291	76.935	78.579	80.223
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	210.32	196.51	182.37	167.90	153.08	137.94	122.46	106.65	90.50
			Mz	0.58	0.12	-0.32	-0.75	-1.15	-1.54	-1.91	-2.28	-2.65
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.250	-2.250	-2.250	-2.250	-2.250	-2.250	-2.250	-2.250	-2.250
			Vy	2.255	2.255	2.166	2.067	1.967	1.868	1.851	1.851	1.851
			Vz	70.134	71.850	73.566	75.282	76.997	78.713	80.429	82.145	83.861
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	219.88	205.44	190.66	175.52	160.04	144.20	128.02	111.49	94.61
			Mz	0.61	0.15	-0.30	-0.73	-1.14	-1.53	-1.91	-2.28	-2.66
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.200	-2.200	-2.200	-2.200	-2.200	-2.200	-2.200	-2.200	-2.200
			Vy	2.235	2.235	2.146	2.046	1.946	1.847	1.831	1.831	1.831
			Vz	67.893	69.560	71.226	72.893	74.559	76.226	77.893	79.559	81.226
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	212.92	198.95	184.63	169.97	154.98	139.65	123.98	107.97	91.62
			Mz	0.58	0.13	-0.32	-0.75	-1.15	-1.54	-1.91	-2.28	-2.65
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.255	-2.255	-2.255	-2.255	-2.255	-2.255	-2.255	-2.255	-2.255
			Vy	2.257	2.257	2.168	2.069	1.969	1.870	1.853	1.853	1.853
			Vz	70.955	72.693	74.432	76.171	77.909	79.648	81.387	83.125	84.864
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	222.48	207.88	192.92	177.60	161.93	145.91	129.54	112.81	95.73
			Mz	0.61	0.15	-0.30	-0.73	-1.14	-1.53	-1.91	-2.28	-2.66
		PP+CM+1.5·Q+0.75·N	N	-0.802	-0.802	-0.802	-0.802	-0.802	-0.802	-0.802	-0.802	-0.802
			Vy	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
			Vz	78.328	80.376	82.424	84.472	86.520	88.568	90.616	92.664	94.712
			Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
			My	247.02	230.88	214.33	197.36	179.97	162.17	143.94	125.31	106.25
			Mz	0.50	0.42	0.35	0.28	0.21	0.13	0.06	-0.01	-0.09
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857
			Vy	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382
			Vz	81.390	83.510	85.630	87.750	89.870	91.990	94.110	96.231	98.351
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	256.58	239.81	222.61	204.98	186.92	168.43	149.51	130.15	110.36
			Mz	0.53	0.45	0.37	0.30	0.22	0.14	0.06	-0.01	-0.09
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807
			Vy	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361
			Vz	79.149	81.220	83.291	85.362	87.432	89.503	91.574	93.645	95.716
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	249.62	233.32	216.59	199.44	181.87	163.87	145.46	126.63	107.37
			Mz	0.50	0.43	0.35	0.28	0.21	0.13	0.06	-0.01	-0.09
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862
			Vy	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384
			Vz	82.211	84.354	86.497	88.639	90.782	92.925	95.068	97.211	99.354
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	259.18	242.25	224.87	207.06	188.82	170.14	151.02	131.47	111.48
			Mz	0.53	0.45	0.38	0.30	0.22	0.14	0.06	-0.01	-0.09
		PP+CM+1.5·V+0.75·N	N	-2.394	-2.394	-2.394	-2.394	-2.394	-2.394	-2.394	-2.394	-2.394
			Vy	3.187	3.187	3.038	2.872	2.706	2.540	2.513	2.513	2.513
			Vz	17.951	18.321	18.691	19.061	19.431	19.801	20.172	20.542	20.912
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	55.43	51.74	47.98	44.14	40.23	36.24	32.17	28.03	23.82
			Mz	0.23	-0.42	-1.05	-1.65	-2.22	-2.75	-3.27	-3.78	-4.29
		1.35·PP+CM+1.5·V+0.75·N	N	-2.449	-2.449	-2.449	-2.449	-2.449	-2.449	-2.449	-2.449	-2.449
			Vy	3.209	3.209	3.061	2.895	2.729	2.563	2.536	2.536	2.536
			Vz	21.012	21.454	21.897	22.339	22.781	23.223	23.666	24.108	24.550
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	64.99	60.67	56.27	51.77	47.18	42.50	37.73	32.88	27.93
			Mz	0.26	-0.39	-1.03	-1.64	-2.21	-2.75	-3.26	-3.78	-4.29
		PP+1.35·CM+1.5·V+0.75·N	N	-2.399	-2.399	-2.399	-2.399	-2.399	-2.399	-2.399	-2.399	-2.399

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			Vy	3.189	3.189	3.040	2.874	2.708	2.543	2.515	2.515	2.515
			Vz	18.771	19.164	19.557	19.950	20.343	20.736	21.129	21.522	21.915
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	58.03	54.18	50.24	46.22	42.12	37.95	33.69	29.35	24.94
			Mz	0.23	-0.41	-1.05	-1.65	-2.22	-2.75	-3.26	-3.78	-4.29
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-2.454	-2.454	-2.454	-2.454	-2.454	-2.454	-2.454	-2.454	-2.454
			Vy	3.211	3.211	3.063	2.897	2.731	2.565	2.538	2.538	2.538
			Vz	21.833	22.298	22.763	23.228	23.693	24.158	24.623	25.088	25.553
			Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
			My	67.59	63.11	58.52	53.85	49.08	44.21	39.25	34.20	29.05
			Mz	0.26	-0.39	-1.03	-1.63	-2.21	-2.74	-3.26	-3.78	-4.29
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588
			Vy	3.298	3.298	3.149	2.983	2.817	2.651	2.624	2.624	2.624
			Vz	60.215	61.760	63.304	64.849	66.394	67.938	69.483	71.028	72.572
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	189.45	177.05	164.33	151.30	137.95	124.29	110.32	96.03	81.43
			Mz	0.39	-0.28	-0.94	-1.56	-2.15	-2.71	-3.24	-3.78	-4.31
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643
			Vy	3.320	3.320	3.172	3.006	2.840	2.674	2.647	2.647	2.647
			Vz	63.277	64.893	66.510	68.127	69.744	71.360	72.977	74.594	76.211
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	199.01	185.98	172.62	158.93	144.91	130.56	115.88	100.87	85.54
			Mz	0.42	-0.25	-0.92	-1.54	-2.14	-2.70	-3.24	-3.78	-4.31
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-2.593	-2.593	-2.593	-2.593	-2.593	-2.593	-2.593	-2.593	-2.593
			Vy	3.300	3.300	3.151	2.985	2.819	2.654	2.626	2.626	2.626
			Vz	61.036	62.603	64.171	65.738	67.306	68.873	70.441	72.008	73.575
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	192.05	179.48	166.59	153.38	139.85	126.00	111.84	97.35	82.55
			Mz	0.39	-0.28	-0.94	-1.56	-2.15	-2.71	-3.24	-3.78	-4.31
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648
			Vy	3.322	3.322	3.174	3.008	2.842	2.676	2.649	2.649	2.649
			Vz	64.098	65.737	67.377	69.016	70.656	72.295	73.935	75.574	77.214
			Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
			My	201.61	188.41	174.87	161.00	146.80	132.27	117.40	102.19	86.66
			Mz	0.42	-0.25	-0.91	-1.54	-2.14	-2.70	-3.24	-3.78	-4.31
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.924	-1.924	-1.924	-1.924	-1.924	-1.924	-1.924	-1.924	-1.924
			Vy	2.151	2.151	2.062	1.962	1.863	1.763	1.747	1.747	1.747
			Vz	78.328	80.376	82.424	84.472	86.520	88.568	90.616	92.664	94.712
			Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
			My	246.94	230.80	214.25	197.28	179.89	162.08	143.86	125.23	106.17
			Mz	0.47	0.04	-0.39	-0.80	-1.19	-1.56	-1.92	-2.27	-2.62
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979
			Vy	2.173	2.173	2.084	1.985	1.885	1.786	1.769	1.769	1.769
			Vz	81.390	83.510	85.630	87.750	89.870	91.990	94.110	96.231	98.351
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	256.50	239.73	222.53	204.90	186.84	168.35	149.42	130.07	110.28
			Mz	0.50	0.06	-0.37	-0.78	-1.18	-1.55	-1.91	-2.27	-2.63
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.929	-1.929	-1.929	-1.929	-1.929	-1.929	-1.929	-1.929	-1.929
			Vy	2.153	2.153	2.064	1.964	1.865	1.765	1.749	1.749	1.749
			Vz	79.149	81.220	83.291	85.362	87.432	89.503	91.574	93.645	95.716
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
			My	249.54	233.23	216.51	199.36	181.79	163.79	145.38	126.55	107.29
			Mz	0.48	0.04	-0.39	-0.80	-1.19	-1.56	-1.91	-2.27	-2.62
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.983	-1.983	-1.983	-1.983	-1.983	-1.983	-1.983	-1.983	-1.983
			Vy	2.175	2.175	2.086	1.987	1.887	1.788	1.772	1.772	1.772
			Vz	82.211	84.354	86.497	88.639	90.782	92.925	95.068	97.211	99.354
			Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
			My	259.10	242.17	224.79	206.98	188.74	170.06	150.94	131.39	111.40
			Mz	0.51	0.07	-0.37	-0.78	-1.18	-1.55	-1.91	-2.27	-2.63

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
N28/N2	Madera	PP+CM	N	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	13.470	13.704	13.938	14.172	14.405	14.639	14.873
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	14.92	12.54	10.11	7.65	5.14	2.59	0.00
			Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		1.35-PP+CM	N	-0.288	-0.288	-0.288	-0.288	-0.288	-0.288	-0.288
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	17.182	17.478	17.775	18.071	18.367	18.663	18.959
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	19.03	15.99	12.89	9.75	6.55	3.30	0.00
			Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		PP+1.35-CM	N	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	14.472	14.726	14.979	15.233	15.486	15.740	15.993
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	16.04	13.48	10.87	8.22	5.52	2.78	0.00
			Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	18.184	18.500	18.816	19.132	19.447	19.763	20.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	20.15	16.93	13.65	10.32	6.94	3.50	0.00
			Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		PP+CM+1.5-Q	N	-0.604	-0.604	-0.604	-0.604	-0.604	-0.604	-0.604
			Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
			Vz	87.283	88.964	90.646	92.328	94.010	95.691	97.373
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	97.22	81.76	65.99	49.94	33.59	16.94	0.00
			Mz	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		1.35-PP+CM+1.5-Q	N	-0.674	-0.674	-0.674	-0.674	-0.674	-0.674	-0.674
			Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
			Vz	90.995	92.739	94.483	96.227	97.971	99.715	101.459
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	101.33	85.20	68.78	52.04	35.00	17.65	0.00
			Mz	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		PP+1.35-CM+1.5-Q	N	-0.609	-0.609	-0.609	-0.609	-0.609	-0.609	-0.609
			Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
			Vz	88.285	89.986	91.688	93.389	95.090	96.792	98.493
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	98.34	82.70	66.75	50.51	33.97	17.14	0.00
			Mz	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		1.35-PP+1.35-CM+1.5-Q	N	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680
			Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
			Vz	91.997	93.761	95.524	97.288	99.052	100.815	102.579

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación Descripción	Esfuerzo	Posiciones en la barra						
				0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	102.44	86.14	69.53	52.61	35.39	17.85	0.00
			Mz	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		PP+CM+1.5·V	N	-6.132	-6.132	-6.132	-6.132	-6.132	-6.132	-6.132
			Vy	-4.057	-4.057	-4.160	-4.304	-4.447	-4.590	-4.733
			Vz	13.470	13.704	13.938	14.172	14.405	14.639	14.873
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	14.92	12.54	10.11	7.65	5.14	2.59	0.00
			Mz	-4.55	-3.84	-3.12	-2.38	-1.61	-0.82	0.00
		1.35·PP+CM+1.5·V	N	-6.202	-6.202	-6.202	-6.202	-6.202	-6.202	-6.202
			Vy	-4.062	-4.062	-4.165	-4.308	-4.451	-4.595	-4.738
			Vz	17.182	17.478	17.775	18.071	18.367	18.663	18.959
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	19.03	15.99	12.89	9.75	6.55	3.30	0.00
			Mz	-4.56	-3.84	-3.12	-2.38	-1.61	-0.82	0.00
		PP+1.35·CM+1.5·V	N	-6.137	-6.137	-6.137	-6.137	-6.137	-6.137	-6.137
			Vy	-4.057	-4.057	-4.160	-4.304	-4.447	-4.590	-4.733
			Vz	14.472	14.726	14.979	15.233	15.486	15.740	15.993
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	16.04	13.48	10.87	8.22	5.52	2.78	0.00
			Mz	-4.55	-3.84	-3.12	-2.38	-1.61	-0.82	0.00
		1.35·PP+1.35·CM+1.5·V	N	-6.208	-6.208	-6.208	-6.208	-6.208	-6.208	-6.208
			Vy	-4.062	-4.062	-4.165	-4.308	-4.451	-4.595	-4.738
			Vz	18.184	18.500	18.816	19.132	19.447	19.763	20.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	20.15	16.93	13.65	10.32	6.94	3.50	0.00
			Mz	-4.56	-3.84	-3.12	-2.38	-1.61	-0.82	0.00
		PP+CM+1.05·Q+1.5·V	N	-6.402	-6.402	-6.402	-6.402	-6.402	-6.402	-6.402
			Vy	-4.076	-4.076	-4.179	-4.322	-4.465	-4.608	-4.751
			Vz	65.139	66.386	67.634	68.881	70.128	71.376	72.623
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	72.53	60.99	49.23	37.25	25.05	12.64	0.00
			Mz	-4.57	-3.86	-3.13	-2.39	-1.62	-0.82	0.00
		1.35·PP+CM+1.05·Q+1.5·V	N	-6.473	-6.473	-6.473	-6.473	-6.473	-6.473	-6.473
			Vy	-4.081	-4.081	-4.183	-4.327	-4.470	-4.613	-4.756
			Vz	68.851	70.161	71.470	72.780	74.090	75.399	76.709
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	76.64	64.44	52.01	39.35	26.47	13.35	0.00
			Mz	-4.58	-3.86	-3.14	-2.39	-1.62	-0.82	0.00
		PP+1.35·CM+1.05·Q+1.5·V	N	-6.407	-6.407	-6.407	-6.407	-6.407	-6.407	-6.407
			Vy	-4.076	-4.076	-4.179	-4.322	-4.465	-4.608	-4.751
			Vz	66.141	67.408	68.675	69.942	71.209	72.476	73.743
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	73.65	61.93	49.99	37.83	25.44	12.83	0.00
			Mz	-4.57	-3.86	-3.13	-2.39	-1.62	-0.82	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-6.478	-6.478	-6.478	-6.478	-6.478	-6.478	-6.478
			Vy	-4.081	-4.081	-4.183	-4.327	-4.470	-4.613	-4.756
			Vz	69.853	71.183	72.512	73.841	75.170	76.500	77.829
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	77.75	65.38	52.77	39.93	26.85	13.54	0.00
			Mz	-4.58	-3.86	-3.14	-2.39	-1.62	-0.82	0.00

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación	Esfuerzo	Posiciones en la barra						
		Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
		PP+CM+1.5·Q+0.9·V	N	-4.152	-4.152	-4.152	-4.152	-4.152	-4.152	-4.152
			Vy	-2.466	-2.466	-2.528	-2.614	-2.700	-2.786	-2.871
			Vz	87.283	88.964	90.646	92.328	94.010	95.691	97.373
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	97.22	81.76	65.99	49.94	33.59	16.94	0.00
			Mz	-2.76	-2.33	-1.90	-1.44	-0.98	-0.50	0.00
		1.35·PP+CM+1.5·Q+0.9·V	N	-4.223	-4.223	-4.223	-4.223	-4.223	-4.223	-4.223
			Vy	-2.471	-2.471	-2.533	-2.618	-2.704	-2.790	-2.876
			Vz	90.995	92.739	94.483	96.227	97.971	99.715	101.459
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	101.33	85.20	68.78	52.04	35.00	17.65	0.00
			Mz	-2.77	-2.34	-1.90	-1.45	-0.98	-0.50	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	-4.158	-4.158	-4.158	-4.158	-4.158	-4.158	-4.158
			Vy	-2.466	-2.466	-2.528	-2.614	-2.700	-2.786	-2.871
			Vz	88.285	89.986	91.688	93.389	95.090	96.792	98.493
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	98.34	82.70	66.75	50.51	33.97	17.14	0.00
			Mz	-2.76	-2.33	-1.90	-1.44	-0.98	-0.50	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-4.228	-4.228	-4.228	-4.228	-4.228	-4.228	-4.228
			Vy	-2.471	-2.471	-2.533	-2.618	-2.704	-2.790	-2.876
			Vz	91.997	93.761	95.524	97.288	99.052	100.815	102.579
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	102.44	86.14	69.53	52.61	35.39	17.85	0.00
			Mz	-2.77	-2.34	-1.90	-1.45	-0.98	-0.50	0.00
		PP+CM+1.5·N	N	-1.111	-1.111	-1.111	-1.111	-1.111	-1.111	-1.111
			Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
			Vz	30.090	30.495	30.900	31.305	31.710	32.115	32.519
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	32.96	27.65	22.26	16.80	11.27	5.67	0.00
			Mz	-0.08	-0.06	-0.05	-0.04	-0.03	-0.01	0.00
		1.35·PP+CM+1.5·N	N	-1.181	-1.181	-1.181	-1.181	-1.181	-1.181	-1.181
			Vy	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
			Vz	33.802	34.269	34.736	35.204	35.671	36.138	36.605
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	37.07	31.10	25.04	18.90	12.68	6.38	0.00
			Mz	-0.08	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
		PP+1.35·CM+1.5·N	N	-1.116	-1.116	-1.116	-1.116	-1.116	-1.116	-1.116
			Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
			Vz	31.092	31.516	31.941	32.366	32.790	33.215	33.639
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	34.08	28.59	23.02	17.38	11.66	5.87	0.00
			Mz	-0.08	-0.06	-0.05	-0.04	-0.03	-0.01	0.00
		1.35·PP+1.35·CM+1.5·N	N	-1.187	-1.187	-1.187	-1.187	-1.187	-1.187	-1.187
			Vy	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
			Vz	34.804	35.291	35.778	36.265	36.751	37.238	37.725
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	38.19	32.04	25.80	19.48	13.07	6.58	0.00
			Mz	-0.08	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
		PP+CM+1.05·Q+1.5·N	N	-1.381	-1.381	-1.381	-1.381	-1.381	-1.381	-1.381
			Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
			Vz	81.758	83.177	84.595	86.014	87.432	88.851	90.269

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación Descripción	Esfuerzo	Posiciones en la barra						
				0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	90.57	76.10	61.38	46.41	31.19	15.72	0.00
			Mz	-0.10	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	85.471	86.952	88.432	89.913	91.394	92.874	94.355
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	94.68	79.55	64.16	48.51	32.60	16.43	0.00
			Mz	-0.10	-0.09	-0.07	-0.05	-0.03	-0.02	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.386	-1.386	-1.386	-1.386	-1.386	-1.386	-1.386
			Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
			Vz	82.761	84.199	85.637	87.075	88.513	89.951	91.389
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	91.69	77.04	62.14	46.98	31.57	15.91	0.00
			Mz	-0.10	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.457	-1.457	-1.457	-1.457	-1.457	-1.457	-1.457
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	86.473	87.973	89.474	90.974	92.474	93.975	95.475
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.80	80.49	64.92	49.08	32.99	16.62	0.00
			Mz	-0.10	-0.09	-0.07	-0.05	-0.03	-0.02	0.00
		PP+CM+0.9·V+1.5·N	N	-4.659	-4.659	-4.659	-4.659	-4.659	-4.659	-4.659
			Vy	-2.500	-2.500	-2.562	-2.648	-2.734	-2.820	-2.906
			Vz	30.090	30.495	30.900	31.305	31.710	32.115	32.519
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	32.96	27.65	22.26	16.80	11.27	5.67	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	-4.730	-4.730	-4.730	-4.730	-4.730	-4.730	-4.730
			Vy	-2.505	-2.505	-2.567	-2.653	-2.739	-2.824	-2.910
			Vz	33.802	34.269	34.736	35.204	35.671	36.138	36.605
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	37.07	31.10	25.04	18.90	12.68	6.38	0.00
			Mz	-2.81	-2.37	-1.92	-1.46	-0.99	-0.50	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	-4.664	-4.664	-4.664	-4.664	-4.664	-4.664	-4.664
			Vy	-2.500	-2.500	-2.562	-2.648	-2.734	-2.820	-2.906
			Vz	31.092	31.516	31.941	32.366	32.790	33.215	33.639
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	34.08	28.59	23.02	17.38	11.66	5.87	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-4.735	-4.735	-4.735	-4.735	-4.735	-4.735	-4.735
			Vy	-2.505	-2.505	-2.567	-2.653	-2.739	-2.824	-2.910
			Vz	34.804	35.291	35.778	36.265	36.751	37.238	37.725
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	38.19	32.04	25.80	19.48	13.07	6.58	0.00
			Mz	-2.81	-2.37	-1.92	-1.46	-0.99	-0.50	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-4.930	-4.930	-4.930	-4.930	-4.930	-4.930	-4.930
			Vy	-2.519	-2.519	-2.580	-2.666	-2.752	-2.838	-2.924
			Vz	81.758	83.177	84.595	86.014	87.432	88.851	90.269
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	90.57	76.10	61.38	46.41	31.19	15.72	0.00
			Mz	-2.82	-2.38	-1.93	-1.47	-1.00	-0.51	0.00

Esfuerzos en barras, por combinación										
Barra	Tipo	Combinación	Esfuerzo	Posiciones en la barra						
		Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-5.000	-5.000	-5.000	-5.000	-5.000	-5.000	-5.000
			Vy	-2.523	-2.523	-2.585	-2.671	-2.757	-2.843	-2.929
			Vz	85.471	86.952	88.432	89.913	91.394	92.874	94.355
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	94.68	79.55	64.16	48.51	32.60	16.43	0.00
			Mz	-2.82	-2.38	-1.94	-1.47	-1.00	-0.51	0.00
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-4.935	-4.935	-4.935	-4.935	-4.935	-4.935	-4.935
			Vy	-2.519	-2.519	-2.580	-2.666	-2.752	-2.838	-2.924
			Vz	82.761	84.199	85.637	87.075	88.513	89.951	91.389
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	91.69	77.04	62.14	46.98	31.57	15.91	0.00
			Mz	-2.82	-2.38	-1.93	-1.47	-1.00	-0.51	0.00
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-5.006	-5.006	-5.006	-5.006	-5.006	-5.006	-5.006
			Vy	-2.523	-2.523	-2.585	-2.671	-2.757	-2.843	-2.929
			Vz	86.473	87.973	89.474	90.974	92.474	93.975	95.475
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	95.80	80.49	64.92	49.08	32.99	16.62	0.00
			Mz	-2.82	-2.38	-1.94	-1.47	-1.00	-0.51	0.00
		PP+CM+1.5·Q+0.75·N	N	-1.050	-1.050	-1.050	-1.050	-1.050	-1.050	-1.050
			Vy	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070
			Vz	95.592	97.360	99.127	100.894	102.662	104.429	106.196
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	106.24	89.31	72.07	54.52	36.65	18.48	0.00
			Mz	-0.07	-0.06	-0.05	-0.04	-0.02	-0.01	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.121	-1.121	-1.121	-1.121	-1.121	-1.121	-1.121
			Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
			Vz	99.305	101.134	102.964	104.793	106.623	108.452	110.282
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	110.35	92.76	74.85	56.62	38.07	19.19	0.00
			Mz	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.056	-1.056	-1.056	-1.056	-1.056	-1.056	-1.056
			Vy	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070
			Vz	96.595	98.382	100.168	101.955	103.742	105.529	107.316
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	107.36	90.25	72.83	55.09	37.04	18.68	0.00
			Mz	-0.07	-0.06	-0.05	-0.04	-0.02	-0.01	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.126	-1.126	-1.126	-1.126	-1.126	-1.126	-1.126
			Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
			Vz	100.307	102.156	104.005	105.854	107.704	109.553	111.402
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	111.46	93.70	75.61	57.19	38.45	19.39	0.00
			Mz	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		PP+CM+1.5·V+0.75·N	N	-6.578	-6.578	-6.578	-6.578	-6.578	-6.578	-6.578
			Vy	-4.088	-4.088	-4.190	-4.334	-4.477	-4.620	-4.763
			Vz	21.780	22.099	22.419	22.738	23.057	23.377	23.696
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	23.94	20.09	16.19	12.22	8.21	4.13	0.00
			Mz	-4.58	-3.87	-3.14	-2.39	-1.62	-0.82	0.00
		1.35·PP+CM+1.5·V+0.75·N	N	-6.649	-6.649	-6.649	-6.649	-6.649	-6.649	-6.649
			Vy	-4.092	-4.092	-4.195	-4.338	-4.482	-4.625	-4.768
			Vz	25.492	25.874	26.255	26.637	27.019	27.400	27.782

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	28.05	23.54	18.97	14.33	9.62	4.84	0.00
			Mz	-4.59	-3.87	-3.15	-2.40	-1.62	-0.82	0.00
		PP+1.35·CM+1.5·V+0.75·N	N	-6.584	-6.584	-6.584	-6.584	-6.584	-6.584	-6.584
			Vy	-4.088	-4.088	-4.190	-4.334	-4.477	-4.620	-4.763
			Vz	22.782	23.121	23.460	23.799	24.138	24.477	24.816
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	25.06	21.03	16.94	12.80	8.59	4.33	0.00
			Mz	-4.58	-3.87	-3.14	-2.39	-1.62	-0.82	0.00
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-6.654	-6.654	-6.654	-6.654	-6.654	-6.654	-6.654
			Vy	-4.092	-4.092	-4.195	-4.338	-4.482	-4.625	-4.768
			Vz	26.494	26.896	27.297	27.698	28.099	28.501	28.902
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	29.17	24.48	19.73	14.90	10.00	5.04	0.00
			Mz	-4.59	-3.87	-3.15	-2.40	-1.62	-0.82	0.00
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-6.849	-6.849	-6.849	-6.849	-6.849	-6.849	-6.849
			Vy	-4.106	-4.106	-4.209	-4.352	-4.495	-4.638	-4.782
			Vz	73.449	74.782	76.115	77.448	78.780	80.113	81.446
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	81.55	68.55	55.30	41.83	28.12	14.18	0.00
			Mz	-4.60	-3.88	-3.16	-2.40	-1.63	-0.83	0.00
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-6.920	-6.920	-6.920	-6.920	-6.920	-6.920	-6.920
			Vy	-4.111	-4.111	-4.213	-4.357	-4.500	-4.643	-4.786
			Vz	77.161	78.556	79.951	81.347	82.742	84.137	85.532
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	85.66	71.99	58.08	43.93	29.53	14.89	0.00
			Mz	-4.61	-3.89	-3.16	-2.41	-1.63	-0.83	0.00
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-6.854	-6.854	-6.854	-6.854	-6.854	-6.854	-6.854
			Vy	-4.106	-4.106	-4.209	-4.352	-4.495	-4.638	-4.782
			Vz	74.451	75.803	77.156	78.509	79.861	81.214	82.566
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	82.67	69.48	56.06	42.40	28.51	14.37	0.00
			Mz	-4.60	-3.88	-3.16	-2.40	-1.63	-0.83	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-6.925	-6.925	-6.925	-6.925	-6.925	-6.925	-6.925
			Vy	-4.111	-4.111	-4.213	-4.357	-4.500	-4.643	-4.786
			Vz	78.163	79.578	80.993	82.408	83.822	85.237	86.652
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	86.78	72.93	58.84	44.50	29.92	15.08	0.00
			Mz	-4.61	-3.89	-3.16	-2.41	-1.63	-0.83	0.00
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-4.599	-4.599	-4.599	-4.599	-4.599	-4.599	-4.599
			Vy	-2.496	-2.496	-2.558	-2.644	-2.730	-2.816	-2.902
			Vz	95.592	97.360	99.127	100.894	102.662	104.429	106.196
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	106.24	89.31	72.07	54.52	36.65	18.48	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-4.670	-4.670	-4.670	-4.670	-4.670	-4.670	-4.670
			Vy	-2.501	-2.501	-2.563	-2.649	-2.735	-2.820	-2.906
			Vz	99.305	101.134	102.964	104.793	106.623	108.452	110.282
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	110.35	92.76	74.85	56.62	38.07	19.19	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00

Esfuerzos en barras, por combinación										
Barra	Combinación		Esfuerzo	Posiciones en la barra						
	Tipo	Descripción		0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-4.604	-4.604	-4.604	-4.604	-4.604	-4.604	-4.604
			Vy	-2.496	-2.496	-2.558	-2.644	-2.730	-2.816	-2.902
			Vz	96.595	98.382	100.168	101.955	103.742	105.529	107.316
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	107.36	90.25	72.83	55.09	37.04	18.68	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-4.675	-4.675	-4.675	-4.675	-4.675	-4.675	-4.675
			Vy	-2.501	-2.501	-2.563	-2.649	-2.735	-2.820	-2.906
			Vz	100.307	102.156	104.005	105.854	107.704	109.553	111.402
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	111.46	93.70	75.61	57.19	38.45	19.39	0.00
			Mz	-2.80	-2.36	-1.92	-1.46	-0.99	-0.50	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
N7/N8	Madera	PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.05	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.05	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.05	0.07	0.10	0.11	0.10	0.07	0.06	0.01	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.35·PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
	Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
	Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206		
	Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	My	0.02	0.08	0.11	0.14	0.16	0.15	0.11	0.09	0.02	0.02		
	Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
	Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
	Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152		

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.05	0.07	0.10	0.11	0.10	0.07	0.06	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.08	0.11	0.14	0.16	0.15	0.11	0.09	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.12	0.17	0.19	0.21	0.22	0.21	0.19	0.17	0.12
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		1.35-PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.13	0.20	0.22	0.26	0.27	0.26	0.23	0.20	0.13
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.12	0.17	0.19	0.21	0.22	0.21	0.19	0.17	0.12
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		1.35-PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.13	0.20	0.22	0.26	0.27	0.26	0.23	0.20	0.13
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.10	0.15	0.17	0.19	0.20	0.19	0.17	0.15	0.10
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		1.35-PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.11	0.18	0.20	0.24	0.25	0.24	0.20	0.18	0.11
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.10	0.15	0.17	0.19	0.20	0.19	0.17	0.15	0.10
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.11	0.18	0.20	0.24	0.25	0.24	0.20	0.18	0.11
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
		PP+CM+1.5·Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.05	0.11	0.12	0.15	0.16	0.15	0.13	0.11	0.06	
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.5·Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.07	0.14	0.16	0.19	0.21	0.20	0.16	0.14	0.07	
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.5·Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.05	0.10	0.12	0.15	0.16	0.15	0.13	0.11	0.06	
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.5·Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.07	0.13	0.16	0.19	0.21	0.20	0.16	0.14	0.07	
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.01	0.02
		PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.48	0.66	0.90	0.98	0.90	0.66	0.48	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.51	0.70	0.95	1.03	0.95	0.70	0.51	0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.48	0.66	0.90	0.98	0.90	0.66	0.48	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.51	0.70	0.95	1.03	0.95	0.70	0.51	0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.46	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.49	0.67	0.93	1.01	0.93	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.53	0.71	0.95	1.03	0.95	0.71	0.53	0.04
			Mz	-0.02	-0.02	-0.01	-0.01	0.00	0.01	0.01	0.02	0.02
		1.35·PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.56	0.75	1.00	1.08	1.00	0.75	0.56	0.06
			Mz	-0.02	-0.02	-0.01	-0.01	0.00	0.01	0.01	0.02	0.02
		PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.53	0.71	0.95	1.03	0.95	0.71	0.53	0.04
			Mz	-0.02	-0.02	-0.01	-0.01	0.00	0.01	0.01	0.02	0.02
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.56	0.75	1.00	1.08	1.00	0.75	0.56	0.06
			Mz	-0.02	-0.02	-0.01	-0.01	0.00	0.01	0.01	0.02	0.02
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.51	0.69	0.93	1.01	0.93	0.69	0.51	0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.54	0.73	0.98	1.06	0.98	0.73	0.54	0.04
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.51	0.69	0.93	1.01	0.93	0.69	0.51	0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		1.35-PP+1.35-CM+1.05-Q+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.54	0.73	0.98	1.06	0.98	0.73	0.54	0.04
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+CM+1.5-Q+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.25	0.35	0.49	0.53	0.49	0.35	0.25	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-Q+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.28	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-Q+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.25	0.35	0.49	0.53	0.49	0.35	0.25	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.28	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.10	0.37	0.47	0.60	0.64	0.60	0.47	0.37	0.10
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		1.35-PP+CM+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.11	0.39	0.50	0.65	0.69	0.65	0.50	0.40	0.11
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		PP+1.35-CM+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.10	0.36	0.47	0.60	0.64	0.60	0.47	0.37	0.10
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		1.35-PP+1.35-CM+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.11	0.39	0.50	0.64	0.69	0.65	0.50	0.40	0.11
			Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
		PP+CM+1.05-Q+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.35	0.45	0.58	0.62	0.58	0.45	0.35	0.08
			Mz	-0.03	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.03
		1.35-PP+CM+1.05-Q+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.09	0.37	0.48	0.62	0.67	0.63	0.48	0.38	0.09
			Mz	-0.03	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.03
		PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.34	0.45	0.58	0.62	0.58	0.45	0.35	0.08
			Mz	-0.03	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.03
		1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.09	0.37	0.48	0.62	0.67	0.63	0.48	0.38	0.09
			Mz	-0.03	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.03
		PP+CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.30	0.40	0.54	0.58	0.54	0.40	0.30	0.04
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.33	0.44	0.58	0.63	0.58	0.44	0.33	0.05
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.30	0.40	0.54	0.58	0.54	0.40	0.30	0.04
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35-PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.33	0.44	0.58	0.63	0.58	0.44	0.33	0.05
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N9/N10	Madera	PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.09	0.09	0.09	0.06	0.04	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.10	0.07	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.09	0.09	0.08	0.06	0.04	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.10	0.07	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.06	0.11	0.13	0.16	0.17	0.16	0.13	0.11	0.06
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35-PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.14	0.17	0.20	0.21	0.20	0.17	0.14	0.07
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	0.06	0.11	0.13	0.16	0.17	0.16	0.13	0.11	0.06
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35·PP+1.35·CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.14	0.17	0.20	0.21	0.20	0.17	0.14	0.07
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35·PP+CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+1.35·CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.06	0.08	0.10	0.11	0.10	0.08	0.06	0.01
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.09	0.11	0.15	0.16	0.15	0.11	0.09	0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.06	0.08	0.10	0.11	0.10	0.08	0.06	0.01
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.09	0.11	0.15	0.16	0.15	0.11	0.09	0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.47	0.65	0.90	0.98	0.89	0.65	0.47	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.50	0.69	0.94	1.02	0.94	0.69	0.50	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.47	0.65	0.89	0.98	0.89	0.65	0.47	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.50	0.69	0.94	1.02	0.94	0.69	0.50	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.44	0.62	0.87	0.95	0.87	0.62	0.44	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.47	0.66	0.91	0.99	0.91	0.66	0.47	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.44	0.62	0.87	0.95	0.86	0.62	0.44	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.47	0.66	0.91	0.99	0.91	0.66	0.47	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.49	0.67	0.91	0.99	0.91	0.67	0.49	0.00
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35-PP+CM+0.9-V+1.5-N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	0.02	0.52	0.71	0.96	1.04	0.96	0.71	0.52	0.01
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.49	0.67	0.91	0.99	0.91	0.67	0.49	0.00
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.52	0.71	0.96	1.04	0.96	0.71	0.52	0.01
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.46	-0.03
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.46	-0.03
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.24	0.34	0.47	0.51	0.47	0.33	0.23	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.27	0.37	0.51	0.56	0.51	0.37	0.26	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.23	0.34	0.47	0.51	0.47	0.33	0.23	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.31	0.41	0.54	0.59	0.54	0.41	0.31	0.04
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35·PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.34	0.44	0.59	0.63	0.59	0.44	0.34	0.05
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.31	0.41	0.54	0.59	0.54	0.41	0.31	0.04
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.34	0.44	0.59	0.63	0.59	0.44	0.34	0.05
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.28	0.38	0.51	0.56	0.51	0.38	0.28	0.01
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.31	0.41	0.56	0.60	0.56	0.41	0.31	0.02
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.28	0.38	0.51	0.56	0.51	0.38	0.28	0.01
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.31	0.41	0.56	0.60	0.56	0.41	0.31	0.02
			Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.02	0.02	0.03
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	-0.01	0.25	0.35	0.49	0.53	0.49	0.35	0.25	-0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.28	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
			N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.25	0.35	0.49	0.53	0.49	0.35	0.25	-0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.25	0.35	0.49	0.53	0.49	0.35	0.25	-0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
			N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.28	0.39	0.53	0.58	0.53	0.39	0.28	-0.01
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.28	0.39	0.53	0.58	0.53	0.39	0.28	-0.01
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
			N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N11/N12	Madera	PP+CM	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.09	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		1.35·PP+CM	Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.12	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		PP+1.35·CM	Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.09	0.10	0.13	0.13	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		1.35·PP+1.35·CM	Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.149	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.12	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		PP+CM+1.5·Q	Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.07	0.08	0.07	0.05	0.03	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		1.35·PP+CM+1.5·Q	Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.06	0.09	0.12	0.13	0.12	0.08	0.06	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.07	0.08	0.07	0.05	0.03	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.149	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.06	0.09	0.12	0.13	0.12	0.08	0.06	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.10	0.12	0.14	0.15	0.14	0.12	0.10	0.05
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.5·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.06	0.13	0.16	0.19	0.20	0.19	0.15	0.13	0.06
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.151	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.10	0.12	0.14	0.15	0.14	0.12	0.10	0.05
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.149	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.06	0.13	0.16	0.19	0.20	0.19	0.15	0.13	0.06
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+CM+1.05·Q+1.5·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.07	0.08	0.11	0.12	0.11	0.08	0.06	0.01
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.05·Q+1.5·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.10	0.12	0.15	0.16	0.15	0.12	0.09	0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.151	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.07	0.08	0.11	0.11	0.11	0.08	0.06	0.01

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02	
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.149	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.03	0.10	0.12	0.15	0.16	0.15	0.12	0.09	0.02	
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02	
		PP+CM+1.5·Q+0.9·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.04	0.06	0.08	0.09	0.08	0.06	0.04	-0.01	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		1.35·PP+CM+1.5·Q+0.9·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.09	0.07	0.00	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		PP+1.35·CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.151	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.110	0.154	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.04	0.06	0.08	0.09	0.08	0.06	0.04	-0.01	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.149	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.09	0.07	0.00	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		PP+CM+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.47	0.65	0.89	0.97	0.89	0.65	0.46	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.521	-1.086	-0.868	-0.434	0.001	0.436	0.871	1.088	1.523	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.50	0.68	0.94	1.02	0.93	0.68	0.49	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35·CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.051	1.470	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.47	0.65	0.89	0.97	0.89	0.65	0.46	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.436	0.871	1.089	1.524	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.50	0.68	0.94	1.02	0.93	0.68	0.49	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.43	0.61	0.85	0.93	0.85	0.61	0.43	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.521	-1.086	-0.868	-0.434	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.46	0.65	0.90	0.98	0.90	0.65	0.46	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.051	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.43	0.61	0.85	0.93	0.85	0.61	0.43	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.436	0.871	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.46	0.65	0.90	0.98	0.90	0.64	0.46	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.90	0.98	0.90	0.66	0.47	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.521	-1.086	-0.868	-0.434	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.70	0.95	1.03	0.95	0.69	0.50	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.051	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.90	0.98	0.90	0.66	0.47	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.436	0.871	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.69	0.95	1.03	0.94	0.69	0.50	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.44	0.62	0.86	0.94	0.86	0.62	0.44	-0.05
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.521	-1.086	-0.868	-0.434	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.47	0.66	0.91	0.99	0.91	0.66	0.47	-0.04

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.051	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.44	0.62	0.86	0.94	0.86	0.62	0.44	-0.05
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.436	0.871	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.47	0.66	0.91	0.99	0.91	0.65	0.47	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·Q+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.22	0.32	0.46	0.50	0.46	0.32	0.22	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.25	0.36	0.50	0.55	0.50	0.36	0.25	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.22	0.32	0.46	0.50	0.45	0.32	0.22	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.619	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.25	0.36	0.50	0.55	0.50	0.36	0.25	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.29	0.39	0.53	0.57	0.53	0.39	0.29	0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.5·V+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.32	0.43	0.57	0.62	0.57	0.43	0.32	0.03
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.29	0.39	0.53	0.57	0.52	0.39	0.29	0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.619	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.32	0.43	0.57	0.62	0.57	0.43	0.32	0.03
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.26	0.36	0.49	0.53	0.49	0.35	0.25	-0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.29	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.26	0.36	0.49	0.53	0.49	0.35	0.25	-0.02
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.619	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.29	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.23	0.33	0.47	0.51	0.47	0.33	0.23	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.23	0.33	0.47	0.51	0.46	0.33	0.23	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.619	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N13/N14	Madera	PP+CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.12	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.07	0.07	0.07	0.04	0.02	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.07	0.07	0.06	0.04	0.02	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.13	0.10	0.08	0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.12	0.10	0.08	0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.08	0.09	0.08	0.06	0.04	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+1.5·V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.09	0.07	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.08	0.09	0.08	0.06	0.04	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.09	0.07	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·Q+0.9·V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.07	0.07	0.07	0.04	0.02	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.07	0.07	0.06	0.04	0.02	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5-N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.65	0.89	0.97	0.89	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.089	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.64	0.89	0.97	0.89	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05-Q+1.5-N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.42	0.60	0.85	0.93	0.84	0.60	0.42	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.05-Q+1.5-N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.089	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.05-Q+1.5-N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.42	0.60	0.84	0.93	0.84	0.60	0.42	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9-V+1.5-N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.467	-1.047	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.65	0.89	0.97	0.89	0.64	0.46	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+0.9·V+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.089	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.64	0.89	0.97	0.89	0.64	0.46	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.467	-1.047	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.42	0.60	0.85	0.93	0.84	0.60	0.42	-0.07
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.089	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.42	0.60	0.84	0.93	0.84	0.60	0.42	-0.07
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·Q+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.808	-0.577	-0.461	-0.230	0.002	0.234	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.27	0.37	0.51	0.55	0.51	0.37	0.27	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.862	-0.615	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.30	0.41	0.55	0.60	0.55	0.41	0.30	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.808	-0.577	-0.461	-0.230	0.002	0.234	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.27	0.37	0.51	0.55	0.51	0.37	0.27	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.30	0.41	0.55	0.60	0.55	0.41	0.30	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.23	0.33	0.47	0.51	0.46	0.33	0.23	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.862	-0.615	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.808	-0.577	-0.461	-0.230	0.002	0.234	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.23	0.33	0.46	0.51	0.46	0.33	0.23	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.36	0.26	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.862	-0.615	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.808	-0.577	-0.461	-0.230	0.002	0.234	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N15/N16	Madera	PP+CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.041	0.002	0.046	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.12	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.115	-0.057	0.002	0.061	0.120	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.13	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.041	0.002	0.046	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.03	0.02	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.115	-0.057	0.002	0.061	0.120	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.04	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.09	0.11	0.13	0.14	0.13	0.10	0.09	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.12	0.14	0.18	0.19	0.18	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.041	0.002	0.046	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.09	0.11	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.115	-0.057	0.002	0.061	0.120	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.12	0.14	0.18	0.19	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.09	0.09	0.09	0.06	0.04	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	0.01	0.07	0.10	0.13	0.14	0.13	0.10	0.07	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.041	0.002	0.046	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.09	0.09	0.08	0.06	0.04	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.115	-0.057	0.002	0.061	0.120	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.07	0.10	0.13	0.14	0.13	0.09	0.07	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.07	0.07	0.06	0.04	0.02	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.041	0.002	0.046	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.07	0.07	0.06	0.04	0.02	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.115	-0.057	0.002	0.061	0.120	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.64	0.89	0.97	0.88	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.466	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.64	0.89	0.97	0.88	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.02	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.41	-0.07	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.63	0.44	-0.06	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.466	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.41	-0.07	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.88	0.63	0.44	-0.06	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.89	0.97	0.89	0.64	0.46	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.466	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.65	0.89	0.97	0.89	0.64	0.46	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	-0.06	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.466	-1.047	-0.837	-0.418	0.002	0.422	0.841	1.051	1.471
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.63	0.45	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.44	0.49	0.44	0.31	0.21	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.24	0.35	0.49	0.53	0.49	0.34	0.24	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.808	-0.577	-0.461	-0.229	0.002	0.234	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.44	0.49	0.44	0.31	0.20	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.24	0.35	0.49	0.53	0.49	0.34	0.23	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.28	0.38	0.51	0.56	0.51	0.38	0.27	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.31	0.41	0.56	0.60	0.55	0.41	0.30	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Vz	-0.808	-0.577	-0.461	-0.229	0.002	0.234	0.465	0.581	0.812	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.01	0.28	0.38	0.51	0.55	0.51	0.37	0.27	0.00	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.31	0.41	0.56	0.60	0.55	0.41	0.30	0.02	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.23	0.33	0.47	0.51	0.47	0.33	0.23	-0.04	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.808	-0.577	-0.461	-0.229	0.002	0.234	0.465	0.581	0.812	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.23	0.33	0.47	0.51	0.46	0.33	0.23	-0.04	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.44	0.31	0.21	-0.06	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.808	-0.577	-0.461	-0.229	0.002	0.234	0.465	0.581	0.812	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.44	0.31	0.21	-0.06	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.496	0.619	0.866	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.34	0.24	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N17/N18	Madera	PP+CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.12	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.13	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-Q	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-Q	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.03	0.02	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.12	0.13	0.12	0.09	0.07	0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+CM+1.5-V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.11	0.13	0.17	0.18	0.16	0.13	0.10	0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35-CM+1.5-V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.12	0.13	0.12	0.09	0.07	0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.5-V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.11	0.13	0.17	0.18	0.16	0.13	0.10	0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05-Q+1.5-V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.08	0.08	0.08	0.05	0.03	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+CM+1.05-Q+1.5-V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.06	0.09	0.12	0.13	0.12	0.09	0.06	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35-CM+1.05-Q+1.5-V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.08	0.08	0.07	0.05	0.03	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.06	0.09	0.12	0.13	0.12	0.08	0.06	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5-Q+0.9-V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.151	-0.107	-0.086	-0.042	0.001	0.045	0.088	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.03	0.06	0.07	0.06	0.03	0.01	-0.04
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35-PP+CM+1.5-Q+0.9-V	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.204	-0.145	-0.116	-0.057	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.10	0.12	0.10	0.07	0.04	-0.03

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.150	-0.107	-0.085	-0.042	0.002	0.045	0.089	0.111	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.03	0.06	0.07	0.06	0.03	0.01	-0.04
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.061	0.119	0.149	0.208
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.10	0.11	0.10	0.07	0.04	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.64	0.89	0.97	0.88	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.421	0.841	1.051	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.64	0.89	0.97	0.88	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.41	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.63	0.44	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.421	0.841	1.051	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.41	-0.07
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.88	0.63	0.44	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.46	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+0.9·V+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.67	0.49	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.421	0.841	1.051	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.45	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.67	0.48	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.41	0.60	0.84	0.92	0.84	0.59	0.41	-0.07
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.520	-1.086	-0.868	-0.433	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.44	0.63	0.88	0.97	0.88	0.63	0.44	-0.06
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.467	-1.047	-0.837	-0.418	0.002	0.421	0.841	1.051	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.41	0.60	0.84	0.92	0.84	0.59	0.41	-0.08
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-1.520	-1.085	-0.868	-0.433	0.002	0.437	0.872	1.089	1.524
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.44	0.63	0.88	0.97	0.88	0.63	0.44	-0.06
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.44	0.49	0.44	0.31	0.21	-0.06

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.616	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.24	0.35	0.49	0.53	0.49	0.34	0.24	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.44	0.49	0.44	0.31	0.21	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.495	0.619	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.24	0.34	0.49	0.53	0.49	0.34	0.23	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.27	0.37	0.50	0.54	0.50	0.37	0.26	0.00
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.862	-0.616	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.30	0.40	0.55	0.59	0.54	0.40	0.29	0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.27	0.37	0.50	0.54	0.50	0.36	0.26	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.495	0.619	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.30	0.40	0.54	0.59	0.54	0.40	0.29	0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.22	0.32	0.46	0.50	0.46	0.32	0.22	-0.05
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.862	-0.616	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.25	0.36	0.50	0.55	0.50	0.36	0.25	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.22	0.32	0.46	0.50	0.45	0.32	0.22	-0.05
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.495	0.619	0.866
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.25	0.36	0.50	0.55	0.50	0.36	0.25	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5-Q+0.9-V+0.75-N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.809	-0.577	-0.462	-0.230	0.001	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.44	0.48	0.44	0.30	0.20	-0.07
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
		Vz	-0.862	-0.616	-0.492	-0.245	0.001	0.248	0.495	0.618	0.865	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.05	0.24	0.34	0.48	0.53	0.48	0.34	0.23	-0.05	
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
	PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
		Vz	-0.809	-0.577	-0.461	-0.230	0.002	0.233	0.465	0.581	0.812	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.06	0.21	0.31	0.44	0.48	0.44	0.30	0.20	-0.07	
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
	1.35-PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
		Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.249	0.495	0.619	0.866	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.05	0.23	0.34	0.48	0.53	0.48	0.34	0.23	-0.06	
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N19/N20	Madera	PP+CM	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.153
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.12	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
		1.35-PP+1.35-CM	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.5-Q	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.153	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.02	0.04	0.07	0.07	0.07	0.04	0.02	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35-PP+CM+1.5-Q	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35-CM+1.5-Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.02	0.04	0.07	0.07	0.06	0.04	0.02	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35-PP+1.35-CM+1.5-Q	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.5-V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.153	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.03	0.08	0.10	0.12	0.13	0.12	0.10	0.08	0.03	
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02	
		1.35-PP+CM+1.5-V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.04	0.11	0.14	0.17	0.18	0.17	0.13	0.11	0.04	
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02	
		PP+1.35-CM+1.5-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.03	0.08	0.10	0.12	0.13	0.12	0.10	0.08	0.03	
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02	
		1.35-PP+1.35-CM+1.5-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.04	0.11	0.14	0.17	0.18	0.17	0.13	0.11	0.04	
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02	
		PP+CM+1.05-Q+1.5-V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.153	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.08	0.09	0.08	0.06	0.04	-0.01
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+CM+1.05·Q+1.5·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.09	0.13	0.14	0.13	0.09	0.07	0.00
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35·CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.08	0.09	0.08	0.05	0.04	-0.02
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.09	0.13	0.14	0.13	0.09	0.07	0.00
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.5·Q+0.9·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.151	-0.108	-0.086	-0.042	0.001	0.045	0.088	0.110	0.153
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.07	0.07	0.06	0.04	0.02	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.204	-0.146	-0.116	-0.058	0.001	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.151	-0.107	-0.086	-0.042	0.002	0.045	0.089	0.110	0.154
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.204	-0.145	-0.116	-0.057	0.002	0.060	0.119	0.148	0.207
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.08	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.46	0.65	0.89	0.97	0.89	0.64	0.46	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.521	-1.086	-0.869	-0.434	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
		PP+1.35·CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.46	0.64	0.89	0.97	0.89	0.64	0.46	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.49	0.68	0.93	1.02	0.93	0.68	0.49	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.06	0.42	0.60	0.85	0.93	0.84	0.60	0.42	-0.07	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+1.05·Q+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.521	-1.086	-0.869	-0.434	0.001	0.436	0.871	1.088	1.523	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.05	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35·CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.06	0.42	0.60	0.84	0.93	0.84	0.60	0.42	-0.07	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.46	0.64	0.89	0.97	0.89	0.64	0.46	-0.03	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
		1.35·PP+CM+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.521	-1.086	-0.869	-0.434	0.001	0.436	0.871	1.088	1.523	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.01	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
		PP+1.35·CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.46	0.64	0.89	0.97	0.88	0.64	0.46	-0.03	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.467	-1.048	-0.838	-0.418	0.001	0.421	0.840	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.521	-1.086	-0.869	-0.434	0.001	0.436	0.871	1.088	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.467	-1.047	-0.838	-0.418	0.002	0.421	0.841	1.050	1.470
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-1.520	-1.086	-0.868	-0.433	0.002	0.436	0.871	1.089	1.523
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.27	0.37	0.50	0.55	0.50	0.37	0.27	0.00
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		1.35-PP+CM+1.5-V+0.75-N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.30	0.41	0.55	0.60	0.55	0.41	0.30	0.01
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35-CM+1.5-V+0.75-N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.27	0.37	0.50	0.55	0.50	0.37	0.27	0.00
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35-PP+1.35-CM+1.5-V+0.75-N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.30	0.41	0.55	0.60	0.55	0.40	0.30	0.01
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.05-Q+1.5-V+0.75-N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
			Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.23	0.33	0.46	0.51	0.46	0.33	0.23	-0.04
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
	1.35-PP+CM+1.05-Q+1.5-V+0.75-N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
		Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.03	0.26	0.37	0.51	0.56	0.51	0.36	0.26	-0.03	
		Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02	
	PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
		Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.04	0.23	0.33	0.46	0.51	0.46	0.33	0.23	-0.04	
		Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02	
	1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
		Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.03	0.26	0.37	0.51	0.55	0.51	0.36	0.26	-0.03	
		Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02	
	PP+CM+1.5-Q+0.9-V+0.75-N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
		Vz	-0.809	-0.578	-0.462	-0.230	0.001	0.233	0.464	0.580	0.812	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.05	0.21	0.31	0.45	0.49	0.44	0.31	0.21	-0.06	
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
	1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
		Vz	-0.863	-0.616	-0.492	-0.246	0.001	0.248	0.495	0.618	0.865	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05	
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
	PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
		Vz	-0.809	-0.577	-0.462	-0.230	0.002	0.233	0.465	0.580	0.812	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.44	0.31	0.21	-0.06
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.862	-0.615	-0.492	-0.245	0.002	0.248	0.495	0.618	0.865
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N21/N22	Madera	PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.13	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.07	0.08	0.07	0.05	0.03	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.06	0.09	0.12	0.13	0.12	0.08	0.06	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.07	0.08	0.07	0.05	0.03	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.06	0.09	0.12	0.13	0.12	0.08	0.06	-0.01	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.06	0.08	0.11	0.12	0.11	0.08	0.06	0.01	0.01
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		1.35-PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.09	0.12	0.15	0.16	0.15	0.12	0.09	0.02	0.02
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.06	0.08	0.11	0.12	0.11	0.08	0.06	0.01	0.01
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		1.35-PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.09	0.12	0.15	0.16	0.15	0.12	0.09	0.02	0.02
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.07	0.08	0.07	0.04	0.03	-0.03	-0.03
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		1.35-PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.06	0.08	0.12	0.13	0.12	0.08	0.06	-0.01	-0.01
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.03	0.05	0.07	0.08	0.07	0.04	0.02	-0.03	-0.03
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.06	0.08	0.12	0.13	0.11	0.08	0.05	-0.01	-0.01
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02	-0.03
		PP+CM+1.5-Q+0.9-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		1.35·PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.89	0.97	0.89	0.65	0.46	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.50	0.68	0.94	1.02	0.94	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.89	0.97	0.89	0.65	0.46	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.50	0.68	0.94	1.02	0.93	0.68	0.49	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.43	0.61	0.85	0.93	0.85	0.61	0.43	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.46	0.65	0.90	0.98	0.90	0.65	0.46	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.43	0.61	0.85	0.93	0.85	0.61	0.43	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.46	0.65	0.90	0.98	0.90	0.65	0.46	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.45	0.64	0.88	0.96	0.88	0.63	0.45	-0.03
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		1.35·PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.48	0.67	0.92	1.01	0.92	0.67	0.48	-0.02
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.45	0.64	0.88	0.96	0.88	0.63	0.45	-0.03
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.48	0.67	0.92	1.01	0.92	0.67	0.48	-0.02
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.63	0.45	-0.06
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.41	-0.07
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.63	0.44	-0.06
			Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02
		PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.22	0.32	0.46	0.50	0.46	0.32	0.22	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.25	0.36	0.50	0.55	0.50	0.36	0.25	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.22	0.32	0.46	0.50	0.45	0.32	0.22	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.25	0.36	0.50	0.55	0.50	0.36	0.25	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.26	0.36	0.49	0.53	0.49	0.35	0.25	-0.01
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.29	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.25	0.36	0.49	0.53	0.49	0.35	0.25	-0.02
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.28	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.22	0.32	0.45	0.50	0.45	0.32	0.22	-0.05
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.25	0.35	0.50	0.54	0.50	0.35	0.25	-0.04
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.22	0.32	0.45	0.50	0.45	0.32	0.22	-0.05
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.25	0.35	0.50	0.54	0.50	0.35	0.25	-0.04
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.44	0.49	0.44	0.31	0.21	-0.06
	1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
		Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05	
	PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
		Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.06	0.21	0.31	0.44	0.49	0.44	0.31	0.21	-0.06	
	1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
		Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.04	0.24	0.35	0.49	0.54	0.49	0.34	0.24	-0.05	
		N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
		Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Mz	0.02	0.01	0.01	0.01	0.00	-0.01	-0.01	-0.01	-0.02	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N23/N24	Madera	PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.05	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.09	0.09	0.09	0.06	0.04	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.10	0.07	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.04	0.06	0.08	0.09	0.08	0.06	0.04	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.07	0.10	0.13	0.14	0.13	0.10	0.07	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.05	0.07	0.09	0.10	0.09	0.07	0.05	0.00
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.08	0.10	0.14	0.15	0.14	0.10	0.08	0.01
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+1.35·CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.05	0.07	0.09	0.10	0.09	0.07	0.05	0.00
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+1.35·CM+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.08	0.10	0.14	0.15	0.14	0.10	0.08	0.01
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+1.35·CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.07	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.08	0.11	0.12	0.11	0.08	0.05	-0.02
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.03
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.05	0.08	0.11	0.12	0.11	0.07	0.05	-0.02
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.47	0.65	0.90	0.98	0.89	0.65	0.47	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.50	0.69	0.94	1.02	0.94	0.69	0.50	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.89	0.98	0.89	0.65	0.47	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.50	0.69	0.94	1.02	0.94	0.69	0.50	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.44	0.62	0.87	0.95	0.87	0.62	0.44	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.47	0.66	0.91	0.99	0.91	0.66	0.47	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.44	0.62	0.86	0.95	0.86	0.62	0.44	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.47	0.66	0.91	0.99	0.91	0.66	0.47	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.45	0.63	0.87	0.95	0.87	0.63	0.45	-0.04
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.48	0.67	0.92	1.00	0.92	0.67	0.48	-0.02
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.45	0.63	0.87	0.95	0.87	0.63	0.45	-0.04
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.48	0.67	0.92	1.00	0.92	0.67	0.48	-0.03
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.05
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.06
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.23	0.34	0.47	0.51	0.47	0.33	0.23	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.23	0.33	0.47	0.51	0.47	0.33	0.23	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.26	0.37	0.51	0.56	0.51	0.37	0.26	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.24	0.34	0.48	0.52	0.48	0.34	0.24	-0.03
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.27	0.38	0.52	0.57	0.52	0.38	0.27	-0.01
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.24	0.34	0.48	0.52	0.48	0.34	0.24	-0.03
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.27	0.38	0.52	0.57	0.52	0.38	0.27	-0.02
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.04
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.05
			Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.04
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.21	0.31	0.45	0.49	0.45	0.31	0.21	-0.06
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.24	0.35	0.49	0.54	0.49	0.35	0.24	-0.04
			Mz	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N25/N26	Madera	PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.08	0.10	0.13	0.14	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.04	0.11	0.14	0.17	0.18	0.17	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.05	0.07	0.10	0.11	0.10	0.07	0.06	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.08	0.11	0.14	0.16	0.15	0.11	0.09	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
		PP+1.35-CM+1.5-Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.05	0.07	0.10	0.11	0.10	0.07	0.06	0.01	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.08	0.11	0.14	0.16	0.15	0.11	0.09	0.02	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	-0.02	0.00	0.03	0.04	0.03	0.00	-0.01	-0.07	-0.07
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05	-0.05
		1.35-PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	0.01	0.04	0.07	0.08	0.07	0.04	0.01	-0.05	-0.05
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05	-0.05
		PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	-0.02	0.00	0.03	0.04	0.03	0.00	-0.01	-0.07	-0.07
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05	-0.05
		1.35-PP+1.35-CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.01	0.04	0.07	0.08	0.07	0.04	0.01	-0.05	-0.05
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05	-0.05
		PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	-0.04	-0.02	0.01	0.02	0.01	-0.02	-0.03	-0.09	-0.09
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05	-0.05
		1.35-PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	-0.01	0.02	0.05	0.06	0.05	0.02	-0.01	-0.07	-0.07
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05	-0.05
		PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	-0.04	-0.02	0.01	0.02	0.01	-0.02	-0.03	-0.09	-0.09
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05	-0.05
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206	0.206

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	-0.01	0.02	0.05	0.06	0.05	0.02	-0.01	-0.07
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05
		PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.01	0.01	0.04	0.05	0.04	0.02	0.00	-0.05
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.02	0.05	0.08	0.10	0.09	0.05	0.03	-0.04
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.152	-0.109	-0.087	-0.044	0.000	0.044	0.087	0.109	0.152
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.01	0.01	0.04	0.05	0.04	0.02	0.00	-0.05
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.206	-0.147	-0.117	-0.059	0.000	0.059	0.117	0.147	0.206
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.02	0.05	0.08	0.10	0.09	0.05	0.03	-0.04
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.90	0.98	0.90	0.66	0.48	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.70	0.95	1.03	0.95	0.70	0.51	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.90	0.98	0.90	0.66	0.48	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.70	0.95	1.03	0.95	0.70	0.51	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.46	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m	
		1.35·PP+CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.49	0.68	0.93	1.01	0.93	0.68	0.49	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.46	0.64	0.88	0.96	0.88	0.64	0.46	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.49	0.67	0.93	1.01	0.93	0.68	0.49	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07	
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	
		1.35·PP+CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.05	
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	
		PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.42	0.60	0.84	0.92	0.84	0.60	0.42	-0.07	
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.45	0.64	0.89	0.97	0.89	0.64	0.45	-0.05	
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	0.40	0.58	0.82	0.90	0.82	0.58	0.40	-0.09	
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	0.43	0.62	0.87	0.95	0.87	0.62	0.43	-0.07	
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-1.469	-1.049	-0.839	-0.420	0.000	0.420	0.839	1.049	1.469	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	0.40	0.58	0.82	0.90	0.82	0.58	0.40	-0.09
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-1.522	-1.087	-0.870	-0.435	0.000	0.435	0.870	1.087	1.522
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	0.43	0.62	0.87	0.95	0.87	0.62	0.43	-0.07
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.25	0.35	0.49	0.53	0.49	0.35	0.25	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.28	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.25	0.35	0.49	0.53	0.49	0.35	0.25	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.28	0.39	0.53	0.58	0.53	0.39	0.28	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	0.18	0.28	0.42	0.46	0.42	0.28	0.18	-0.09
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05
		1.35·PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	0.21	0.32	0.46	0.51	0.46	0.32	0.21	-0.07
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05
		PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	0.18	0.28	0.41	0.46	0.42	0.28	0.18	-0.09
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	0.21	0.32	0.46	0.51	0.46	0.32	0.21	-0.07
			Mz	0.05	0.03	0.03	0.01	0.00	-0.01	-0.03	-0.03	-0.05

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.11	0.16	0.26	0.40	0.44	0.40	0.26	0.16	-0.11
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.19	0.30	0.44	0.49	0.44	0.30	0.19	-0.09
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.11	0.16	0.26	0.39	0.44	0.40	0.26	0.16	-0.11
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.19	0.30	0.44	0.49	0.44	0.30	0.19	-0.09
			Mz	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.05
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	0.19	0.29	0.43	0.47	0.43	0.29	0.19	-0.07
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	0.22	0.33	0.47	0.52	0.47	0.33	0.22	-0.06
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.810	-0.579	-0.463	-0.232	0.000	0.232	0.463	0.579	0.810
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	0.19	0.29	0.43	0.47	0.43	0.29	0.19	-0.07
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
			Vz	-0.864	-0.617	-0.494	-0.247	0.000	0.247	0.494	0.617	0.864
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.22	0.33	0.47	0.52	0.47	0.33	0.22	-0.06
			Mz	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N7/N6	Madera	PP+CM	N	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-Q	N	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-Q	N	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35-PP+CM+1.5-V	N	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+1.35-CM+1.5-V	N	-5.998	-5.998	-5.998	-5.998	-5.998	-5.998	-5.998	-5.998	-5.998

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35-PP+1.35-CM+1.5-V	N	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967	-5.967
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+CM+1.05-Q+1.5-V	N	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.02	0.02	0.02	0.00	-0.01	-0.04
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35-PP+CM+1.05-Q+1.5-V	N	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.067	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.02	-0.05
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+1.35-CM+1.05-Q+1.5-V	N	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848	-5.848
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.02	0.02	0.02	0.00	-0.01	-0.04
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816	-5.816
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.067	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.02	-0.05
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+CM+1.5-Q+0.9-V	N	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02	-0.04
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04
		1.35-PP+CM+1.5-Q+0.9-V	N	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315	-3.315
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02	-0.05
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04
		PP+1.35-CM+1.5-Q+0.9-V	N	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02	-0.04
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-3.314	-3.314	-3.314	-3.314	-3.314	-3.314	-3.314	-3.314	-3.314
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02	-0.05
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04
		PP+CM+1.5·N	N	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.02	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.02	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.02	-0.01	-0.01	0.00	0.01	0.02	0.02	0.03	0.04
		1.35·PP+CM+0.9·V+1.5·N	N	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	
			Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	
		Mz	-0.02	-0.01	-0.01	0.00	0.01	0.02	0.02	0.03	0.04		
		PP+1.35·CM+0.9·V+1.5·N	N	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192	-3.192
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02	
			Mz	-0.02	-0.01	-0.01	0.00	0.01	0.02	0.02	0.03	0.04	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	
			Mz	-0.02	-0.01	-0.01	0.00	0.01	0.02	0.02	0.03	0.04	
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03	
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010	-3.010
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04	
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041	-3.041
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03	
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-3.009	-3.009	-3.009	-3.009	-3.009	-3.009	-3.009	-3.009	-3.009	-3.009
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04	
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	
		PP+CM+1.5·Q+0.75·N	N	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.02	-0.04	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+1.5·Q+0.75·N	N	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35·CM+1.5·Q+0.75·N	N	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.02	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.526	0.526	0.526	0.526	0.526	0.526	0.526	0.526	0.526
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	-5.814	-5.814	-5.814	-5.814	-5.814	-5.814	-5.814	-5.814	-5.814
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35·PP+CM+1.5·V+0.75·N	N	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.074	-0.055	-0.035	-0.016	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+1.35·CM+1.5·V+0.75·N	N	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782	-5.782
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.074	-0.055	-0.035	-0.016	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.02	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.065	-0.046	-0.026	-0.007	0.012	0.032	0.051	0.071	0.090
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.02	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631	-5.631
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.065	-0.046	-0.026	-0.007	0.012	0.032	0.051	0.071	0.090
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	-0.03	-0.02	-0.01	0.00	0.01	0.03	0.04	0.05	0.06
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04	
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-3.130	-3.130	-3.130	-3.130	-3.130	-3.130	-3.130	-3.130	-3.130	-3.130
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.02	-0.05	
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	
			N	-3.161	-3.161	-3.161	-3.161	-3.161	-3.161	-3.161	-3.161	-3.161	-3.161
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04	
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	
			N	-3.129	-3.129	-3.129	-3.129	-3.129	-3.129	-3.129	-3.129	-3.129	-3.129
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.02	-0.05	
			Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02	0.03	0.04	

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
N7/N10	Madera	PP+CM	N	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		1.35·PP+CM+1.5·Q	N	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.01	0.01	0.03	0.03	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.5·Q	N	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.5·Q	N	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.01	0.01	0.03	0.03	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·V	N	2.751	2.751	2.751	2.751	2.751	2.751	2.751	2.751	2.751	2.751
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		1.35·PP+CM+1.5·V	N	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		PP+1.35·CM+1.5·V	N	2.759	2.759	2.759	2.759	2.759	2.759	2.759	2.759	2.759	2.759
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V	N	2.802	2.802	2.802	2.802	2.802	2.802	2.802	2.802	2.802	2.802
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V	N	3.013	3.013	3.013	3.013	3.013	3.013	3.013	3.013	3.013	3.013
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.066	-0.051	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.03	0.02	0.01	-0.01	-0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+1.5·V	N	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.049	0.069	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	3.021	3.021	3.021	3.021	3.021	3.021	3.021	3.021	3.021	3.021
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vz	-0.066	-0.051	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	-0.01	0.01	0.02	0.02	0.03	0.02	0.01	-0.01	
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	3.064	3.064	3.064	3.064	3.064	3.064	3.064	3.064	3.064	3.064
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.049	0.069	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		PP+CM+1.5-Q+0.9-V	N	2.084	2.084	2.084	2.084	2.084	2.084	2.084	2.084	2.084	2.084
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		1.35-PP+CM+1.5-Q+0.9-V	N	2.127	2.127	2.127	2.127	2.127	2.127	2.127	2.127	2.127	2.127
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.04	0.03	0.01	-0.01	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		PP+1.35-CM+1.5-Q+0.9-V	N	2.092	2.092	2.092	2.092	2.092	2.092	2.092	2.092	2.092	2.092
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	2.135	2.135	2.135	2.135	2.135	2.135	2.135	2.135	2.135	2.135
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.04	0.03	0.01	-0.01	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	
		PP+CM+1.5-N	N	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040	0.054	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-N	N	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054	0.074	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-N	N	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040	0.054	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-N	N	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054	0.074	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.894	0.894	0.894	0.894	0.894	0.894	0.894	0.894	0.894
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.858	0.858	0.858	0.858	0.858	0.858	0.858	0.858	0.858
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	2.151	2.151	2.151	2.151	2.151	2.151	2.151	2.151	2.151
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+0.9·V+1.5·N	N	2.195	2.195	2.195	2.195	2.195	2.195	2.195	2.195	2.195
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054	0.074
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+0.9·V+1.5·N	N	2.159	2.159	2.159	2.159	2.159	2.159	2.159	2.159	2.159
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	2.202	2.202	2.202	2.202	2.202	2.202	2.202	2.202	2.202
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054	0.074
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	2.413	2.413	2.413	2.413	2.413	2.413	2.413	2.413	2.413
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.421	2.421	2.421	2.421	2.421	2.421	2.421	2.421	2.421
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.465	2.465	2.465	2.465	2.465	2.465	2.465	2.465	2.465
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·Q+0.75·N	N	0.742	0.742	0.742	0.742	0.742	0.742	0.742	0.742	0.742
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.793	0.793	0.793	0.793	0.793	0.793	0.793	0.793	0.793
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·V+0.75·N	N	2.972	2.972	2.972	2.972	2.972	2.972	2.972	2.972	2.972
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.060	-0.046	-0.031	-0.017	-0.002	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·V+0.75·N	N	3.015	3.015	3.015	3.015	3.015	3.015	3.015	3.015	3.015
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·V+0.75·N	N	2.980	2.980	2.980	2.980	2.980	2.980	2.980	2.980	2.980
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.060	-0.046	-0.031	-0.017	-0.002	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	0.00	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	3.023	3.023	3.023	3.023	3.023	3.023	3.023	3.023	3.023
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	3.234	3.234	3.234	3.234	3.234	3.234	3.234	3.234	3.234
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.067	-0.053	-0.038	-0.024	-0.009	0.005	0.019	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.00
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	3.278	3.278	3.278	3.278	3.278	3.278	3.278	3.278	3.278
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.088	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.067	-0.053	-0.038	-0.024	-0.009	0.005	0.019	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.00
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.285	3.285	3.285	3.285	3.285	3.285	3.285	3.285	3.285
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.088	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	2.305	2.305	2.305	2.305	2.305	2.305	2.305	2.305	2.305
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	2.348	2.348	2.348	2.348	2.348	2.348	2.348	2.348	2.348
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	2.313	2.313	2.313	2.313	2.313	2.313	2.313	2.313	2.313
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	2.356	2.356	2.356	2.356	2.356	2.356	2.356	2.356	2.356
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N11/N10	Madera	PP+CM	N	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35·CM	N	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.763	0.763	0.763	0.763	0.763	0.763	0.763	0.763	0.763
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35-PP+CM+1.5·Q	N	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.5·Q	N	0.769	0.769	0.769	0.769	0.769	0.769	0.769	0.769	0.769
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35-PP+1.35·CM+1.5·Q	N	0.831	0.831	0.831	0.831	0.831	0.831	0.831	0.831	0.831
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·V	N	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+CM+1.5·V	N	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·V	N	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V	N	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V	N	-1.230	-1.230	-1.230	-1.230	-1.230	-1.230	-1.230	-1.230	-1.230
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.051	-0.037	-0.023	-0.008	0.006	0.021	0.035	0.049	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+1.5·V	N	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168	-1.168
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.045	0.065	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.051	-0.037	-0.023	-0.008	0.006	0.021	0.035	0.049	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-1.163	-1.163	-1.163	-1.163	-1.163	-1.163	-1.163	-1.163	-1.163
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.045	0.065	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·Q+0.9·V	N	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V	N	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-N	N	0.804	0.804	0.804	0.804	0.804	0.804	0.804	0.804	0.804
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-N	N	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-N	N	0.809	0.809	0.809	0.809	0.809	0.809	0.809	0.809	0.809
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-N	N	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05-Q+1.5-N	N	1.203	1.203	1.203	1.203	1.203	1.203	1.203	1.203	1.203
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.05-Q+1.5-N	N	1.265	1.265	1.265	1.265	1.265	1.265	1.265	1.265	1.265
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.05-Q+1.5-N	N	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	1.270	1.270	1.270	1.270	1.270	1.270	1.270	1.270	1.270
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9-V+1.5-N	N	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+0.9·V+1.5·N	N	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+0.9·V+1.5·N	N	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.75·N	N	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.068
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	1.130	1.130	1.130	1.130	1.130	1.130	1.130	1.130	1.130
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		PP+1.35·CM+1.5·Q+0.75·N	N	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.136
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·V+0.75·N	N	-1.324	-1.324	-1.324	-1.324	-1.324	-1.324	-1.324	-1.324	-1.324	-1.324
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-1.262	-1.262	-1.262	-1.262	-1.262	-1.262	-1.262	-1.262	-1.262	-1.262
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.061	0.080	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-1.318	-1.318	-1.318	-1.318	-1.318	-1.318	-1.318	-1.318	-1.318	-1.318
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.061	0.080	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.925	-0.925	-0.925	-0.925	-0.925	-0.925	-0.925	-0.925	-0.925	-0.925
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.051	-0.036	-0.022	-0.007	0.007	0.021	0.036	0.050	0.065	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.070	-0.051	-0.031	-0.012	0.007	0.027	0.046	0.066	0.085	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.051	-0.036	-0.022	-0.007	0.007	0.021	0.036	0.050	0.065	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.070	-0.051	-0.031	-0.012	0.007	0.027	0.046	0.066	0.085	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N11/N14	Madera	PP+CM	N	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.794	0.794	0.794	0.794	0.794	0.794	0.794	0.794	0.794

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35-PP+CM+1.5-Q	N	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
		PP+1.35-CM+1.5-Q	N	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35-PP+1.35-CM+1.5-Q	N	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
		PP+CM+1.5-V	N	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35-PP+CM+1.5-V	N	1.323	1.323	1.323	1.323	1.323	1.323	1.323	1.323	1.323	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35-CM+1.5-V	N	1.277	1.277	1.277	1.277	1.277	1.277	1.277	1.277	1.277	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35-PP+1.35-CM+1.5-V	N	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05-Q+1.5-V	N	1.691	1.691	1.691	1.691	1.691	1.691	1.691	1.691	1.691	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35-PP+CM+1.05-Q+1.5-V	N	1.747	1.747	1.747	1.747	1.747	1.747	1.747	1.747	1.747	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	1.701	1.701	1.701	1.701	1.701	1.701	1.701	1.701	1.701
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·Q+0.9·V	N	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	1.497	1.497	1.497	1.497	1.497	1.497	1.497	1.497	1.497
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	1.507	1.507	1.507	1.507	1.507	1.507	1.507	1.507	1.507
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·N	N	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.746

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+1.5·N	N	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.160
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+1.5·N	N	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.169	1.169	1.169	1.169	1.169	1.169	1.169	1.169	1.169	1.169
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+0.9·V+1.5·N	N	1.327	1.327	1.327	1.327	1.327	1.327	1.327	1.327	1.327	1.327
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.761	1.761	1.761	1.761	1.761	1.761	1.761	1.761	1.761
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.817	1.817	1.817	1.817	1.817	1.817	1.817	1.817	1.817
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·Q+0.75·N	N	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.049
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.105	1.105	1.105	1.105	1.105	1.105	1.105	1.105	1.105
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V+0.75·N	N	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V+0.75·N	N	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02	
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	1.579	1.579	1.579	1.579	1.579	1.579	1.579	1.579	1.579	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·V+0.75·N	N	1.937	1.937	1.937	1.937	1.937	1.937	1.937	1.937	1.937	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.04	0.03	0.03	0.02	0.00	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	1.993	1.993	1.993	1.993	1.993	1.993	1.993	1.993	1.993	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	1.946	1.946	1.946	1.946	1.946	1.946	1.946	1.946	1.946	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.04	0.03	0.03	0.02	0.00	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	2.002	2.002	2.002	2.002	2.002	2.002	2.002	2.002	2.002	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		PP+CM+1.5·Q+0.9·V+0.75·N	N	1.687	1.687	1.687	1.687	1.687	1.687	1.687	1.687	1.687	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	1.743	1.743	1.743	1.743	1.743	1.743	1.743	1.743	1.743	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.696	1.696	1.696	1.696	1.696	1.696	1.696	1.696	1.696	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.753	1.753	1.753	1.753	1.753	1.753	1.753	1.753	1.753	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
N15/N14	Madera	PP+CM	N	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+CM+1.5-Q	N	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35-CM+1.5-Q	N	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.5-Q	N	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5-V	N	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+1.5·V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V	N	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·V	N	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·V	N	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·V	N	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·V	N	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.517	0.517	0.517	0.517	0.517	0.517	0.517	0.517	0.517	0.517
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V	N	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	0.843	0.843	0.843	0.843	0.843	0.843	0.843	0.843	0.843	0.843
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.852	0.852	0.852	0.852	0.852	0.852	0.852	0.852	0.852
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·N	N	0.869	0.869	0.869	0.869	0.869	0.869	0.869	0.869	0.869
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	1.374	1.374	1.374	1.374	1.374	1.374	1.374	1.374	1.374
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+1.5·N	N	1.444	1.444	1.444	1.444	1.444	1.444	1.444	1.444	1.444
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+1.5·N	N	1.384	1.384	1.384	1.384	1.384	1.384	1.384	1.384	1.384
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.454	1.454	1.454	1.454	1.454	1.454	1.454	1.454	1.454
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+0.9·V+1.5·N	N	0.692	0.692	0.692	0.692	0.692	0.692	0.692	0.692	0.692
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	0.762	0.762	0.762	0.762	0.762	0.762	0.762	0.762	0.762
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268	1.268
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.207	1.207	1.207	1.207	1.207	1.207	1.207	1.207	1.207
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.277	1.277	1.277	1.277	1.277	1.277	1.277	1.277	1.277
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.75·N	N	1.270	1.270	1.270	1.270	1.270	1.270	1.270	1.270	1.270
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.279
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V+0.75·N	N	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V+0.75·N	N	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V+0.75·N	N	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.838	0.838	0.838	0.838	0.838	0.838	0.838	0.838	0.838
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V+0.75·N	N	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
		Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02	
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
	PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.103	1.103	1.103	1.103	1.103	1.103	1.103	1.103	1.103	
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
		Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01	
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
	1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.173	1.173	1.173	1.173	1.173	1.173	1.173	1.173	1.173	
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
		Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02	
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N15/N18	Madera	PP+CM	N	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.258	0.258	0.258	0.258	0.258	0.258	0.258	0.258	0.258
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		1.35-PP+1.35-CM	N	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.5-Q	N	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35-PP+CM+1.5-Q	N	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35-CM+1.5-Q	N	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
	1.35-PP+1.35-CM+1.5-Q	N	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	
		Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078		
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
		My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02		
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
	PP+CM+1.5-V	N	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03		
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.35-PP+CM+1.5-V	N	-0.218	-0.218	-0.218	-0.218	-0.218	-0.218	-0.218	-0.218	-0.218	-0.218	
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04		
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+1.35-CM+1.5-V	N	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03		
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.35-PP+1.35-CM+1.5-V	N	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04		
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+CM+1.05-Q+1.5-V	N	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058		

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·V	N	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·V	N	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V	N	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	0.654	0.654	0.654	0.654	0.654	0.654	0.654	0.654	0.654
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	0.603	0.603	0.603	0.603	0.603	0.603	0.603	0.603	0.603
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·N	N	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		PP+1.35·CM+1.5·N	N	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·N	N	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		1.35·PP+CM+1.05·Q+1.5·N	N	1.242	1.242	1.242	1.242	1.242	1.242	1.242	1.242	1.242	1.242
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		PP+1.35·CM+1.05·Q+1.5·N	N	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.252	1.252	1.252	1.252	1.252	1.252	1.252	1.252	1.252	1.252
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		PP+CM+0.9·V+1.5·N	N	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+0.9·V+1.5·N	N	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35·CM+0.9·V+1.5·N	N	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.897	0.897	0.897	0.897	0.897	0.897	0.897	0.897	0.897
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.906	0.906	0.906	0.906	0.906	0.906	0.906	0.906	0.906
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·Q+0.75·N	N	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	1.142	1.142	1.142	1.142	1.142	1.142	1.142	1.142	1.142
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		1.35-PP+CM+1.5-V+0.75-N	N	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35-CM+1.5-V+0.75-N	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-V+0.75-N	N	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05-Q+1.5-V+0.75-N	N	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.03	0.01	-0.01	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.35-PP+CM+1.05-Q+1.5-V+0.75-N	N	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	
		Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02		
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.462	0.462	0.462	0.462	0.462	0.462	0.462	0.462	0.462	0.462	
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		My	-0.01	0.01	0.03	0.03	0.04	0.03	0.03	0.01	-0.01		
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	
		Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02		
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+CM+1.5-Q+0.9-V+0.75-N	N	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058		
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
		My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00		
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
	1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	
		Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078		
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
		My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01		
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
	PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	
		Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058		

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
			My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N19/N18	Madera	PP+CM	N	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.954	0.954	0.954	0.954	0.954	0.954	0.954	0.954	0.954
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q	N	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q	N	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.965
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q	N	1.035	1.035	1.035	1.035	1.035	1.035	1.035	1.035	1.035

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01	
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
		PP+CM+1.5-V	N	1.476	1.476	1.476	1.476	1.476	1.476	1.476	1.476	1.476	1.476
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35-PP+CM+1.5-V	N	1.546	1.546	1.546	1.546	1.546	1.546	1.546	1.546	1.546	1.546
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35-CM+1.5-V	N	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35-PP+1.35-CM+1.5-V	N	1.557	1.557	1.557	1.557	1.557	1.557	1.557	1.557	1.557	1.557
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.05-Q+1.5-V	N	1.982	1.982	1.982	1.982	1.982	1.982	1.982	1.982	1.982	1.982
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+CM+1.05-Q+1.5-V	N	2.052	2.052	2.052	2.052	2.052	2.052	2.052	2.052	2.052	2.052
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35-CM+1.05-Q+1.5-V	N	1.993	1.993	1.993	1.993	1.993	1.993	1.993	1.993	1.993	1.993
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	2.063	2.063	2.063	2.063	2.063	2.063	2.063	2.063	2.063	2.063
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5-Q+0.9-V	N	1.701	1.701	1.701	1.701	1.701	1.701	1.701	1.701	1.701	1.701
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	1.771	1.771	1.771	1.771	1.771	1.771	1.771	1.771	1.771
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	1.712	1.712	1.712	1.712	1.712	1.712	1.712	1.712	1.712
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	1.782	1.782	1.782	1.782	1.782	1.782	1.782	1.782	1.782
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·N	N	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.884	0.884	0.884	0.884	0.884	0.884	0.884	0.884	0.884
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.954	0.954	0.954	0.954	0.954	0.954	0.954	0.954	0.954
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	1.379	1.379	1.379	1.379	1.379	1.379	1.379	1.379	1.379
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+1.5·N	N	1.449	1.449	1.449	1.449	1.449	1.449	1.449	1.449	1.449
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+1.5·N	N	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+0.9·V+1.5·N	N	1.620	1.620	1.620	1.620	1.620	1.620	1.620	1.620	1.620
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	1.690	1.690	1.690	1.690	1.690	1.690	1.690	1.690	1.690
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	1.631	1.631	1.631	1.631	1.631	1.631	1.631	1.631	1.631
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	1.701	1.701	1.701	1.701	1.701	1.701	1.701	1.701	1.701
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	2.126	2.126	2.126	2.126	2.126	2.126	2.126	2.126	2.126
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196	2.196
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.137	2.137	2.137	2.137	2.137	2.137	2.137	2.137	2.137
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.207	2.207	2.207	2.207	2.207	2.207	2.207	2.207	2.207
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·Q+0.75·N	N	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275	1.275
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	1.345	1.345	1.345	1.345	1.345	1.345	1.345	1.345	1.345
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	1.286	1.286	1.286	1.286	1.286	1.286	1.286	1.286	1.286
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.356
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V+0.75·N	N	1.797	1.797	1.797	1.797	1.797	1.797	1.797	1.797	1.797
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.5·V+0.75·N	N	1.867	1.867	1.867	1.867	1.867	1.867	1.867	1.867	1.867
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.5·V+0.75·N	N	1.808	1.808	1.808	1.808	1.808	1.808	1.808	1.808	1.808
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	1.878	1.878	1.878	1.878	1.878	1.878	1.878	1.878	1.878
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	2.303	2.303	2.303	2.303	2.303	2.303	2.303	2.303	2.303
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.01	0.00
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	2.373	2.373	2.373	2.373	2.373	2.373	2.373	2.373	2.373

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.01	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	2.314	2.314	2.314	2.314	2.314	2.314	2.314	2.314	2.314	
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.01	0.00	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
			1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384
				Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
				Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
				Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.01	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
			PP+CM+1.5·Q+0.9·V+0.75·N	N	2.022	2.022	2.022	2.022	2.022	2.022	2.022	2.022	2.022
				Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
				Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
				Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
			1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	2.092	2.092	2.092	2.092	2.092	2.092	2.092	2.092	2.092
				Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
				Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
				Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
			PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	2.033	2.033	2.033	2.033	2.033	2.033	2.033	2.033	2.033
				Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
				Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
				Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
			1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	2.103	2.103	2.103	2.103	2.103	2.103	2.103	2.103	2.103
				Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
				Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
				Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My		-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N19/N22	Madera	PP+CM	N	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q	N	0.841	0.841	0.841	0.841	0.841	0.841	0.841	0.841	0.841
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q	N	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q	N	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V	N	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·V	N	-1.797	-1.797	-1.797	-1.797	-1.797	-1.797	-1.797	-1.797	-1.797
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·V	N	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·V	N	-1.790	-1.790	-1.790	-1.790	-1.790	-1.790	-1.790	-1.790	-1.790
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05·Q+1.5·V	N	-1.429	-1.429	-1.429	-1.429	-1.429	-1.429	-1.429	-1.429	-1.429
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+1.5·V	N	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	-1.422	-1.422	-1.422	-1.422	-1.422	-1.422	-1.422	-1.422	-1.422
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-1.366	-1.366	-1.366	-1.366	-1.366	-1.366	-1.366	-1.366	-1.366
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.9·V	N	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V	N	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428	-0.428
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-0.372	-0.372	-0.372	-0.372	-0.372	-0.372	-0.372	-0.372	-0.372
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·N	N	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-N	N	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-N	N	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-N	N	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05-Q+1.5-N	N	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35-PP+CM+1.05-Q+1.5-N	N	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.151
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35-CM+1.05-Q+1.5-N	N	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+0.9-V+1.5-N	N	-0.548	-0.548	-0.548	-0.548	-0.548	-0.548	-0.548	-0.548	-0.548
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+CM+0.9-V+1.5-N	N	-0.492	-0.492	-0.492	-0.492	-0.492	-0.492	-0.492	-0.492	-0.492
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35-CM+0.9-V+1.5-N	N	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-0.486	-0.486	-0.486	-0.486	-0.486	-0.486	-0.486	-0.486	-0.486
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.75·N	N	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-1.600	-1.600	-1.600	-1.600	-1.600	-1.600	-1.600	-1.600	-1.600
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-1.544	-1.544	-1.544	-1.544	-1.544	-1.544	-1.544	-1.544	-1.544
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-1.177	-1.177	-1.177	-1.177	-1.177	-1.177	-1.177	-1.177	-1.177
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-1.120	-1.120	-1.120	-1.120	-1.120	-1.120	-1.120	-1.120	-1.120
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Vz		-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084	
	Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	My		0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02	
	Mz		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
N23/N22	Madera	PP+CM	N	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+CM+1.5-Q	N	0.838	0.838	0.838	0.838	0.838	0.838	0.838	0.838	0.838	0.838
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		PP+1.35·CM+1.5·Q	N	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q	N	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V	N	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·V	N	3.038	3.038	3.038	3.038	3.038	3.038	3.038	3.038	3.038
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·V	N	2.986	2.986	2.986	2.986	2.986	2.986	2.986	2.986	2.986
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·V	N	3.048	3.048	3.048	3.048	3.048	3.048	3.048	3.048	3.048
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05·Q+1.5·V	N	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.064	-0.049	-0.035	-0.021	-0.006	0.008	0.023	0.037	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35·PP+CM+1.05·Q+1.5·V	N	3.437	3.437	3.437	3.437	3.437	3.437	3.437	3.437	3.437
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.084	-0.065	-0.045	-0.026	-0.007	0.013	0.032	0.052	0.071
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+1.35·CM+1.05·Q+1.5·V	N	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.064	-0.049	-0.035	-0.021	-0.006	0.008	0.023	0.037	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	3.447	3.447	3.447	3.447	3.447	3.447	3.447	3.447	3.447
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.084	-0.065	-0.045	-0.026	-0.007	0.013	0.032	0.052	0.071

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+CM+1.5·Q+0.9·V	N	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	2.448	2.448	2.448	2.448	2.448	2.448	2.448	2.448	2.448
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·N	N	0.816	0.816	0.816	0.816	0.816	0.816	0.816	0.816	0.816
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.888	0.888	0.888	0.888	0.888	0.888	0.888	0.888	0.888
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		1.35-PP+CM+1.05·Q+1.5·N	N	1.277	1.277	1.277	1.277	1.277	1.277	1.277	1.277	1.277	
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			PP+1.35·CM+1.05·Q+1.5·N	N	1.225	1.225	1.225	1.225	1.225	1.225	1.225	1.225	1.225
		Vy		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz		-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050	
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My		-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	
		Mz		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35-PP+1.35·CM+1.05·Q+1.5·N		N	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			PP+CM+0.9·V+1.5·N	N	2.478	2.478	2.478	2.478	2.478	2.478	2.478	2.478	2.478
		Vy		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz		-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055	
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My		-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
		Mz		0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
		1.35-PP+CM+0.9·V+1.5·N		N	2.540	2.540	2.540	2.540	2.540	2.540	2.540	2.540	2.540
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
			PP+1.35·CM+0.9·V+1.5·N	N	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488
		Vy		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz		-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055	
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My		-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
		Mz		0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
		1.35-PP+1.35·CM+0.9·V+1.5·N		N	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
			PP+CM+1.05·Q+0.9·V+1.5·N	N	2.877	2.877	2.877	2.877	2.877	2.877	2.877	2.877	2.877
		Vy		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz		-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050	
		Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My		-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	
		Mz		0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
		1.35-PP+CM+1.05·Q+0.9·V+1.5·N		N	2.939	2.939	2.939	2.939	2.939	2.939	2.939	2.939	2.939
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
			PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.887	2.887	2.887	2.887	2.887	2.887	2.887	2.887	2.887
		Vy		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz		-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.949	2.949	2.949	2.949	2.949	2.949	2.949	2.949	2.949
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.75·N	N	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	1.143	1.143	1.143	1.143	1.143	1.143	1.143	1.143	1.143
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	1.153	1.153	1.153	1.153	1.153	1.153	1.153	1.153	1.153
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V+0.75·N	N	3.281	3.281	3.281	3.281	3.281	3.281	3.281	3.281	3.281
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·V+0.75·N	N	3.343	3.343	3.343	3.343	3.343	3.343	3.343	3.343	3.343
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.080	-0.061	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·V+0.75·N	N	3.291	3.291	3.291	3.291	3.291	3.291	3.291	3.291	3.291
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	3.353	3.353	3.353	3.353	3.353	3.353	3.353	3.353	3.353
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.080	-0.061	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		PP+CM+1.05·Q+1.5·V+0.75·N	N	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.065	-0.050	-0.036	-0.021	-0.007	0.007	0.022	0.036	0.051	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00	0.00
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	3.742	3.742	3.742	3.742	3.742	3.742	3.742	3.742	3.742	3.742
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.085	-0.066	-0.046	-0.027	-0.007	0.012	0.032	0.051	0.070	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.065	-0.050	-0.036	-0.021	-0.007	0.007	0.022	0.036	0.051	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00	0.00
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.085	-0.066	-0.046	-0.027	-0.007	0.012	0.032	0.051	0.070	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.5·Q+0.9·V+0.75·N	N	2.743	2.743	2.743	2.743	2.743	2.743	2.743	2.743	2.743	2.743
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	2.805	2.805	2.805	2.805	2.805	2.805	2.805	2.805	2.805	2.805
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	0.00
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	2.753	2.753	2.753	2.753	2.753	2.753	2.753	2.753	2.753	2.753
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	0.01
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	2.815	2.815	2.815	2.815	2.815	2.815	2.815	2.815	2.815	2.815
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	0.00
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N23/N26	Madera	PP+CM	N	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-Q	N	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.03	0.03	0.01	-0.01	-0.05
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-Q	N	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	0.553	0.553	0.553	0.553	0.553	0.553	0.553	0.553	0.553
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.03	0.03	0.01	-0.01	-0.05
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35-PP+CM+1.5-V	N	-3.381	-3.381	-3.381	-3.381	-3.381	-3.381	-3.381	-3.381	-3.381
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+1.35-CM+1.5-V	N	-3.421	-3.421	-3.421	-3.421	-3.421	-3.421	-3.421	-3.421	-3.421

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35-PP+1.35-CM+1.5-V	N	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+CM+1.05-Q+1.5-V	N	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162	-3.162
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.051	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+CM+1.05-Q+1.5-V	N	-3.118	-3.118	-3.118	-3.118	-3.118	-3.118	-3.118	-3.118	-3.118
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.069	-0.049	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35-CM+1.05-Q+1.5-V	N	-3.159	-3.159	-3.159	-3.159	-3.159	-3.159	-3.159	-3.159	-3.159
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.051	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-3.115	-3.115	-3.115	-3.115	-3.115	-3.115	-3.115	-3.115	-3.115
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.069	-0.049	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5-Q+0.9-V	N	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35-PP+CM+1.5-Q+0.9-V	N	-1.583	-1.583	-1.583	-1.583	-1.583	-1.583	-1.583	-1.583	-1.583
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35-CM+1.5-Q+0.9-V	N	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624	-1.624
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.01	0.01	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·N	N	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.620	0.620	0.620	0.620	0.620	0.620	0.620	0.620	0.620
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.839	0.839	0.839	0.839	0.839	0.839	0.839	0.839	0.839
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.883	0.883	0.883	0.883	0.883	0.883	0.883	0.883	0.883
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	-1.560	-1.560	-1.560	-1.560	-1.560	-1.560	-1.560	-1.560	-1.560
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+0.9·V+1.5·N	N	-1.516	-1.516	-1.516	-1.516	-1.516	-1.516	-1.516	-1.516	-1.516

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+0.9·V+1.5·N	N	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-1.513	-1.513	-1.513	-1.513	-1.513	-1.513	-1.513	-1.513	-1.513
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.297	-1.297	-1.297	-1.297	-1.297	-1.297	-1.297	-1.297	-1.297
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.294	-1.294	-1.294	-1.294	-1.294	-1.294	-1.294	-1.294	-1.294
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·Q+0.75·N	N	0.728	0.728	0.728	0.728	0.728	0.728	0.728	0.728	0.728
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	-3.203	-3.203	-3.203	-3.203	-3.203	-3.203	-3.203	-3.203	-3.203
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.055	-0.041	-0.026	-0.012	0.002	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35·PP+CM+1.5·V+0.75·N	N	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160	-3.160
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+1.35·CM+1.5·V+0.75·N	N	-3.200	-3.200	-3.200	-3.200	-3.200	-3.200	-3.200	-3.200	-3.200
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.055	-0.041	-0.026	-0.012	0.002	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-3.157	-3.157	-3.157	-3.157	-3.157	-3.157	-3.157	-3.157	-3.157
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-2.941	-2.941	-2.941	-2.941	-2.941	-2.941	-2.941	-2.941	-2.941
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.048	-0.034	-0.019	-0.005	0.009	0.024	0.038	0.053	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-2.897	-2.897	-2.897	-2.897	-2.897	-2.897	-2.897	-2.897	-2.897
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068	0.088
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-2.938	-2.938	-2.938	-2.938	-2.938	-2.938	-2.938	-2.938	-2.938
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.048	-0.034	-0.019	-0.005	0.009	0.024	0.038	0.053	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-2.894	-2.894	-2.894	-2.894	-2.894	-2.894	-2.894	-2.894	-2.894
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068	0.088
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
		1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	-1.362	-1.362	-1.362	-1.362	-1.362	-1.362	-1.362	-1.362	-1.362	-1.362
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04	
		PP+1.35-CM+1.5-Q+0.9-V+0.75-N	Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
			N	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35-PP+1.35-CM+1.5-Q+0.9-V+0.75-N	My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
			N	-1.360	-1.360	-1.360	-1.360	-1.360	-1.360	-1.360	-1.360	-1.360	-1.360
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
N27/N26	Madera	PP+CM	N	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q	N	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.02	0.00	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q	N	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q	N	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.02	0.00	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V	N	7.551	7.551	7.551	7.551	7.551	7.551	7.551	7.551	7.551
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.01	0.01	-0.01	-0.02
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		1.35·PP+CM+1.5·V	N	7.583	7.583	7.583	7.583	7.583	7.583	7.583	7.583	7.583
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		PP+1.35·CM+1.5·V	N	7.556	7.556	7.556	7.556	7.556	7.556	7.556	7.556	7.556
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.01	0.01	-0.01	-0.02
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		1.35·PP+1.35·CM+1.5·V	N	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		PP+CM+1.05·Q+1.5·V	N	7.702	7.702	7.702	7.702	7.702	7.702	7.702	7.702	7.702
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	-0.01
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		1.35·PP+CM+1.05·Q+1.5·V	N	7.734	7.734	7.734	7.734	7.734	7.734	7.734	7.734	7.734
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.089	-0.069	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.00	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		PP+1.35·CM+1.05·Q+1.5·V	N	7.707	7.707	7.707	7.707	7.707	7.707	7.707	7.707	7.707
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	-0.01
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	7.739	7.739	7.739	7.739	7.739	7.739	7.739	7.739	7.739
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.089	-0.069	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.00	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		PP+CM+1.5·Q+0.9·V	N	4.790	4.790	4.790	4.790	4.790	4.790	4.790	4.790	4.790
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	0.00
			Mz	0.05	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
		1.35·PP+CM+1.5·Q+0.9·V	N	4.822	4.822	4.822	4.822	4.822	4.822	4.822	4.822	4.822
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.02	0.00	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.05	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
		PP+1.35·CM+1.5·Q+0.9·V	N	4.795	4.795	4.795	4.795	4.795	4.795	4.795	4.795	4.795
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	0.00
			Mz	0.05	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	4.827	4.827	4.827	4.827	4.827	4.827	4.827	4.827	4.827
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.02	0.00	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.05	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
		PP+CM+1.5·N	N	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.02

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	4.945	4.945	4.945	4.945	4.945	4.945	4.945	4.945	4.945	4.945
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02
		1.35·PP+CM+0.9·V+1.5·N	N	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02	-0.02
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02
		PP+1.35·CM+0.9·V+1.5·N	N	4.950	4.950	4.950	4.950	4.950	4.950	4.950	4.950	4.950	4.950
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	4.982	4.982	4.982	4.982	4.982	4.982	4.982	4.982	4.982	4.982
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02	-0.02
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.02
		PP+CM+1.05·Q+0.9·V+1.5·N	N	5.097	5.097	5.097	5.097	5.097	5.097	5.097	5.097	5.097	5.097
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.01
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.03
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	5.129	5.129	5.129	5.129	5.129	5.129	5.129	5.129	5.129	5.129
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.05	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.03	
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	5.102	5.102	5.102	5.102	5.102	5.102	5.102	5.102	5.102	5.102
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.03
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	5.134	5.134	5.134	5.134	5.134	5.134	5.134	5.134	5.134	5.134
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.03
		PP+CM+1.5·Q+0.75·N	N	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	0.541	0.541	0.541	0.541	0.541	0.541	0.541	0.541	0.541	0.541
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	7.737	7.737	7.737	7.737	7.737	7.737	7.737	7.737	7.737	7.737
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.061	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	0.00	-0.02	-0.02
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04	-0.04
		1.35·PP+CM+1.5·V+0.75·N	N	7.769	7.769	7.769	7.769	7.769	7.769	7.769	7.769	7.769	7.769
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.016	0.035	0.055	0.074	0.074
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.02	0.00	-0.02	-0.02
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04	-0.04
		PP+1.35·CM+1.5·V+0.75·N	N	7.742	7.742	7.742	7.742	7.742	7.742	7.742	7.742	7.742	7.742
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.061	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	0.00	-0.02	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	7.774	7.774	7.774	7.774	7.774	7.774	7.774	7.774	7.774
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.016	0.035	0.055	0.074
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.02	0.00	-0.02
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		PP+CM+1.05·Q+1.5·V+0.75·N	N	7.888	7.888	7.888	7.888	7.888	7.888	7.888	7.888	7.888
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.069	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.02	0.03	0.02	0.02	0.00
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	7.920	7.920	7.920	7.920	7.920	7.920	7.920	7.920	7.920
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.090	-0.071	-0.051	-0.032	-0.012	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	7.893	7.893	7.893	7.893	7.893	7.893	7.893	7.893	7.893
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.069	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.02	0.03	0.02	0.02	0.00
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	7.925	7.925	7.925	7.925	7.925	7.925	7.925	7.925	7.925
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.090	-0.071	-0.051	-0.032	-0.012	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	0.07	0.06	0.04	0.03	0.02	0.00	-0.01	-0.03	-0.04
		PP+CM+1.5·Q+0.9·V+0.75·N	N	4.975	4.975	4.975	4.975	4.975	4.975	4.975	4.975	4.975
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	0.04	0.03	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00
			Mz	0.04	0.03	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	4.981	4.981	4.981	4.981	4.981	4.981	4.981	4.981	4.981
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	0.04	0.03	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00
			Mz	0.04	0.03	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N25/N28	Madera	PP+CM	N	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35·CM	N	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5·Q	N	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q	N	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35·CM+1.5·Q	N	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343	-0.343
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02	-0.06
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V	N	-7.538	-7.538	-7.538	-7.538	-7.538	-7.538	-7.538	-7.538	-7.538
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.01	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35-PP+CM+1.5·V	N	-7.570	-7.570	-7.570	-7.570	-7.570	-7.570	-7.570	-7.570	-7.570
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.00	-0.02	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+1.35·CM+1.5·V	N	-7.539	-7.539	-7.539	-7.539	-7.539	-7.539	-7.539	-7.539	-7.539
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.01	0.02	0.01	0.00	-0.01	-0.03
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35·PP+1.35·CM+1.5·V	N	-7.571	-7.571	-7.571	-7.571	-7.571	-7.571	-7.571	-7.571	-7.571
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.075	-0.056	-0.036	-0.017	0.003	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.00	-0.02	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+CM+1.05·Q+1.5·V	N	-7.689	-7.689	-7.689	-7.689	-7.689	-7.689	-7.689	-7.689	-7.689
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.02	0.02	0.01	0.00	-0.02	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35·PP+CM+1.05·Q+1.5·V	N	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.067	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.00	-0.02	-0.05
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+1.35·CM+1.05·Q+1.5·V	N	-7.690	-7.690	-7.690	-7.690	-7.690	-7.690	-7.690	-7.690	-7.690
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.02	0.02	0.01	0.00	-0.02	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722	-7.722
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.067	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.00	-0.02	-0.05
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+CM+1.5·Q+0.9·V	N	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.02	0.02	0.01	0.00	-0.02	-0.05
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04	-0.05
		1.35·PP+CM+1.5·Q+0.9·V	N	-4.809	-4.809	-4.809	-4.809	-4.809	-4.809	-4.809	-4.809	-4.809
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.00	-0.02	-0.06
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04	-0.05
		PP+1.35·CM+1.5·Q+0.9·V	N	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777	-4.777
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.043	-0.029	-0.015	0.000	0.014	0.029	0.043	0.057	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.02	0.02	0.02	0.01	0.00	-0.02	-0.05
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04	-0.05

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-4.810	-4.810	-4.810	-4.810	-4.810	-4.810	-4.810	-4.810	-4.810
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.063	-0.043	-0.024	-0.005	0.015	0.034	0.054	0.073	0.093
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.00	-0.02	-0.06
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04	-0.05
		PP+CM+1.5-N	N	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-N	N	-0.498	-0.498	-0.498	-0.498	-0.498	-0.498	-0.498	-0.498	-0.498
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.02	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-N	N	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.35-PP+1.35-CM+1.5-N	N	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.02	0.01	0.02	0.03	0.03	0.03	0.02	-0.01	-0.03	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+CM+1.05-Q+1.5-N	N	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
		Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.35-PP+CM+1.05-Q+1.5-N	N	-0.649	-0.649	-0.649	-0.649	-0.649	-0.649	-0.649	-0.649	-0.649	
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
		Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+1.35-CM+1.05-Q+1.5-N	N	-0.618	-0.618	-0.618	-0.618	-0.618	-0.618	-0.618	-0.618	-0.618	
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
		Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.35-PP+1.35-CM+1.05-Q+1.5-N	N	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
		Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+CM+0.9-V+1.5-N	N	-4.932	-4.932	-4.932	-4.932	-4.932	-4.932	-4.932	-4.932	-4.932	
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
		Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.03
			Mz	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		1.35·PP+CM+0.9·V+1.5·N	N	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01	-0.04
			Mz	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		PP+1.35·CM+0.9·V+1.5·N	N	-4.933	-4.933	-4.933	-4.933	-4.933	-4.933	-4.933	-4.933	-4.933
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-0.053	-0.039	-0.024	-0.010	0.004	0.019	0.033	0.048	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.03
			Mz	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-4.965	-4.965	-4.965	-4.965	-4.965	-4.965	-4.965	-4.965	-4.965
			Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
			Vz	-0.073	-0.053	-0.034	-0.014	0.005	0.024	0.044	0.063	0.083
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01	-0.04
			Mz	0.02	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-5.084	-5.084	-5.084	-5.084	-5.084	-5.084	-5.084	-5.084	-5.084
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-5.116	-5.116	-5.116	-5.116	-5.116	-5.116	-5.116	-5.116	-5.116
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.05
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-5.085	-5.085	-5.085	-5.085	-5.085	-5.085	-5.085	-5.085	-5.085
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.071
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-5.117	-5.117	-5.117	-5.117	-5.117	-5.117	-5.117	-5.117	-5.117
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.064	-0.045	-0.025	-0.006	0.014	0.033	0.053	0.072	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.05
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
		PP+CM+1.5·Q+0.75·N	N	-0.496	-0.496	-0.496	-0.496	-0.496	-0.496	-0.496	-0.496	-0.496
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		PP+1.35-CM+1.5-Q+0.75-N	N	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497	-0.497
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q+0.75-N	N	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V+0.75-N	N	-7.724	-7.724	-7.724	-7.724	-7.724	-7.724	-7.724	-7.724	-7.724
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35-PP+CM+1.5-V+0.75-N	N	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756	-7.756
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.074	-0.055	-0.035	-0.016	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+1.35-CM+1.5-V+0.75-N	N	-7.725	-7.725	-7.725	-7.725	-7.725	-7.725	-7.725	-7.725	-7.725
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35-PP+1.35-CM+1.5-V+0.75-N	N	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757	-7.757
			Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
			Vz	-0.074	-0.055	-0.035	-0.016	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+CM+1.05-Q+1.5-V+0.75-N	N	-7.875	-7.875	-7.875	-7.875	-7.875	-7.875	-7.875	-7.875	-7.875
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.02	0.03	0.02	0.02	0.00	-0.02	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35-PP+CM+1.05-Q+1.5-V+0.75-N	N	-7.907	-7.907	-7.907	-7.907	-7.907	-7.907	-7.907	-7.907	-7.907
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.065	-0.046	-0.026	-0.007	0.012	0.032	0.051	0.071	0.090
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	-7.876	-7.876	-7.876	-7.876	-7.876	-7.876	-7.876	-7.876	-7.876
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.02	0.03	0.02	0.02	0.00	-0.02	-0.04
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908
			Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
			Vz	-0.065	-0.046	-0.026	-0.007	0.012	0.032	0.051	0.071	0.090

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02	-0.04
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.03	-0.04
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-4.995	-4.995	-4.995	-4.995	-4.995	-4.995	-4.995	-4.995	-4.995
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.03	-0.04
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963	-4.963
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02	-0.04
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.03	-0.04
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-4.996	-4.996	-4.996	-4.996	-4.996	-4.996	-4.996	-4.996	-4.996
			Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vz	-0.062	-0.042	-0.023	-0.003	0.016	0.036	0.055	0.074	0.094
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.05
			Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.03	-0.04

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N25/N24	Madera	PP+CM	N	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.153	-0.153	-0.153	-0.153	-0.153	-0.153	-0.153	-0.153	-0.153
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521	-0.521

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		1.35-PP+CM+1.5-Q	N	-0.564	-0.564	-0.564	-0.564	-0.564	-0.564	-0.564	-0.564	-0.564	-0.564
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.01	0.01	0.03	0.03	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35-CM+1.5-Q	N	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35-PP+1.35-CM+1.5-Q	N	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.01	0.01	0.03	0.03	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5-V	N	3.410	3.410	3.410	3.410	3.410	3.410	3.410	3.410	3.410	3.410
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		1.35-PP+CM+1.5-V	N	3.367	3.367	3.367	3.367	3.367	3.367	3.367	3.367	3.367	3.367
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35-CM+1.5-V	N	3.403	3.403	3.403	3.403	3.403	3.403	3.403	3.403	3.403	3.403
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.059	-0.045	-0.030	-0.016	-0.001	0.013	0.027	0.042	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		1.35-PP+1.35-CM+1.5-V	N	3.359	3.359	3.359	3.359	3.359	3.359	3.359	3.359	3.359	3.359
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.080	-0.060	-0.041	-0.021	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.05-Q+1.5-V	N	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.066	-0.051	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		1.35-PP+CM+1.05-Q+1.5-V	N	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.049	0.069	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.05	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.066	-0.051	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	3.097	3.097	3.097	3.097	3.097	3.097	3.097	3.097	3.097
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.049	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.9·V	N	1.613	1.613	1.613	1.613	1.613	1.613	1.613	1.613	1.613
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V	N	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.069	-0.054	-0.040	-0.026	-0.011	0.003	0.018	0.032	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	1.562	1.562	1.562	1.562	1.562	1.562	1.562	1.562	1.562
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.089	-0.070	-0.051	-0.031	-0.012	0.008	0.027	0.047	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·N	N	-0.588	-0.588	-0.588	-0.588	-0.588	-0.588	-0.588	-0.588	-0.588
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054	0.074
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639

Esfuerzos en barras, por combinación											
Barra	Combinación		Esfuerzo	Posiciones en la barra							
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	3.152 m
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.894	-0.894	-0.894	-0.894	-0.894	-0.894	-0.894	-0.894
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.00	0.02	0.04	0.04	0.04	0.04	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.901	-0.901	-0.901	-0.901	-0.901	-0.901	-0.901	-0.901
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	0.00	0.02	0.04	0.04	0.04	0.04	0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	1.546	1.546	1.546	1.546	1.546	1.546	1.546	1.546
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+0.9·V+1.5·N	N	1.502	1.502	1.502	1.502	1.502	1.502	1.502	1.502
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+0.9·V+1.5·N	N	1.538	1.538	1.538	1.538	1.538	1.538	1.538	1.538
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.061	-0.047	-0.032	-0.018	-0.003	0.011	0.025	0.040
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.015	0.035	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	1.283	1.283	1.283	1.283	1.283	1.283	1.283	1.283
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	1.240	1.240	1.240	1.240	1.240	1.240	1.240	1.240	1.240
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.04	0.02	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.089	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.04	0.02	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.75·N	N	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742	-0.742
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.749	-0.749	-0.749	-0.749	-0.749	-0.749	-0.749	-0.749	-0.749
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.793	-0.793	-0.793	-0.793	-0.793	-0.793	-0.793	-0.793	-0.793
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·V+0.75·N	N	3.189	3.189	3.189	3.189	3.189	3.189	3.189	3.189	3.189
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.060	-0.046	-0.031	-0.017	-0.002	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	0.00	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35·PP+CM+1.5·V+0.75·N	N	3.146	3.146	3.146	3.146	3.146	3.146	3.146	3.146	3.146
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.02	0.00	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+1.35·CM+1.5·V+0.75·N	N	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.060	-0.046	-0.031	-0.017	-0.002	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	0.00	-0.02
		Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138
			Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.02	0.00	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+CM+1.05·Q+1.5·V+0.75·N	N	2.927	2.927	2.927	2.927	2.927	2.927	2.927	2.927	2.927
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.067	-0.053	-0.038	-0.024	-0.009	0.005	0.019	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	2.883	2.883	2.883	2.883	2.883	2.883	2.883	2.883	2.883
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.088	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	2.919	2.919	2.919	2.919	2.919	2.919	2.919	2.919	2.919
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.067	-0.053	-0.038	-0.024	-0.009	0.005	0.019	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	2.876	2.876	2.876	2.876	2.876	2.876	2.876	2.876	2.876
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.088	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	1.392	1.392	1.392	1.392	1.392	1.392	1.392	1.392	1.392
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	1.348	1.348	1.348	1.348	1.348	1.348	1.348	1.348	1.348
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.384	1.384	1.384	1.384	1.384	1.384	1.384	1.384	1.384
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.070	-0.055	-0.041	-0.027	-0.012	0.002	0.017	0.031	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	1.341	1.341	1.341	1.341	1.341	1.341	1.341	1.341	1.341
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.091	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N21/N24	Madera	PP+CM	N	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.261	-0.261	-0.261	-0.261	-0.261	-0.261	-0.261	-0.261	-0.261
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.5·Q	N	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.5·Q	N	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.5·Q	N	-0.831	-0.831	-0.831	-0.831	-0.831	-0.831	-0.831	-0.831	-0.831
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·V	N	-2.964	-2.964	-2.964	-2.964	-2.964	-2.964	-2.964	-2.964	-2.964
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	
		1.35-PP+CM+1.5-V	N	-3.026	-3.026	-3.026	-3.026	-3.026	-3.026	-3.026	-3.026	-3.026	-3.026
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		PP+1.35-CM+1.5-V	N	-2.969	-2.969	-2.969	-2.969	-2.969	-2.969	-2.969	-2.969	-2.969	-2.969
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.057	-0.042	-0.028	-0.013	0.001	0.015	0.030	0.044	0.059	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.5-V	N	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.076	-0.057	-0.037	-0.018	0.001	0.021	0.040	0.060	0.079	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		PP+CM+1.05-Q+1.5-V	N	-3.363	-3.363	-3.363	-3.363	-3.363	-3.363	-3.363	-3.363	-3.363	-3.363
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.051	-0.037	-0.023	-0.008	0.006	0.021	0.035	0.049	0.064	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		1.35-PP+CM+1.05-Q+1.5-V	N	-3.425	-3.425	-3.425	-3.425	-3.425	-3.425	-3.425	-3.425	-3.425	-3.425
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.045	0.065	0.084	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01	-0.04	-0.04
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		PP+1.35-CM+1.05-Q+1.5-V	N	-3.368	-3.368	-3.368	-3.368	-3.368	-3.368	-3.368	-3.368	-3.368	-3.368
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.051	-0.037	-0.023	-0.008	0.006	0.021	0.035	0.049	0.064	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-3.430	-3.430	-3.430	-3.430	-3.430	-3.430	-3.430	-3.430	-3.430	-3.430
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.071	-0.052	-0.032	-0.013	0.007	0.026	0.045	0.065	0.084	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.03	0.01	-0.01	-0.04	-0.04
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		PP+CM+1.5-Q+0.9-V	N	-2.425	-2.425	-2.425	-2.425	-2.425	-2.425	-2.425	-2.425	-2.425	-2.425
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		1.35-PP+CM+1.5-Q+0.9-V	N	-2.487	-2.487	-2.487	-2.487	-2.487	-2.487	-2.487	-2.487	-2.487	-2.487
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04	-0.04

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+1.35·CM+1.5·Q+0.9·V	N	-2.431	-2.431	-2.431	-2.431	-2.431	-2.431	-2.431	-2.431	-2.431
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.052	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-2.493	-2.493	-2.493	-2.493	-2.493	-2.493	-2.493	-2.493	-2.493
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.069	-0.050	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+CM+1.5·N	N	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.866	-0.866	-0.866	-0.866	-0.866	-0.866	-0.866	-0.866	-0.866
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.810	-0.810	-0.810	-0.810	-0.810	-0.810	-0.810	-0.810	-0.810
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-1.203	-1.203	-1.203	-1.203	-1.203	-1.203	-1.203	-1.203	-1.203
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.265	-1.265	-1.265	-1.265	-1.265	-1.265	-1.265	-1.265	-1.265
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.208	-1.208	-1.208	-1.208	-1.208	-1.208	-1.208	-1.208	-1.208
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	-2.466	-2.466	-2.466	-2.466	-2.466	-2.466	-2.466	-2.466	-2.466
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+0.9·V+1.5·N	N	-2.528	-2.528	-2.528	-2.528	-2.528	-2.528	-2.528	-2.528	-2.528
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+0.9·V+1.5·N	N	-2.472	-2.472	-2.472	-2.472	-2.472	-2.472	-2.472	-2.472	-2.472
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-2.534	-2.534	-2.534	-2.534	-2.534	-2.534	-2.534	-2.534	-2.534
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.865	-2.865	-2.865	-2.865	-2.865	-2.865	-2.865	-2.865	-2.865
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.927	-2.927	-2.927	-2.927	-2.927	-2.927	-2.927	-2.927	-2.927
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.050	-0.035	-0.021	-0.007	0.008	0.022	0.037	0.051	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.933	-2.933	-2.933	-2.933	-2.933	-2.933	-2.933	-2.933	-2.933
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.070	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.066	0.086
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.75·N	N	-1.068	-1.068	-1.068	-1.068	-1.068	-1.068	-1.068	-1.068	-1.068
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.136	-1.136	-1.136	-1.136	-1.136	-1.136	-1.136	-1.136	-1.136
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·V+0.75·N	N	-3.269	-3.269	-3.269	-3.269	-3.269	-3.269	-3.269	-3.269	-3.269
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.056	-0.041	-0.027	-0.013	0.002	0.016	0.031	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-3.337	-3.337	-3.337	-3.337	-3.337	-3.337	-3.337	-3.337	-3.337
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.061	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.668	-3.668	-3.668	-3.668	-3.668	-3.668	-3.668	-3.668	-3.668
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.051	-0.036	-0.022	-0.007	0.007	0.021	0.036	0.050	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.730	-3.730	-3.730	-3.730	-3.730	-3.730	-3.730	-3.730	-3.730
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.070	-0.051	-0.032	-0.012	0.007	0.027	0.046	0.066	0.085
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-3.673	-3.673	-3.673	-3.673	-3.673	-3.673	-3.673	-3.673	-3.673
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.051	-0.036	-0.022	-0.007	0.007	0.021	0.036	0.050	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735
			Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
			Vz	-0.070	-0.051	-0.032	-0.012	0.007	0.027	0.046	0.066	0.085
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+CM+1.5-Q+0.9-V+0.75-N	N	-2.731	-2.731	-2.731	-2.731	-2.731	-2.731	-2.731	-2.731	-2.731
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
	Vz		-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067	
	Mt		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	My		0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02	
	Mz		0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02	
		1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	-2.793	-2.793	-2.793	-2.793	-2.793	-2.793	-2.793	-2.793	-2.793
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.048	-0.034	-0.020	-0.005	0.009	0.024	0.038	0.052	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		1.35-PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	-2.798	-2.798	-2.798	-2.798	-2.798	-2.798	-2.798	-2.798	-2.798
			Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
			Vz	-0.068	-0.049	-0.029	-0.010	0.010	0.029	0.048	0.068	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N21/N20	Madera	PP+CM	N	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		1.35-PP+1.35-CM	N	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35-PP+CM+1.5-Q	N	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35-CM+1.5-Q	N	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35-PP+1.35-CM+1.5-Q	N	-0.860	-0.860	-0.860	-0.860	-0.860	-0.860	-0.860	-0.860	-0.860	-0.860
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5-V	N	1.843	1.843	1.843	1.843	1.843	1.843	1.843	1.843	1.843	1.843
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+CM+1.5-V	N	1.787	1.787	1.787	1.787	1.787	1.787	1.787	1.787	1.787	1.787
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35-CM+1.5-V	N	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+1.35-CM+1.5-V	N	1.777	1.777	1.777	1.777	1.777	1.777	1.777	1.777	1.777	1.777
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.05-Q+1.5-V	N	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	0.053

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·V	N	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·V	N	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V	N	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V	N	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	0.415	0.415	0.415	0.415	0.415	0.415	0.415	0.415	0.415	0.415
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.01	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·N	N	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.736	-0.736	-0.736	-0.736	-0.736	-0.736	-0.736	-0.736	-0.736	-0.736
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		PP+1.35·CM+1.5·N	N	-0.690	-0.690	-0.690	-0.690	-0.690	-0.690	-0.690	-0.690	-0.690	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+1.5·N	N	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+1.5·N	N	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160	-1.160
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00	
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
		PP+CM+0.9·V+1.5·N	N	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
		1.35·PP+CM+0.9·V+1.5·N	N	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
		PP+1.35·CM+0.9·V+1.5·N	N	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.75·N	N	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.096	-1.096	-1.096	-1.096	-1.096	-1.096	-1.096	-1.096	-1.096	-1.096
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.050	-1.050	-1.050	-1.050	-1.050	-1.050	-1.050	-1.050	-1.050	-1.050
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052	0.052
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.106	-1.106	-1.106	-1.106	-1.106	-1.106	-1.106	-1.106	-1.106	-1.106
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		1.35-PP+CM+1.5-V+0.75-N	N	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	
		PP+1.35-CM+1.5-V+0.75-N	N	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.042	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	
		1.35-PP+1.35-CM+1.5-V+0.75-N	N	1.531	1.531	1.531	1.531	1.531	1.531	1.531	1.531	1.531	1.531
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.079	-0.059	-0.040	-0.020	0.000	0.018	0.038	0.057	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03	
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	
		PP+CM+1.05-Q+1.5-V+0.75-N	N	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.03	0.03	0.02	0.00	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.35-PP+CM+1.05-Q+1.5-V+0.75-N	N	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
		Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.03	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01		
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
		Vz	-0.062	-0.047	-0.033	-0.019	-0.003	0.010	0.025	0.039	0.053		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.02	0.00	0.02	0.03	0.04	0.03	0.03	0.02	0.00		
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
		Vz	-0.082	-0.063	-0.043	-0.024	-0.003	0.015	0.034	0.054	0.073		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.03	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01		
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+CM+1.5-Q+0.9-V+0.75-N	N	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	
		Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00		
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	
		Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072		
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00		
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	
		Vz	-0.063	-0.049	-0.034	-0.020	-0.005	0.009	0.023	0.038	0.052		

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113
			Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
			Vz	-0.084	-0.064	-0.045	-0.025	-0.005	0.014	0.033	0.052	0.072
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.03	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N17/N20	Madera	PP+CM	N	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.234	-0.234	-0.234	-0.234	-0.234	-0.234	-0.234	-0.234	-0.234
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q	N	-1.018	-1.018	-1.018	-1.018	-1.018	-1.018	-1.018	-1.018	-1.018
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q	N	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q	N	-1.027	-1.027	-1.027	-1.027	-1.027	-1.027	-1.027	-1.027	-1.027

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02	
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
		PP+CM+1.5-V	N	-1.471	-1.471	-1.471	-1.471	-1.471	-1.471	-1.471	-1.471	-1.471	-1.471
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+CM+1.5-V	N	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35-CM+1.5-V	N	-1.479	-1.479	-1.479	-1.479	-1.479	-1.479	-1.479	-1.479	-1.479	-1.479
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35-PP+1.35-CM+1.5-V	N	-1.549	-1.549	-1.549	-1.549	-1.549	-1.549	-1.549	-1.549	-1.549	-1.549
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	-0.04
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.05-Q+1.5-V	N	-1.976	-1.976	-1.976	-1.976	-1.976	-1.976	-1.976	-1.976	-1.976	-1.976
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		1.35-PP+CM+1.05-Q+1.5-V	N	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		PP+1.35-CM+1.05-Q+1.5-V	N	-1.985	-1.985	-1.985	-1.985	-1.985	-1.985	-1.985	-1.985	-1.985	-1.985
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-2.055	-2.055	-2.055	-2.055	-2.055	-2.055	-2.055	-2.055	-2.055	-2.055
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	-0.03
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		PP+CM+1.5-Q+0.9-V	N	-1.695	-1.695	-1.695	-1.695	-1.695	-1.695	-1.695	-1.695	-1.695	-1.695
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	-1.765	-1.765	-1.765	-1.765	-1.765	-1.765	-1.765	-1.765	-1.765
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	-1.704	-1.704	-1.704	-1.704	-1.704	-1.704	-1.704	-1.704	-1.704
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-1.774	-1.774	-1.774	-1.774	-1.774	-1.774	-1.774	-1.774	-1.774
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·N	N	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.937	-0.937	-0.937	-0.937	-0.937	-0.937	-0.937	-0.937	-0.937
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.876	-0.876	-0.876	-0.876	-0.876	-0.876	-0.876	-0.876	-0.876
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.946	-0.946	-0.946	-0.946	-0.946	-0.946	-0.946	-0.946	-0.946
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373	-1.373
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.443	-1.443	-1.443	-1.443	-1.443	-1.443	-1.443	-1.443	-1.443
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+0.9·V+1.5·N	N	-1.614	-1.614	-1.614	-1.614	-1.614	-1.614	-1.614	-1.614	-1.614
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+0.9·V+1.5·N	N	-1.684	-1.684	-1.684	-1.684	-1.684	-1.684	-1.684	-1.684	-1.684
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+0.9·V+1.5·N	N	-1.623	-1.623	-1.623	-1.623	-1.623	-1.623	-1.623	-1.623	-1.623
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.120	-2.120	-2.120	-2.120	-2.120	-2.120	-2.120	-2.120	-2.120
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.190	-2.190	-2.190	-2.190	-2.190	-2.190	-2.190	-2.190	-2.190
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.129	-2.129	-2.129	-2.129	-2.129	-2.129	-2.129	-2.129	-2.129
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.199	-2.199	-2.199	-2.199	-2.199	-2.199	-2.199	-2.199	-2.199
			Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.75·N	N	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.339	-1.339	-1.339	-1.339	-1.339	-1.339	-1.339	-1.339	-1.339
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.278	-1.278	-1.278	-1.278	-1.278	-1.278	-1.278	-1.278	-1.278
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.348	-1.348	-1.348	-1.348	-1.348	-1.348	-1.348	-1.348	-1.348
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V+0.75·N	N	-1.792	-1.792	-1.792	-1.792	-1.792	-1.792	-1.792	-1.792	-1.792
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-1.862	-1.862	-1.862	-1.862	-1.862	-1.862	-1.862	-1.862	-1.862
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.057	-0.043	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-1.870	-1.870	-1.870	-1.870	-1.870	-1.870	-1.870	-1.870	-1.870
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.077	-0.058	-0.038	-0.019	0.000	0.020	0.039	0.059	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-2.297	-2.297	-2.297	-2.297	-2.297	-2.297	-2.297	-2.297	-2.297
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-2.367	-2.367	-2.367	-2.367	-2.367	-2.367	-2.367	-2.367	-2.367

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-2.306	-2.306	-2.306	-2.306	-2.306	-2.306	-2.306	-2.306	-2.306
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.056	-0.041	-0.027	-0.012	0.002	0.016	0.031	0.045	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.022	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-2.016	-2.016	-2.016	-2.016	-2.016	-2.016	-2.016	-2.016	-2.016
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-2.086	-2.086	-2.086	-2.086	-2.086	-2.086	-2.086	-2.086	-2.086
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-2.025	-2.025	-2.025	-2.025	-2.025	-2.025	-2.025	-2.025	-2.025
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.055	-0.040	-0.026	-0.012	0.002	0.017	0.032	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-2.095	-2.095	-2.095	-2.095	-2.095	-2.095	-2.095	-2.095	-2.095
			Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
			Vz	-0.075	-0.055	-0.036	-0.017	0.002	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N17/N16	Madera	PP+CM	N	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q	N	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q	N	-0.890	-0.890	-0.890	-0.890	-0.890	-0.890	-0.890	-0.890	-0.890
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q	N	-0.950	-0.950	-0.950	-0.950	-0.950	-0.950	-0.950	-0.950	-0.950
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V	N	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V	N	0.217	0.217	0.217	0.217	0.217	0.217	0.217	0.217	0.217
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V	N	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·V	N	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·V	N	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+1.5·V	N	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·Q+0.9·V	N	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·N	N	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.244	-1.244	-1.244	-1.244	-1.244	-1.244	-1.244	-1.244	-1.244
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+0.9·V+1.5·N	N	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	-0.481	-0.481	-0.481	-0.481	-0.481	-0.481	-0.481	-0.481	-0.481
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	-0.430	-0.430	-0.430	-0.430	-0.430	-0.430	-0.430	-0.430	-0.430
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.898	-0.898	-0.898	-0.898	-0.898	-0.898	-0.898	-0.898	-0.898
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.958	-0.958	-0.958	-0.958	-0.958	-0.958	-0.958	-0.958	-0.958
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.908	-0.908	-0.908	-0.908	-0.908	-0.908	-0.908	-0.908	-0.908
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.968	-0.968	-0.968	-0.968	-0.968	-0.968	-0.968	-0.968	-0.968
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.02	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·Q+0.75·N	N	-1.134	-1.134	-1.134	-1.134	-1.134	-1.134	-1.134	-1.134	-1.134
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.204	-1.204	-1.204	-1.204	-1.204	-1.204	-1.204	-1.204	-1.204
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V+0.75·N	N	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V+0.75·N	N	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.463	-0.463	-0.463	-0.463	-0.463	-0.463	-0.463	-0.463	-0.463
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523
			Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.849	-0.849	-0.849	-0.849	-0.849	-0.849	-0.849	-0.849	-0.849
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.058	-0.043	-0.029	-0.014	0.000	0.014	0.029	0.043	0.058
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918	-0.918
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.078	-0.058	-0.039	-0.019	0.000	0.019	0.039	0.058	0.078
			Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
			My	-0.01	0.01	0.03	0.05	0.05	0.05	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N13/N16	Madera	PP+CM	N	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q	N	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		PP+1.35·CM+1.5·Q	N	-0.963	-0.963	-0.963	-0.963	-0.963	-0.963	-0.963	-0.963	-0.963
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q	N	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V	N	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V	N	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·V	N	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·V	N	-0.442	-0.442	-0.442	-0.442	-0.442	-0.442	-0.442	-0.442	-0.442
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+1.5·V	N	-0.512	-0.512	-0.512	-0.512	-0.512	-0.512	-0.512	-0.512	-0.512
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+1.5·V	N	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452	-0.452
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.9·V	N	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	-0.846	-0.846	-0.846	-0.846	-0.846	-0.846	-0.846	-0.846	-0.846
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787	-0.787
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·N	N	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872	-0.872
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.942	-0.942	-0.942	-0.942	-0.942	-0.942	-0.942	-0.942	-0.942
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953	-0.953
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448	
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389	-1.389
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	
		PP+CM+0.9·V+1.5·N	N	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+CM+0.9·V+1.5·N	N	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766	-0.766
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+1.35·CM+0.9·V+1.5·N	N	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.271	-1.271	-1.271	-1.271	-1.271	-1.271	-1.271	-1.271	-1.271	-1.271
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.212	-1.212	-1.212	-1.212	-1.212	-1.212	-1.212	-1.212	-1.212	-1.212
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.282	-1.282	-1.282	-1.282	-1.282	-1.282	-1.282	-1.282	-1.282	-1.282
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.05	0.05	0.05	0.04	0.02	-0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.75·N	N	-1.274	-1.274	-1.274	-1.274	-1.274	-1.274	-1.274	-1.274	-1.274	-1.274
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.344	-1.344	-1.344	-1.344	-1.344	-1.344	-1.344	-1.344	-1.344	-1.344
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.284	-1.284	-1.284	-1.284	-1.284	-1.284	-1.284	-1.284	-1.284	-1.284
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.354	-1.354	-1.354	-1.354	-1.354	-1.354	-1.354	-1.354	-1.354	-1.354
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V+0.75·N	N	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·V+0.75·N	N	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·V+0.75·N	N	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.058	-0.044	-0.029	-0.015	0.000	0.014	0.028	0.043	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338	-0.338
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.078	-0.059	-0.039	-0.020	0.000	0.019	0.038	0.058	0.077	0.077
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.01	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.833	-0.833	-0.833	-0.833	-0.833	-0.833	-0.833	-0.833	-0.833	-0.833
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.060	-0.045	-0.031	-0.016	-0.002	0.012	0.027	0.041	0.056	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.04	0.04	0.03	0.01	0.00	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.080	-0.060	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.097	-1.097	-1.097	-1.097	-1.097	-1.097	-1.097	-1.097	-1.097	-1.097
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.108	-1.108	-1.108	-1.108	-1.108	-1.108	-1.108	-1.108	-1.108	-1.108
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.060	-0.046	-0.032	-0.017	-0.002	0.012	0.026	0.040	0.055	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.02	0.00	0.00
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.178	-1.178	-1.178	-1.178	-1.178	-1.178	-1.178	-1.178	-1.178	-1.178
			Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vz	-0.081	-0.061	-0.042	-0.022	-0.002	0.017	0.036	0.055	0.075	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.03	0.04	0.05	0.05	0.04	0.02	-0.01	-0.01
			Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N13/N12	Madera	PP+CM	N	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187	-0.187
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q	N	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q	N	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792	-0.792
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q	N	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V	N	-1.259	-1.259	-1.259	-1.259	-1.259	-1.259	-1.259	-1.259	-1.259
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·V	N	-1.315	-1.315	-1.315	-1.315	-1.315	-1.315	-1.315	-1.315	-1.315
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·V	N	-1.266	-1.266	-1.266	-1.266	-1.266	-1.266	-1.266	-1.266	-1.266

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03	
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
		1.35-PP+1.35-CM+1.5-V	N	-1.322	-1.322	-1.322	-1.322	-1.322	-1.322	-1.322	-1.322	-1.322	-1.322
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.03	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.04	
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.05-Q+1.5-V	N	-1.682	-1.682	-1.682	-1.682	-1.682	-1.682	-1.682	-1.682	-1.682	-1.682
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+CM+1.05-Q+1.5-V	N	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35-CM+1.05-Q+1.5-V	N	-1.689	-1.689	-1.689	-1.689	-1.689	-1.689	-1.689	-1.689	-1.689	-1.689
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	0.00	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-1.745	-1.745	-1.745	-1.745	-1.745	-1.745	-1.745	-1.745	-1.745	-1.745
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5-Q+0.9-V	N	-1.432	-1.432	-1.432	-1.432	-1.432	-1.432	-1.432	-1.432	-1.432	-1.432
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+CM+1.5-Q+0.9-V	N	-1.489	-1.489	-1.489	-1.489	-1.489	-1.489	-1.489	-1.489	-1.489	-1.489
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35-CM+1.5-Q+0.9-V	N	-1.439	-1.439	-1.439	-1.439	-1.439	-1.439	-1.439	-1.439	-1.439	-1.439
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-1.495	-1.495	-1.495	-1.495	-1.495	-1.495	-1.495	-1.495	-1.495	-1.495
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·N	N	-0.671	-0.671	-0.671	-0.671	-0.671	-0.671	-0.671	-0.671	-0.671
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678	-0.678
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.151	-1.151	-1.151	-1.151	-1.151	-1.151	-1.151	-1.151	-1.151
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.158	-1.158	-1.158	-1.158	-1.158	-1.158	-1.158	-1.158	-1.158
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		PP+CM+0.9·V+1.5·N	N	-1.319	-1.319	-1.319	-1.319	-1.319	-1.319	-1.319	-1.319	-1.319
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	-1.375	-1.375	-1.375	-1.375	-1.375	-1.375	-1.375	-1.375	-1.375

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	-1.325	-1.325	-1.325	-1.325	-1.325	-1.325	-1.325	-1.325	-1.325
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.04	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.742	-1.742	-1.742	-1.742	-1.742	-1.742	-1.742	-1.742	-1.742
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-1.798	-1.798	-1.798	-1.798	-1.798	-1.798	-1.798	-1.798	-1.798
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.749	-1.749	-1.749	-1.749	-1.749	-1.749	-1.749	-1.749	-1.749
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-1.805	-1.805	-1.805	-1.805	-1.805	-1.805	-1.805	-1.805	-1.805
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·Q+0.75·N	N	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.087	-1.087	-1.087	-1.087	-1.087	-1.087	-1.087	-1.087	-1.087
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094	-1.094
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	-1.504	-1.504	-1.504	-1.504	-1.504	-1.504	-1.504	-1.504	-1.504
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-1.561	-1.561	-1.561	-1.561	-1.561	-1.561	-1.561	-1.561	-1.561
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.057	-0.042	-0.028	-0.014	0.000	0.015	0.029	0.044	0.058
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567	-1.567
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.077	-0.057	-0.038	-0.018	0.000	0.020	0.040	0.059	0.079
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-1.928	-1.928	-1.928	-1.928	-1.928	-1.928	-1.928	-1.928	-1.928
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-1.984	-1.984	-1.984	-1.984	-1.984	-1.984	-1.984	-1.984	-1.984
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-1.935	-1.935	-1.935	-1.935	-1.935	-1.935	-1.935	-1.935	-1.935
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.053	-0.039	-0.025	-0.010	0.003	0.019	0.033	0.047	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.04	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.073	-0.054	-0.034	-0.015	0.003	0.024	0.043	0.063	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	
			Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-1.734	-1.734	-1.734	-1.734	-1.734	-1.734	-1.734	-1.734	-1.734	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			My	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02	
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	
			PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.685	-1.685	-1.685	-1.685	-1.685	-1.685	-1.685	-1.685	-1.685
				Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
				Vz	-0.052	-0.038	-0.023	-0.009	0.005	0.020	0.034	0.049	0.063
				Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	My	0.00		0.02	0.03	0.04	0.04	0.03	0.02	0.01	-0.01		
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01		
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	
			Vz	-0.072	-0.052	-0.033	-0.014	0.005	0.025	0.045	0.064	0.084	
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	My		0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.00	-0.02		
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01		

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
N9/N12	Madera	PP+CM	N	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	-0.775	-0.775	-0.775	-0.775	-0.775	-0.775	-0.775	-0.775	-0.775	-0.775
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	0.00

Esfuerzos en barras, por combinación													
Barra	Combinación		Esfuerzo	Posiciones en la barra									
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m	
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	
		1.35-PP+CM+1.5-Q	N	-0.837	-0.837	-0.837	-0.837	-0.837	-0.837	-0.837	-0.837	-0.837	-0.837
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+1.35-CM+1.5-Q	N	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		1.35-PP+1.35-CM+1.5-Q	N	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		PP+CM+1.5-V	N	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+CM+1.5-V	N	1.555	1.555	1.555	1.555	1.555	1.555	1.555	1.555	1.555	1.555
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35-CM+1.5-V	N	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042	0.057	0.057
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+1.35-CM+1.5-V	N	1.545	1.545	1.545	1.545	1.545	1.545	1.545	1.545	1.545	1.545
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.079	-0.060	-0.040	-0.021	-0.001	0.018	0.037	0.057	0.076	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05-Q+1.5-V	N	1.218	1.218	1.218	1.218	1.218	1.218	1.218	1.218	1.218	1.218
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.064	-0.049	-0.035	-0.021	-0.006	0.008	0.023	0.037	0.051	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.05-Q+1.5-V	N	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.156
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.084	-0.065	-0.045	-0.026	-0.007	0.013	0.032	0.052	0.071	0.071
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.05-Q+1.5-V	N	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.064	-0.049	-0.035	-0.021	-0.006	0.008	0.023	0.037	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.084	-0.065	-0.045	-0.026	-0.007	0.013	0.032	0.052	0.071
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.03	0.03	0.02	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V	N	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V	N	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V	N	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.066	-0.052	-0.037	-0.023	-0.008	0.006	0.020	0.035	0.049
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.01	0.03	0.03	0.03	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.087	-0.067	-0.048	-0.028	-0.009	0.011	0.030	0.050	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·N	N	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.878	-0.878	-0.878	-0.878	-0.878	-0.878	-0.878	-0.878	-0.878
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.888	-0.888	-0.888	-0.888	-0.888	-0.888	-0.888	-0.888	-0.888
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215	-1.215
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287
			Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+0.9·V+1.5·N	N	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+0.9·V+1.5·N	N	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.060	-0.046	-0.031	-0.017	-0.003	0.012	0.026	0.041	0.055
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.081	-0.061	-0.042	-0.022	-0.003	0.016	0.036	0.055	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.02	0.01	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.065	-0.051	-0.037	-0.022	-0.008	0.007	0.021	0.035	0.050
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.086	-0.066	-0.047	-0.028	-0.008	0.011	0.031	0.050	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.05	0.05	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.75·N	N	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153
			Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		PP+CM+1.5·V+0.75·N	N	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·V+0.75·N	N	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.080	-0.061	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·V+0.75·N	N	1.301	1.301	1.301	1.301	1.301	1.301	1.301	1.301	1.301
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.02	0.00	-0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	1.239	1.239	1.239	1.239	1.239	1.239	1.239	1.239	1.239
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.080	-0.061	-0.041	-0.022	-0.002	0.017	0.037	0.056	0.076
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.065	-0.050	-0.036	-0.021	-0.007	0.007	0.022	0.036	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.085	-0.066	-0.046	-0.027	-0.007	0.012	0.031	0.051	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.065	-0.050	-0.036	-0.021	-0.007	0.007	0.022	0.036	0.051
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.03	0.02	0.00
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.841	0.841	0.841	0.841	0.841	0.841	0.841	0.841	0.841
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.085	-0.066	-0.046	-0.027	-0.007	0.012	0.031	0.051	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.067	-0.052	-0.038	-0.024	-0.009	0.005	0.020	0.034	0.048
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.087	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N9/N8	Madera	PP+CM	N	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM	N	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM	N	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM	N	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177	-0.177
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-Q	N	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.03	0.03	0.01	-0.01	-0.05
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-Q	N	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.03	0.03	0.01	-0.01	-0.05
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736	-2.736
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+CM+1.5-V	N	-2.779	-2.779	-2.779	-2.779	-2.779	-2.779	-2.779	-2.779	-2.779
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·V	N	-2.738	-2.738	-2.738	-2.738	-2.738	-2.738	-2.738	-2.738	-2.738
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045	0.059
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V	N	-2.782	-2.782	-2.782	-2.782	-2.782	-2.782	-2.782	-2.782	-2.782
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.076	-0.056	-0.037	-0.017	0.002	0.021	0.041	0.060	0.080
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V	N	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.051	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.02	0.02	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		1.35·PP+CM+1.05·Q+1.5·V	N	-3.042	-3.042	-3.042	-3.042	-3.042	-3.042	-3.042	-3.042	-3.042
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.069	-0.049	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+1.5·V	N	-3.001	-3.001	-3.001	-3.001	-3.001	-3.001	-3.001	-3.001	-3.001
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.049	-0.035	-0.020	-0.006	0.008	0.023	0.037	0.051	0.066
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.02	0.02	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	-3.044	-3.044	-3.044	-3.044	-3.044	-3.044	-3.044	-3.044	-3.044
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.069	-0.049	-0.030	-0.011	0.009	0.028	0.048	0.067	0.087
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+CM+1.5·Q+0.9·V	N	-2.069	-2.069	-2.069	-2.069	-2.069	-2.069	-2.069	-2.069	-2.069
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·Q+0.9·V	N	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.03	0.03	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·Q+0.9·V	N	-2.071	-2.071	-2.071	-2.071	-2.071	-2.071	-2.071	-2.071	-2.071
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054	0.069
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	-2.115	-2.115	-2.115	-2.115	-2.115	-2.115	-2.115	-2.115	-2.115
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.066	-0.047	-0.027	-0.008	0.012	0.031	0.051	0.070	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.03	0.03	0.01	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5-N	N	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-N	N	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617	-0.617
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-N	N	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-N	N	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05-Q+1.5-N	N	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.05-Q+1.5-N	N	-0.879	-0.879	-0.879	-0.879	-0.879	-0.879	-0.879	-0.879	-0.879
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.05-Q+1.5-N	N	-0.838	-0.838	-0.838	-0.838	-0.838	-0.838	-0.838	-0.838	-0.838
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.05-Q+1.5-N	N	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9-V+1.5-N	N	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+0.9·V+1.5·N	N	-2.180	-2.180	-2.180	-2.180	-2.180	-2.180	-2.180	-2.180	-2.180
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+0.9·V+1.5·N	N	-2.139	-2.139	-2.139	-2.139	-2.139	-2.139	-2.139	-2.139	-2.139
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.054	-0.040	-0.025	-0.011	0.003	0.018	0.032	0.047	0.061
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-2.182	-2.182	-2.182	-2.182	-2.182	-2.182	-2.182	-2.182	-2.182
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.074	-0.054	-0.035	-0.015	0.004	0.023	0.043	0.062	0.082
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.398	-2.398	-2.398	-2.398	-2.398	-2.398	-2.398	-2.398	-2.398
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-2.442	-2.442	-2.442	-2.442	-2.442	-2.442	-2.442	-2.442	-2.442
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.401	-2.401	-2.401	-2.401	-2.401	-2.401	-2.401	-2.401	-2.401
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.047	-0.033	-0.018	-0.004	0.010	0.025	0.039	0.054	0.068
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-2.444	-2.444	-2.444	-2.444	-2.444	-2.444	-2.444	-2.444	-2.444
			Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
			Vz	-0.067	-0.047	-0.028	-0.009	0.011	0.030	0.050	0.069	0.089
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·Q+0.75·N	N	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.771	-0.771	-0.771	-0.771	-0.771	-0.771	-0.771	-0.771	-0.771
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773	-0.773
			Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.01	-0.01	-0.04
			Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	-2.957	-2.957	-2.957	-2.957	-2.957	-2.957	-2.957	-2.957	-2.957
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.055	-0.041	-0.026	-0.012	0.002	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·V+0.75·N	N	-3.000	-3.000	-3.000	-3.000	-3.000	-3.000	-3.000	-3.000	-3.000
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·V+0.75·N	N	-2.959	-2.959	-2.959	-2.959	-2.959	-2.959	-2.959	-2.959	-2.959
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.055	-0.041	-0.026	-0.012	0.002	0.017	0.031	0.046	0.060
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.02	0.02	0.01	0.00	-0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.075	-0.055	-0.036	-0.016	0.003	0.022	0.042	0.061	0.081
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.219	-3.219	-3.219	-3.219	-3.219	-3.219	-3.219	-3.219	-3.219
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.048	-0.034	-0.019	-0.005	0.009	0.024	0.038	0.053	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	0.00	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068	0.088
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-3.222	-3.222	-3.222	-3.222	-3.222	-3.222	-3.222	-3.222	-3.222
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.048	-0.034	-0.019	-0.005	0.009	0.024	0.038	0.053	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.03	0.03	0.02	0.01	0.00	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265
			Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
			Vz	-0.068	-0.048	-0.029	-0.010	0.010	0.029	0.049	0.068	0.088

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+CM+1.5·Q+0.9·V+0.75·N	N	-2.290	-2.290	-2.290	-2.290	-2.290	-2.290	-2.290	-2.290	-2.290
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	-2.333	-2.333	-2.333	-2.333	-2.333	-2.333	-2.333	-2.333	-2.333
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-2.292	-2.292	-2.292	-2.292	-2.292	-2.292	-2.292	-2.292	-2.292
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.045	-0.031	-0.017	-0.002	0.012	0.027	0.041	0.055	0.070
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.02	0.03	0.04	0.03	0.03	0.01	-0.01	-0.03
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	-2.336	-2.336	-2.336	-2.336	-2.336	-2.336	-2.336	-2.336	-2.336
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-0.065	-0.046	-0.026	-0.007	0.013	0.032	0.052	0.071	0.091
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.02	0.03	0.04	0.04	0.03	0.02	-0.01	-0.04
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N5/N8	Madera	PP+CM	N	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.139	-0.139	-0.139	-0.139	-0.139	-0.139	-0.139	-0.139	-0.139
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	-0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+CM+1.5-Q	N	-0.354	-0.354	-0.354	-0.354	-0.354	-0.354	-0.354	-0.354	-0.354
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.02	0.00	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35-CM+1.5-Q	N	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328	-0.328
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35-PP+1.35-CM+1.5-Q	N	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.06	-0.02	0.00	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-V	N	5.984	5.984	5.984	5.984	5.984	5.984	5.984	5.984	5.984
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35-PP+CM+1.5-V	N	5.952	5.952	5.952	5.952	5.952	5.952	5.952	5.952	5.952
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+1.35-CM+1.5-V	N	5.978	5.978	5.978	5.978	5.978	5.978	5.978	5.978	5.978
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.059	-0.045	-0.031	-0.016	-0.002	0.013	0.027	0.041	0.056
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.02
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35-PP+1.35-CM+1.5-V	N	5.946	5.946	5.946	5.946	5.946	5.946	5.946	5.946	5.946
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.080	-0.061	-0.041	-0.022	-0.003	0.017	0.036	0.056	0.075
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.02	0.01	-0.01	-0.03
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+CM+1.05-Q+1.5-V	N	5.833	5.833	5.833	5.833	5.833	5.833	5.833	5.833	5.833
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.00	0.02	0.02	0.02	0.02	0.01	-0.01
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35-PP+CM+1.05-Q+1.5-V	N	5.801	5.801	5.801	5.801	5.801	5.801	5.801	5.801	5.801
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.089	-0.069	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.05	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+1.35·CM+1.05·Q+1.5·V	N	5.827	5.827	5.827	5.827	5.827	5.827	5.827	5.827	5.827
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.068	-0.054	-0.039	-0.025	-0.010	0.004	0.018	0.033	0.047
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.00	0.02	0.02	0.02	0.02	0.01	-0.01
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35·PP+1.35·CM+1.05·Q+1.5·V	N	5.796	5.796	5.796	5.796	5.796	5.796	5.796	5.796	5.796
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.089	-0.069	-0.050	-0.031	-0.011	0.008	0.028	0.047	0.067
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+CM+1.5·Q+0.9·V	N	3.332	3.332	3.332	3.332	3.332	3.332	3.332	3.332	3.332
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		1.35·PP+CM+1.5·Q+0.9·V	N	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.00	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		PP+1.35·CM+1.5·Q+0.9·V	N	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.072	-0.057	-0.043	-0.029	-0.014	0.000	0.015	0.029	0.043
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.00	0.02	0.02	0.03	0.02	0.01	0.00
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	3.295	3.295	3.295	3.295	3.295	3.295	3.295	3.295	3.295
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.093	-0.073	-0.054	-0.034	-0.015	0.005	0.024	0.043	0.063
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.00	0.02	0.03	0.03	0.03	0.01	-0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		PP+CM+1.5·N	N	-0.477	-0.477	-0.477	-0.477	-0.477	-0.477	-0.477	-0.477	-0.477
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·N	N	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509	-0.509
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·N	N	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.03	0.02	0.01	-0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·N	N	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.02	0.03	0.03	0.03	0.02	0.01	-0.02
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.05·Q+1.5·N	N	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.659	-0.659	-0.659	-0.659	-0.659	-0.659	-0.659	-0.659	-0.659
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665
			Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+0.9·V+1.5·N	N	3.178	3.178	3.178	3.178	3.178	3.178	3.178	3.178	3.178
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.01	0.02
		1.35·PP+CM+0.9·V+1.5·N	N	3.146	3.146	3.146	3.146	3.146	3.146	3.146	3.146	3.146
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.01	0.02
		PP+1.35·CM+0.9·V+1.5·N	N	3.172	3.172	3.172	3.172	3.172	3.172	3.172	3.172	3.172
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-0.062	-0.048	-0.033	-0.019	-0.004	0.010	0.024	0.039	0.053
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.02	0.03	0.03	0.03	0.02	0.01	-0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.01	0.02
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140
			Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
			Vz	-0.083	-0.063	-0.044	-0.024	-0.005	0.014	0.034	0.053	0.073
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	0.00	0.02	0.03	0.04	0.03	0.02	0.01	-0.02
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.01	0.01	0.02
		PP+CM+1.05·Q+0.9·V+1.5·N	N	3.027	3.027	3.027	3.027	3.027	3.027	3.027	3.027	3.027
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	2.995	2.995	2.995	2.995	2.995	2.995	2.995	2.995	2.995
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	3.021	3.021	3.021	3.021	3.021	3.021	3.021	3.021	3.021
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.071	-0.056	-0.042	-0.027	-0.013	0.001	0.016	0.030	0.045
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.04	0.03	0.02	0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	2.989	2.989	2.989	2.989	2.989	2.989	2.989	2.989	2.989
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.091	-0.072	-0.053	-0.033	-0.014	0.006	0.025	0.045	0.064
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		PP+CM+1.5·Q+0.75·N	N	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507	-0.507
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.01	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.02	0.01	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545
			Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.00
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·V+0.75·N	N	5.799	5.799	5.799	5.799	5.799	5.799	5.799	5.799	5.799
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.061	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35·PP+CM+1.5·V+0.75·N	N	5.767	5.767	5.767	5.767	5.767	5.767	5.767	5.767	5.767
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.016	0.035	0.055	0.074
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+1.35·CM+1.5·V+0.75·N	N	5.793	5.793	5.793	5.793	5.793	5.793	5.793	5.793	5.793

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.061	-0.046	-0.032	-0.018	-0.003	0.011	0.026	0.040	0.054
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.00	0.01	0.02	0.03	0.02	0.01	0.00	-0.02
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	5.761	5.761	5.761	5.761	5.761	5.761	5.761	5.761	5.761
			Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
			Vz	-0.082	-0.062	-0.043	-0.023	-0.004	0.016	0.035	0.055	0.074
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.03	0.03	0.03	0.02	0.00	-0.02
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+CM+1.05·Q+1.5·V+0.75·N	N	5.648	5.648	5.648	5.648	5.648	5.648	5.648	5.648	5.648
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.069	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.02	0.02	0.00
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	5.616	5.616	5.616	5.616	5.616	5.616	5.616	5.616	5.616
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.090	-0.071	-0.051	-0.032	-0.012	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	5.642	5.642	5.642	5.642	5.642	5.642	5.642	5.642	5.642
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.069	-0.055	-0.041	-0.026	-0.012	0.003	0.017	0.031	0.046
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.03	-0.01	0.01	0.02	0.03	0.03	0.02	0.02	0.00
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	5.611	5.611	5.611	5.611	5.611	5.611	5.611	5.611	5.611
			Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
			Vz	-0.090	-0.071	-0.051	-0.032	-0.012	0.007	0.026	0.046	0.065
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.03	0.04	0.04	0.03	0.01	-0.01
			Mz	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.03
		PP+CM+1.5·Q+0.9·V+0.75·N	N	3.147	3.147	3.147	3.147	3.147	3.147	3.147	3.147	3.147
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	3.115	3.115	3.115	3.115	3.115	3.115	3.115	3.115	3.115
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.05	-0.02	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	3.142	3.142	3.142	3.142	3.142	3.142	3.142	3.142	3.142
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.073	-0.059	-0.044	-0.030	-0.015	-0.001	0.013	0.028	0.042
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.04	-0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	3.110	3.110	3.110	3.110	3.110	3.110	3.110	3.110	3.110
			Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
			Vz	-0.094	-0.074	-0.055	-0.036	-0.016	0.003	0.023	0.042	0.062
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
			My	-0.05	-0.02	0.01	0.03	0.04	0.04	0.03	0.02	0.00
			Mz	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N27/N28	Madera	PP+CM	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.156	-0.112	-0.091	-0.047	-0.004	0.040	0.083	0.105	0.149
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.08	0.10	0.12	0.13	0.12	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.209	-0.151	-0.121	-0.062	-0.004	0.055	0.114	0.143	0.202
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.10	0.13	0.17	0.18	0.17	0.14	0.11	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.157	-0.114	-0.092	-0.049	-0.005	0.039	0.082	0.104	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.07	0.09	0.12	0.13	0.12	0.10	0.08	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+1.35·CM	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.211	-0.152	-0.122	-0.064	-0.005	0.054	0.112	0.142	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.10	0.13	0.16	0.18	0.17	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5·Q	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.156	-0.112	-0.091	-0.047	-0.004	0.040	0.083	0.105	0.149
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.06	0.08	0.11	0.12	0.11	0.09	0.07	0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+CM+1.5·Q	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.209	-0.151	-0.121	-0.062	-0.004	0.055	0.114	0.143	0.202
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.09	0.12	0.15	0.17	0.15	0.12	0.10	0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35·CM+1.5·Q	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.157	-0.114	-0.092	-0.049	-0.005	0.039	0.082	0.104	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.06	0.08	0.11	0.12	0.11	0.09	0.07	0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.211	-0.152	-0.122	-0.064	-0.005	0.054	0.112	0.142	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.09	0.12	0.15	0.17	0.15	0.12	0.10	0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5·V	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.156	-0.112	-0.091	-0.047	-0.004	0.040	0.083	0.105	0.149
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.13	-0.08	-0.06	-0.03	-0.02	-0.03	-0.05	-0.07	-0.12
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		1.35-PP+CM+1.5-V	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
			Vz	-0.209	-0.151	-0.121	-0.062	-0.004	0.055	0.114	0.143	0.202
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.12	-0.05	-0.02	0.01	0.03	0.01	-0.02	-0.04	-0.11
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		PP+1.35-CM+1.5-V	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
			Vz	-0.157	-0.114	-0.092	-0.049	-0.005	0.039	0.082	0.104	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.13	-0.08	-0.06	-0.03	-0.02	-0.03	-0.05	-0.07	-0.12
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		1.35-PP+1.35-CM+1.5-V	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
			Vz	-0.211	-0.152	-0.122	-0.064	-0.005	0.054	0.112	0.142	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.12	-0.05	-0.02	0.01	0.03	0.01	-0.02	-0.04	-0.11
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		PP+CM+1.05-Q+1.5-V	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168
			Vz	-0.156	-0.112	-0.091	-0.047	-0.004	0.040	0.083	0.105	0.149
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.14	-0.09	-0.07	-0.04	-0.03	-0.04	-0.06	-0.08	-0.13
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		1.35-PP+CM+1.05-Q+1.5-V	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
			Vz	-0.209	-0.151	-0.121	-0.062	-0.004	0.055	0.114	0.143	0.202
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.13	-0.06	-0.03	0.00	0.02	0.00	-0.03	-0.05	-0.12
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		PP+1.35-CM+1.05-Q+1.5-V	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168
			Vz	-0.157	-0.114	-0.092	-0.049	-0.005	0.039	0.082	0.104	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.14	-0.09	-0.07	-0.04	-0.03	-0.04	-0.06	-0.08	-0.13
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
			Vz	-0.211	-0.152	-0.122	-0.064	-0.005	0.054	0.112	0.142	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.13	-0.06	-0.03	0.00	0.02	0.00	-0.03	-0.05	-0.12
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		PP+CM+1.5-Q+0.9-V	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
			Vz	-0.156	-0.112	-0.091	-0.047	-0.004	0.040	0.083	0.105	0.149
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	-0.03	-0.01	0.02	0.03	0.02	0.00	-0.02	-0.07
			Mz	0.13	0.09	0.08	0.04	0.00	-0.04	-0.08	-0.09	-0.13
		1.35-PP+CM+1.5-Q+0.9-V	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
			Vz	-0.209	-0.151	-0.121	-0.062	-0.004	0.055	0.114	0.143	0.202
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.00	0.02	0.06	0.07	0.06	0.03	0.01	-0.06

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		PP+1.35·CM+1.5·Q+0.9·V	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
			Vz	-0.157	-0.114	-0.092	-0.049	-0.005	0.039	0.082	0.104	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.08	-0.03	-0.01	0.02	0.03	0.02	0.00	-0.02	-0.07
			Mz	0.13	0.09	0.08	0.04	0.00	-0.04	-0.08	-0.09	-0.13
		1.35·PP+1.35·CM+1.5·Q+0.9·V	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
			Vz	-0.211	-0.152	-0.122	-0.064	-0.005	0.054	0.112	0.142	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.07	0.00	0.02	0.06	0.07	0.06	0.03	0.01	-0.06
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		PP+CM+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-1.472	-1.053	-0.843	-0.423	-0.004	0.416	0.835	1.045	1.465
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.91	0.99	0.91	0.67	0.49	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.526	-1.091	-0.873	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.70	0.95	1.04	0.95	0.70	0.52	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
			Vz	-1.474	-1.054	-0.844	-0.425	-0.005	0.415	0.834	1.044	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.91	0.99	0.91	0.67	0.49	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.527	-1.092	-0.875	-0.440	-0.005	0.430	0.865	1.082	1.517
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.70	0.95	1.04	0.95	0.70	0.52	0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
			Vz	-1.472	-1.053	-0.843	-0.423	-0.004	0.416	0.835	1.045	1.465
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.90	0.98	0.90	0.66	0.48	-0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.05·Q+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
			Vz	-1.526	-1.091	-0.873	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.50	0.69	0.94	1.03	0.94	0.69	0.51	0.00
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
			Vz	-1.474	-1.054	-0.844	-0.425	-0.005	0.415	0.834	1.044	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.90	0.98	0.90	0.66	0.48	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-1.527	-1.092	-0.875	-0.440	-0.005	0.430	0.865	1.082	1.517
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.50	0.69	0.94	1.03	0.94	0.70	0.51	0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+CM+0.9·V+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
			Vz	-1.472	-1.053	-0.843	-0.423	-0.004	0.416	0.835	1.045	1.465
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.39	0.57	0.82	0.90	0.82	0.58	0.40	-0.09
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		1.35·PP+CM+0.9·V+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	-1.526	-1.091	-0.873	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	0.42	0.61	0.86	0.94	0.86	0.61	0.42	-0.08
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		PP+1.35·CM+0.9·V+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
			Vz	-1.474	-1.054	-0.844	-0.425	-0.005	0.415	0.834	1.044	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.39	0.57	0.81	0.90	0.82	0.58	0.40	-0.09
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	-1.527	-1.092	-0.875	-0.440	-0.005	0.430	0.865	1.082	1.517
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	0.42	0.60	0.86	0.94	0.86	0.61	0.42	-0.08
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
			Vz	-1.472	-1.053	-0.843	-0.423	-0.004	0.416	0.835	1.045	1.465
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.11	0.38	0.56	0.81	0.89	0.81	0.57	0.39	-0.10
			Mz	0.12	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.12
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
			Vz	-1.526	-1.091	-0.873	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.41	0.60	0.85	0.94	0.85	0.60	0.41	-0.09
			Mz	0.12	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.12
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
			Vz	-1.474	-1.054	-0.844	-0.425	-0.005	0.415	0.834	1.044	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.11	0.38	0.56	0.81	0.89	0.81	0.57	0.39	-0.10
			Mz	0.12	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.12
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
			Vz	-1.527	-1.092	-0.875	-0.440	-0.005	0.430	0.865	1.082	1.517
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.41	0.60	0.85	0.94	0.85	0.60	0.42	-0.09
			Mz	0.12	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.12
		PP+CM+1.5·Q+0.75·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.814	-0.583	-0.467	-0.235	-0.004	0.228	0.459	0.575	0.807
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.26	0.37	0.50	0.55	0.50	0.37	0.27	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.867	-0.621	-0.497	-0.250	-0.004	0.243	0.490	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.29	0.40	0.54	0.59	0.55	0.41	0.30	0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.815	-0.584	-0.468	-0.237	-0.005	0.227	0.458	0.574	0.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.26	0.37	0.50	0.55	0.50	0.37	0.27	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.869	-0.622	-0.499	-0.252	-0.005	0.242	0.489	0.612	0.859
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.29	0.40	0.54	0.59	0.55	0.41	0.30	0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
			Vz	-0.814	-0.583	-0.467	-0.235	-0.004	0.228	0.459	0.575	0.807
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.14	0.12	0.23	0.36	0.41	0.36	0.23	0.13	-0.13
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		1.35·PP+CM+1.5·V+0.75·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166
			Vz	-0.867	-0.621	-0.497	-0.250	-0.004	0.243	0.490	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.13	0.15	0.26	0.40	0.45	0.41	0.27	0.16	-0.12
			Mz	0.22	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.22
		PP+1.35·CM+1.5·V+0.75·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
			Vz	-0.815	-0.584	-0.468	-0.237	-0.005	0.227	0.458	0.574	0.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.15	0.12	0.22	0.36	0.41	0.36	0.23	0.13	-0.13
			Mz	0.23	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.23
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166
			Vz	-0.869	-0.622	-0.499	-0.252	-0.005	0.242	0.489	0.612	0.859
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.14	0.15	0.26	0.40	0.45	0.41	0.27	0.16	-0.12
			Mz	0.22	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.22
		PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
			Vz	-0.814	-0.583	-0.467	-0.235	-0.004	0.228	0.459	0.575	0.807
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.15	0.12	0.22	0.35	0.40	0.35	0.22	0.12	-0.14
			Mz	0.22	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.22
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
			Vz	-0.867	-0.621	-0.497	-0.250	-0.004	0.243	0.490	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.14	0.14	0.25	0.40	0.45	0.40	0.26	0.15	-0.13
			Mz	0.22	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.22
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Vz	-0.815	-0.584	-0.468	-0.237	-0.005	0.227	0.458	0.574	0.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.16	0.11	0.22	0.35	0.40	0.35	0.22	0.12	-0.14
			Mz	0.22	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.22
		1.35-PP+1.35-CM+1.05-Q+1.5-V+0.75-N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
			Vz	-0.869	-0.622	-0.499	-0.252	-0.005	0.242	0.489	0.612	0.859
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.15	0.14	0.25	0.39	0.45	0.40	0.26	0.15	-0.13
			Mz	0.22	0.16	0.13	0.07	0.00	-0.07	-0.13	-0.16	-0.22
		PP+CM+1.5-Q+0.9-V+0.75-N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	-0.814	-0.583	-0.467	-0.235	-0.004	0.228	0.459	0.575	0.807
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.17	0.27	0.41	0.46	0.41	0.28	0.18	-0.09
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		1.35-PP+CM+1.5-Q+0.9-V+0.75-N	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	-0.867	-0.621	-0.497	-0.250	-0.004	0.243	0.490	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.09	0.20	0.31	0.45	0.50	0.45	0.31	0.21	-0.08
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
		PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
			Vz	-0.815	-0.584	-0.468	-0.237	-0.005	0.227	0.458	0.574	0.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.10	0.17	0.27	0.41	0.46	0.41	0.28	0.18	-0.08
			Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13
	1.35-PP+1.35-CM+1.5-Q+0.9-V+0.75-N	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	
		Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	
		Vz	-0.869	-0.622	-0.499	-0.252	-0.005	0.242	0.489	0.612	0.859	
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		My	-0.09	0.20	0.31	0.45	0.50	0.45	0.32	0.21	-0.07	
		Mz	0.13	0.09	0.07	0.04	0.00	-0.04	-0.07	-0.09	-0.13	

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N5/N6	Madera	PP+CM	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.156	-0.113	-0.091	-0.048	-0.004	0.039	0.083	0.105	0.148
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.08	0.10	0.12	0.13	0.13	0.10	0.08	0.03
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.35·PP+CM	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.210	-0.151	-0.122	-0.063	-0.004	0.055	0.113	0.143	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.10	0.13	0.17	0.18	0.17	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+1.35·CM	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.158	-0.114	-0.093	-0.049	-0.006	0.038	0.081	0.103	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.07	0.09	0.12	0.13	0.13	0.10	0.08	0.04
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		1.35-PP+1.35-CM	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
			Vz	-0.211	-0.152	-0.123	-0.064	-0.006	0.053	0.112	0.141	0.200
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.03	0.10	0.13	0.16	0.18	0.17	0.14	0.11	0.05
			Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PP+CM+1.5-Q	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.156	-0.113	-0.091	-0.048	-0.004	0.039	0.083	0.105	0.148
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.06	0.08	0.11	0.12	0.11	0.09	0.07	0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35-PP+CM+1.5-Q	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.210	-0.151	-0.122	-0.063	-0.004	0.055	0.113	0.143	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.09	0.12	0.15	0.17	0.16	0.12	0.10	0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+1.35-CM+1.5-Q	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
			Vz	-0.158	-0.114	-0.093	-0.049	-0.006	0.038	0.081	0.103	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.06	0.08	0.11	0.12	0.11	0.09	0.07	0.02
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		1.35-PP+1.35-CM+1.5-Q	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
			Vz	-0.211	-0.152	-0.123	-0.064	-0.006	0.053	0.112	0.141	0.200
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.02	0.09	0.12	0.15	0.17	0.16	0.12	0.10	0.03
			Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148
			Vz	-0.156	-0.113	-0.091	-0.048	-0.004	0.039	0.083	0.105	0.148
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.15	0.20	0.22	0.25	0.26	0.25	0.23	0.21	0.16
			Mz	-0.20	-0.14	-0.11	-0.06	0.00	0.06	0.11	0.14	0.20
		1.35-PP+CM+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149
			Vz	-0.210	-0.151	-0.122	-0.063	-0.004	0.055	0.113	0.143	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.16	0.23	0.26	0.29	0.31	0.30	0.26	0.24	0.17
			Mz	-0.20	-0.14	-0.11	-0.06	0.00	0.06	0.11	0.14	0.20
		PP+1.35-CM+1.5-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148
			Vz	-0.158	-0.114	-0.093	-0.049	-0.006	0.038	0.081	0.103	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.15	0.20	0.22	0.25	0.26	0.25	0.23	0.21	0.16
			Mz	-0.20	-0.14	-0.11	-0.06	0.00	0.06	0.11	0.14	0.20
		1.35-PP+1.35-CM+1.5-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149
			Vz	-0.211	-0.152	-0.123	-0.064	-0.006	0.053	0.112	0.141	0.200
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.16	0.23	0.26	0.29	0.31	0.30	0.26	0.24	0.17
			Mz	-0.20	-0.14	-0.11	-0.06	0.00	0.06	0.11	0.14	0.20
		PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151
			Vz	-0.156	-0.113	-0.091	-0.048	-0.004	0.039	0.083	0.105	0.148

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.14	0.19	0.21	0.24	0.25	0.24	0.22	0.20	0.15
			Mz	-0.20	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.20
		1.35-PP+CM+1.05-Q+1.5-V	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152
			Vz	-0.210	-0.151	-0.122	-0.063	-0.004	0.055	0.113	0.143	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.15	0.22	0.25	0.28	0.30	0.29	0.25	0.23	0.16
			Mz	-0.20	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.20
		PP+1.35-CM+1.05-Q+1.5-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151
			Vz	-0.158	-0.114	-0.093	-0.049	-0.006	0.038	0.081	0.103	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.14	0.19	0.21	0.24	0.25	0.24	0.22	0.20	0.15
			Mz	-0.20	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.20
		1.35-PP+1.35-CM+1.05-Q+1.5-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152
			Vz	-0.211	-0.152	-0.123	-0.064	-0.006	0.053	0.112	0.141	0.200
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.15	0.22	0.25	0.28	0.30	0.29	0.26	0.23	0.16
			Mz	-0.20	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.20
		PP+CM+1.5-Q+0.9-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093
			Vz	-0.156	-0.113	-0.091	-0.048	-0.004	0.039	0.083	0.105	0.148
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.09	0.14	0.16	0.19	0.20	0.19	0.16	0.15	0.10
			Mz	-0.13	-0.09	-0.07	-0.03	0.00	0.03	0.07	0.09	0.13
		1.35-PP+CM+1.5-Q+0.9-V	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vz	-0.210	-0.151	-0.122	-0.063	-0.004	0.055	0.113	0.143	0.201
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.10	0.17	0.19	0.23	0.24	0.23	0.20	0.17	0.11
			Mz	-0.13	-0.09	-0.07	-0.03	0.00	0.03	0.07	0.09	0.13
		PP+1.35-CM+1.5-Q+0.9-V	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093
			Vz	-0.158	-0.114	-0.093	-0.049	-0.006	0.038	0.081	0.103	0.147
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.14	0.16	0.18	0.20	0.19	0.17	0.15	0.10
			Mz	-0.13	-0.09	-0.07	-0.03	0.00	0.03	0.07	0.09	0.13
		1.35-PP+1.35-CM+1.5-Q+0.9-V	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
			Vz	-0.211	-0.152	-0.123	-0.064	-0.006	0.053	0.112	0.141	0.200
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.10	0.17	0.19	0.23	0.24	0.23	0.20	0.18	0.11
			Mz	-0.13	-0.09	-0.07	-0.03	0.00	0.03	0.07	0.09	0.13
		PP+CM+1.5-N	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.473	-1.053	-0.843	-0.424	-0.004	0.415	0.835	1.045	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.91	0.99	0.91	0.67	0.49	0.00
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35-PP+CM+1.5-N	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.526	-1.091	-0.874	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.70	0.95	1.04	0.95	0.70	0.52	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		PP+1.35·CM+1.5·N	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.474	-1.055	-0.845	-0.425	-0.006	0.414	0.834	1.043	1.463
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.48	0.66	0.91	0.99	0.91	0.67	0.49	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·N	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-1.527	-1.093	-0.875	-0.440	-0.006	0.429	0.864	1.081	1.516
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.51	0.70	0.95	1.04	0.95	0.70	0.52	0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.05·Q+1.5·N	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
			Vz	-1.473	-1.053	-0.843	-0.424	-0.004	0.415	0.835	1.045	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.90	0.98	0.90	0.66	0.48	-0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		1.35·PP+CM+1.05·Q+1.5·N	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
			Vz	-1.526	-1.091	-0.874	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.50	0.69	0.94	1.03	0.94	0.69	0.51	0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+1.35·CM+1.05·Q+1.5·N	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
			Vz	-1.474	-1.055	-0.845	-0.425	-0.006	0.414	0.834	1.043	1.463
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.02	0.47	0.65	0.90	0.98	0.90	0.66	0.48	0.00
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		1.35·PP+1.35·CM+1.05·Q+1.5·N	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
			Vz	-1.527	-1.093	-0.875	-0.440	-0.006	0.429	0.864	1.081	1.516
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.50	0.69	0.94	1.03	0.95	0.70	0.51	0.01
			Mz	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
		PP+CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-1.473	-1.053	-0.843	-0.424	-0.004	0.415	0.835	1.045	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.07	0.56	0.74	0.98	1.07	0.99	0.75	0.56	0.08
			Mz	-0.13	-0.09	-0.07	-0.04	0.00	0.04	0.07	0.09	0.13
		1.35·PP+CM+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-1.526	-1.091	-0.874	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.58	0.77	1.03	1.11	1.03	0.78	0.59	0.09
			Mz	-0.13	-0.09	-0.07	-0.04	0.00	0.04	0.07	0.09	0.13
		PP+1.35·CM+0.9·V+1.5·N	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-1.474	-1.055	-0.845	-0.425	-0.006	0.414	0.834	1.043	1.463
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.07	0.55	0.74	0.98	1.07	0.99	0.75	0.57	0.08
			Mz	-0.13	-0.09	-0.07	-0.04	0.00	0.04	0.07	0.09	0.13
		1.35·PP+1.35·CM+0.9·V+1.5·N	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-1.527	-1.093	-0.875	-0.440	-0.006	0.429	0.864	1.081	1.516

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.58	0.77	1.03	1.11	1.03	0.78	0.59	0.09
			Mz	-0.13	-0.09	-0.07	-0.04	0.00	0.04	0.07	0.09	0.13
		PP+CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099
			Vz	-1.473	-1.053	-0.843	-0.424	-0.004	0.415	0.835	1.045	1.464
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.06	0.55	0.73	0.97	1.06	0.98	0.74	0.56	0.07
			Mz	-0.13	-0.10	-0.08	-0.04	0.00	0.04	0.08	0.10	0.13
		1.35·PP+CM+1.05·Q+0.9·V+1.5·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
			Vz	-1.526	-1.091	-0.874	-0.439	-0.004	0.431	0.866	1.083	1.518
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.07	0.58	0.76	1.02	1.10	1.02	0.77	0.58	0.08
			Mz	-0.13	-0.10	-0.08	-0.04	0.00	0.04	0.08	0.10	0.13
		PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099
			Vz	-1.474	-1.055	-0.845	-0.425	-0.006	0.414	0.834	1.043	1.463
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.06	0.55	0.73	0.97	1.06	0.98	0.74	0.56	0.07
			Mz	-0.13	-0.10	-0.08	-0.04	0.00	0.04	0.08	0.10	0.13
		1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
			Vz	-1.527	-1.093	-0.875	-0.440	-0.006	0.429	0.864	1.081	1.516
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.07	0.57	0.76	1.02	1.10	1.02	0.77	0.58	0.08
			Mz	-0.13	-0.10	-0.08	-0.04	0.00	0.04	0.08	0.10	0.13
		PP+CM+1.5·Q+0.75·N	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.815	-0.583	-0.467	-0.236	-0.004	0.227	0.459	0.575	0.806
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.26	0.37	0.50	0.55	0.50	0.37	0.27	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+CM+1.5·Q+0.75·N	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.868	-0.621	-0.498	-0.251	-0.004	0.243	0.489	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.01	0.29	0.40	0.54	0.59	0.55	0.41	0.30	0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+1.35·CM+1.5·Q+0.75·N	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.816	-0.584	-0.469	-0.237	-0.006	0.226	0.458	0.573	0.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	-0.01	0.26	0.36	0.50	0.55	0.51	0.37	0.27	0.01
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1.35·PP+1.35·CM+1.5·Q+0.75·N	N	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
			Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
			Vz	-0.869	-0.622	-0.499	-0.252	-0.006	0.241	0.488	0.611	0.858
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.00	0.29	0.40	0.54	0.59	0.55	0.41	0.30	0.02
			Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01
		PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152
			Vz	-0.815	-0.583	-0.467	-0.236	-0.004	0.227	0.459	0.575	0.806
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.14	0.41	0.51	0.64	0.69	0.65	0.51	0.41	0.15
			Mz	-0.20	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.20

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		1.35·PP+CM+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152
			Vz	-0.868	-0.621	-0.498	-0.251	-0.004	0.243	0.489	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.15	0.43	0.54	0.69	0.74	0.69	0.55	0.44	0.16
			Mz	-0.21	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.21
		PP+1.35·CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152
			Vz	-0.816	-0.584	-0.469	-0.237	-0.006	0.226	0.458	0.573	0.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.13	0.40	0.51	0.64	0.69	0.65	0.51	0.41	0.15
			Mz	-0.20	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.20
		1.35·PP+1.35·CM+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152
			Vz	-0.869	-0.622	-0.499	-0.252	-0.006	0.241	0.488	0.611	0.858
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.14	0.43	0.54	0.68	0.74	0.69	0.55	0.44	0.16
			Mz	-0.21	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.21
		PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154
			Vz	-0.815	-0.583	-0.467	-0.236	-0.004	0.227	0.459	0.575	0.806
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.13	0.40	0.50	0.63	0.68	0.64	0.50	0.40	0.14
			Mz	-0.21	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.21
		1.35·PP+CM+1.05·Q+1.5·V+0.75·N	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Vy	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155
			Vz	-0.868	-0.621	-0.498	-0.251	-0.004	0.243	0.489	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.14	0.42	0.53	0.68	0.73	0.68	0.54	0.43	0.15
			Mz	-0.21	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.21
		PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154
			Vz	-0.816	-0.584	-0.469	-0.237	-0.006	0.226	0.458	0.573	0.805
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.12	0.39	0.50	0.63	0.68	0.64	0.50	0.41	0.14
			Mz	-0.21	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.21
		1.35·PP+1.35·CM+1.05·Q+1.5·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155
			Vz	-0.869	-0.622	-0.499	-0.252	-0.006	0.241	0.488	0.611	0.858
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.13	0.42	0.53	0.68	0.73	0.68	0.54	0.43	0.15
			Mz	-0.21	-0.15	-0.12	-0.06	0.00	0.06	0.12	0.15	0.21
		PP+CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-0.815	-0.583	-0.467	-0.236	-0.004	0.227	0.459	0.575	0.806
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.07	0.34	0.44	0.58	0.62	0.58	0.45	0.35	0.08
			Mz	-0.13	-0.09	-0.07	-0.04	0.00	0.04	0.07	0.09	0.13
		1.35·PP+CM+1.5·Q+0.9·V+0.75·N	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-0.868	-0.621	-0.498	-0.251	-0.004	0.243	0.489	0.613	0.860
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.37	0.48	0.62	0.67	0.62	0.48	0.38	0.09
			Mz	-0.13	-0.09	-0.08	-0.04	0.00	0.04	0.08	0.09	0.13
		PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-0.816	-0.584	-0.469	-0.237	-0.006	0.226	0.458	0.573	0.805

Esfuerzos en barras, por combinación												
Barra	Combinación		Esfuerzo	Posiciones en la barra								
	Tipo	Descripción		0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.07	0.34	0.44	0.58	0.62	0.58	0.45	0.35	0.08
			Mz	-0.13	-0.09	-0.07	-0.04	0.00	0.04	0.07	0.09	0.13
		1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N	N	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
			Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
			Vz	-0.869	-0.622	-0.499	-0.252	-0.006	0.241	0.488	0.611	0.858
			Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			My	0.08	0.37	0.48	0.62	0.67	0.62	0.48	0.38	0.09
			Mz	-0.13	-0.09	-0.08	-0.04	0.00	0.04	0.08	0.09	0.13

2.3.2.1.3.- Envoltentes

Envoltentes de los esfuerzos en barras									
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
N3/N5	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{mín}	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099
		Vy _{máx}	4.087	4.038	3.912	3.769	3.626	3.483	3.341
		Vz _{mín}	-111.480	-109.636	-107.793	-105.949	-104.105	-102.261	-100.417
		Vz _{máx}	-14.930	-14.697	-14.464	-14.231	-13.998	-13.764	-13.531
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	0.00	2.59	5.14	7.65	10.12	12.55	14.94
		My _{máx}	0.00	19.35	38.37	57.08	75.45	93.51	111.25
		Mz _{mín}	0.00	-0.71	-1.41	-2.08	-2.73	-3.35	-3.95
		Mz _{máx}	0.00	0.02	0.03	0.05	0.07	0.09	0.10

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N5/N7	Madera	N _{mín}	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263
		N _{máx}	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
		Vy _{mín}	-1.769	-1.769	-1.917	-2.083	-2.249	-2.415	-2.442	-2.442	-2.442
		Vy _{máx}	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464	0.464
		Vz _{mín}	-99.453	-97.310	-95.167	-93.025	-90.882	-88.739	-86.596	-84.453	-82.310
		Vz _{máx}	-13.315	-13.044	-12.773	-12.502	-12.231	-11.960	-11.689	-11.418	-11.147
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My _{mín}	14.96	17.64	20.26	22.83	25.35	27.81	30.21	32.56	34.86
		My _{máx}	111.33	131.34	150.91	170.05	188.75	207.01	224.84	242.23	259.19
		Mz _{mín}	-3.68	-3.33	-2.99	-2.64	-2.25	-1.83	-1.39	-0.95	-0.66
		Mz _{máx}	0.12	0.03	-0.01	-0.02	-0.04	-0.05	-0.07	-0.08	-0.10

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N7/N9	Madera	N _{mín}	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840
		N _{máx}	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
		Vy _{mín}	-0.861	-0.861	-0.861	-0.861	-0.872	-0.972	-0.988	-0.988	-0.988

Envoltantes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	0.328	0.328	0.180	0.014	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz _{mín}	-81.294	-79.151	-77.008	-74.865	-72.722	-70.579	-68.437	-66.294	-64.151
		Vz _{máx}	-10.879	-10.608	-10.337	-10.066	-9.795	-9.524	-9.253	-8.982	-8.711
		Mt _{mín}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mt _{máx}	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
		My _{mín}	34.81	36.99	39.12	41.20	43.22	45.18	47.09	48.95	50.75
		My _{máx}	259.14	275.46	291.34	306.78	321.79	336.36	350.50	364.20	377.46
		Mz _{mín}	-0.63	-0.49	-0.36	-0.25	-0.18	-0.13	-0.06	0.01	0.08
		Mz _{máx}	-0.06	-0.07	-0.04	-0.02	0.08	0.24	0.42	0.59	0.77

Envoltantes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N9/N11	Madera	N _{mín}	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119	-10.119
		N _{máx}	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410
		Vy _{mín}	0.156	0.156	0.156	0.156	0.132	-0.034	-0.061	-0.061	-0.061
		Vy _{máx}	1.268	1.268	1.179	1.080	0.994	0.994	0.994	0.994	0.994
		Vz _{mín}	-63.136	-60.993	-58.850	-56.707	-54.564	-52.421	-50.279	-48.136	-45.993
		Vz _{máx}	-8.445	-8.174	-7.903	-7.632	-7.361	-7.089	-6.818	-6.547	-6.276
		Mt _{mín}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mt _{máx}	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My _{mín}	50.79	52.48	54.12	55.70	57.22	58.69	60.11	61.47	62.77
		My _{máx}	377.49	390.11	402.30	414.05	425.36	436.24	446.69	456.69	466.26
		Mz _{mín}	0.12	0.00	-0.11	-0.19	-0.26	-0.40	-0.54	-0.72	-0.90
		Mz _{máx}	0.77	0.56	0.36	0.16	-0.01	-0.04	-0.07	-0.10	-0.13

Envoltantes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N11/N13	Madera	N _{mín}	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636	-11.636
		N _{máx}	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465
		Vy _{mín}	-1.092	-1.092	-1.092	-1.092	-1.129	-1.228	-1.245	-1.245	-1.245
		Vy _{máx}	0.248	0.248	0.100	-0.066	-0.172	-0.172	-0.172	-0.172	-0.172
		Vz _{mín}	-44.979	-42.828	-40.677	-38.525	-36.374	-34.223	-32.072	-29.921	-27.770
		Vz _{máx}	-6.011	-5.734	-5.456	-5.179	-4.902	-4.625	-4.348	-4.071	-3.794
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My _{mín}	62.75	63.95	65.08	66.16	67.19	68.16	69.07	69.93	70.73
		My _{máx}	466.26	475.19	483.68	491.73	499.35	506.53	513.27	519.57	525.44
		Mz _{mín}	-0.88	-0.71	-0.53	-0.38	-0.23	-0.17	-0.08	0.01	0.09
		Mz _{máx}	-0.13	-0.10	-0.06	-0.03	0.04	0.25	0.48	0.70	0.92

Envoltantes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N13/N15	Madera	N _{mín}	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329	-12.329
		N _{máx}	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621
		Vy _{mín}	0.180	0.180	0.180	0.180	0.117	-0.049	-0.076	-0.076	-0.076

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	1.396	1.396	1.307	1.207	1.145	1.145	1.145	1.145	1.145
		Vz _{mín}	-26.756	-24.613	-22.470	-20.327	-18.185	-16.042	-13.899	-11.756	-9.613
		Vz _{máx}	-3.528	-3.257	-2.986	-2.715	-2.444	-2.173	-1.902	-1.631	-1.360
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	70.75	71.44	72.07	72.65	73.18	73.65	74.06	74.42	74.72
		My _{máx}	525.44	530.67	535.45	539.81	543.72	547.20	550.25	552.86	555.03
		Mz _{mín}	0.11	-0.01	-0.12	-0.20	-0.25	-0.40	-0.57	-0.77	-0.97
		Mz _{máx}	0.92	0.69	0.45	0.22	0.00	-0.04	-0.08	-0.11	-0.15

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N15/N17	Madera	N _{mín}	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219	-12.219
		N _{máx}	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727
		Vy _{mín}	-1.168	-1.168	-1.168	-1.168	-1.215	-1.314	-1.330	-1.330	-1.330
		Vy _{máx}	0.219	0.219	0.070	-0.096	-0.184	-0.184	-0.184	-0.184	-0.184
		Vz _{mín}	-8.599	-6.448	-4.297	-2.146	0.000	0.291	0.568	0.845	1.122
		Vz _{máx}	-1.095	-0.818	-0.540	-0.263	0.019	2.156	4.307	6.458	8.609
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	74.72	74.92	75.06	75.14	75.16	75.13	75.05	74.90	74.70
		My _{máx}	555.04	556.57	557.66	558.31	558.53	558.31	557.65	556.56	555.03
		Mz _{mín}	-0.98	-0.79	-0.59	-0.42	-0.24	-0.17	-0.07	0.02	0.11
		Mz _{máx}	-0.15	-0.11	-0.07	-0.04	0.00	0.24	0.48	0.71	0.95

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N17/N19	Madera	N _{mín}	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304	-11.304
		N _{máx}	0.832	0.832	0.832	0.832	0.832	0.832	0.832	0.832	0.832
		Vy _{mín}	0.180	0.180	0.180	0.180	0.087	-0.079	-0.106	-0.106	-0.106
		Vy _{máx}	1.377	1.377	1.288	1.189	1.145	1.145	1.145	1.145	1.145
		Vz _{mín}	1.388	1.659	1.930	2.201	2.472	2.743	3.014	3.285	3.556
		Vz _{máx}	9.623	11.766	13.909	16.052	18.195	20.338	22.481	24.623	26.766
		Mt _{mín}	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	74.68	74.37	74.00	73.58	73.11	72.58	71.99	71.35	70.66
		My _{máx}	555.02	552.84	550.23	547.19	543.70	539.78	535.43	530.64	525.41
		Mz _{mín}	0.09	-0.02	-0.13	-0.19	-0.23	-0.36	-0.53	-0.73	-0.93
		Mz _{máx}	0.95	0.72	0.48	0.25	0.02	-0.03	-0.07	-0.11	-0.14

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N19/N21	Madera	N _{mín}	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561	-9.561
		N _{máx}	0.989	0.989	0.989	0.989	0.989	0.989	0.989	0.989	0.989
		Vy _{mín}	-1.092	-1.092	-1.092	-1.092	-1.149	-1.248	-1.265	-1.265	-1.265

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	0.215	0.215	0.066	-0.100	-0.172	-0.172	-0.172	-0.172	-0.172
		Vz _{mín}	3.822	4.093	4.364	4.635	4.906	5.177	5.448	5.719	5.990
		Vz _{máx}	27.781	29.923	32.066	34.209	36.352	38.495	40.638	42.781	44.924
		Mt _{mín}	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mt _{máx}	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My _{mín}	70.68	69.87	69.01	68.10	67.13	66.10	65.02	63.89	62.70
		My _{máx}	525.44	519.57	513.26	506.52	499.35	491.74	483.69	475.21	466.29
		Mz _{mín}	-0.95	-0.78	-0.59	-0.43	-0.26	-0.16	-0.07	0.02	0.11
		Mz _{máx}	-0.14	-0.11	-0.07	-0.04	0.00	0.19	0.42	0.64	0.86

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N21/N23	Madera	N _{mín}	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044	-7.044
		N _{máx}	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043
		Vy _{mín}	0.156	0.156	0.156	0.156	0.020	-0.146	-0.173	-0.173	-0.173
		Vy _{máx}	1.201	1.201	1.112	1.012	0.994	0.994	0.994	0.994	0.994
		Vz _{mín}	6.256	6.527	6.798	7.069	7.340	7.611	7.882	8.153	8.424
		Vz _{máx}	45.938	48.081	50.224	52.367	54.510	56.653	58.795	60.938	63.081
		Mt _{mín}	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	62.65	61.35	59.99	58.58	57.12	55.59	54.02	52.39	50.70
		My _{máx}	466.26	456.70	446.70	436.27	425.40	414.10	402.36	390.18	377.57
		Mz _{mín}	0.06	-0.04	-0.13	-0.18	-0.21	-0.28	-0.42	-0.58	-0.76
		Mz _{máx}	0.86	0.66	0.45	0.25	0.06	-0.02	-0.06	-0.09	-0.09

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N23/N25	Madera	N _{mín}	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694	-3.694
		N _{máx}	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253
		Vy _{mín}	-0.861	-0.861	-0.861	-0.861	-0.943	-1.043	-1.059	-1.059	-1.059
		Vy _{máx}	0.209	0.209	0.061	-0.105	-0.134	-0.134	-0.134	-0.134	-0.134
		Vz _{mín}	8.691	8.962	9.233	9.504	9.775	10.046	10.317	10.588	10.859
		Vz _{máx}	64.097	66.239	68.382	70.525	72.668	74.811	76.954	79.097	81.239
		Mt _{mín}	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mt _{máx}	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My _{mín}	50.75	48.96	47.11	45.20	43.24	41.23	39.16	37.03	34.85
		My _{máx}	377.60	364.35	350.66	336.53	321.97	306.97	291.54	275.67	259.37
		Mz _{mín}	-0.79	-0.65	-0.51	-0.38	-0.23	-0.12	-0.02	0.07	0.10
		Mz _{máx}	-0.12	-0.09	-0.06	-0.04	-0.01	0.11	0.29	0.46	0.68

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N25/N27	Madera	N _{mín}	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
		N _{máx}	2.639	2.639	2.639	2.639	2.639	2.639	2.639	2.639	2.639
		Vy _{mín}	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	3.323	3.323	3.175	3.009	2.843	2.677	2.650	2.650	2.650
		Vz _{mín}	11.127	11.398	11.669	11.940	12.211	12.482	12.753	13.024	13.295
		Vz _{máx}	82.256	84.399	86.542	88.685	90.828	92.970	95.113	97.256	99.399
		Mt _{mín}	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mt _{máx}	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My _{mín}	34.71	32.42	30.08	27.68	25.22	22.71	20.14	17.52	14.85
		My _{máx}	259.32	242.37	224.99	207.17	188.91	170.22	151.10	131.54	111.54
		Mz _{mín}	0.06	-0.56	-1.17	-1.75	-2.29	-2.80	-3.28	-3.78	-4.32
		Mz _{máx}	0.64	0.54	0.45	0.35	0.26	0.16	0.07	0.00	-0.02

Envoltentes de los esfuerzos en barras									
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
N27/N1	Madera	N _{mín}	0.217	0.217	0.217	0.217	0.217	0.217	0.217
		N _{máx}	6.925	6.925	6.925	6.925	6.925	6.925	6.925
		Vy _{mín}	-4.113	-4.113	-4.215	-4.359	-4.502	-4.645	-4.788
		Vy _{máx}	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz _{mín}	13.511	13.745	13.979	14.213	14.446	14.680	14.914
		Vz _{máx}	100.362	102.211	104.061	105.910	107.759	109.608	111.457
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	14.97	12.57	10.14	7.67	5.15	2.60	0.00
		My _{máx}	111.52	93.75	75.65	57.22	38.47	19.40	0.00
		Mz _{mín}	-4.61	-3.89	-3.16	-2.41	-1.63	-0.83	0.00
		Mz _{máx}	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00

Envoltentes de los esfuerzos en barras									
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.350 m	0.525 m	0.700 m	0.875 m	1.050 m
N4/N6	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{mín}	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
		Vy _{máx}	4.027	4.027	3.925	3.782	3.639	3.496	3.353
		Vz _{mín}	-111.404	-109.560	-107.716	-105.872	-104.028	-102.184	-100.341
		Vz _{máx}	-14.874	-14.641	-14.407	-14.174	-13.941	-13.708	-13.474
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	0.00	2.58	5.12	7.63	10.09	12.50	14.88
		My _{máx}	0.00	19.33	38.35	57.03	75.40	93.44	111.17
		Mz _{mín}	0.00	-0.70	-1.40	-2.08	-2.73	-3.35	-3.95
		Mz _{máx}	0.00	0.02	0.03	0.05	0.07	0.08	0.10

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N6/N8	Madera	N _{mín}	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320
		N _{máx}	3.272	3.272	3.272	3.272	3.272	3.272	3.272	3.272	3.272
		Vy _{mín}	-1.770	-1.770	-1.918	-2.084	-2.250	-2.416	-2.443	-2.443	-2.443

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463
		Vz _{mín}	-99.388	-97.245	-95.102	-92.959	-90.816	-88.674	-86.531	-84.388	-82.245
		Vz _{máx}	-13.266	-12.995	-12.724	-12.453	-12.182	-11.911	-11.640	-11.369	-11.098
		Mt _{mín}	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	14.90	17.57	20.18	22.74	25.25	27.70	30.09	32.43	34.72
		My _{máx}	111.25	131.24	150.80	169.93	188.61	206.87	224.68	242.06	259.01
		Mz _{mín}	-3.69	-3.33	-2.99	-2.64	-2.25	-1.83	-1.39	-0.95	-0.66
		Mz _{máx}	0.12	0.03	-0.01	-0.03	-0.04	-0.05	-0.07	-0.08	-0.10

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N8/N10	Madera	N _{mín}	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211
		N _{máx}	7.832	7.832	7.832	7.832	7.832	7.832	7.832	7.832	7.832
		Vy _{mín}	-0.861	-0.861	-0.861	-0.861	-0.872	-0.972	-0.988	-0.988	-0.988
		Vy _{máx}	0.328	0.328	0.180	0.014	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz _{mín}	-81.230	-79.087	-76.944	-74.801	-72.658	-70.516	-68.373	-66.230	-64.087
		Vz _{máx}	-10.832	-10.561	-10.290	-10.019	-9.748	-9.477	-9.206	-8.935	-8.664
		Mt _{mín}	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	34.67	36.85	38.97	41.03	43.04	45.00	46.90	48.74	50.53
		My _{máx}	258.96	275.26	291.13	306.56	321.55	336.11	350.23	363.92	377.17
		Mz _{mín}	-0.63	-0.49	-0.36	-0.25	-0.18	-0.13	-0.06	0.01	0.08
		Mz _{máx}	-0.06	-0.07	-0.04	-0.02	0.08	0.24	0.42	0.59	0.77

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N10/N12	Madera	N _{mín}	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402	-0.402
		N _{máx}	10.126	10.126	10.126	10.126	10.126	10.126	10.126	10.126	10.126
		Vy _{mín}	0.156	0.156	0.156	0.156	0.133	-0.033	-0.060	-0.060	-0.060
		Vy _{máx}	1.269	1.269	1.180	1.080	0.995	0.995	0.995	0.995	0.995
		Vz _{mín}	-63.070	-60.927	-58.784	-56.642	-54.499	-52.356	-50.213	-48.070	-45.927
		Vz _{máx}	-8.396	-8.125	-7.854	-7.583	-7.312	-7.041	-6.770	-6.499	-6.228
		Mt _{mín}	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	50.58	52.26	53.89	55.46	56.97	58.43	59.83	61.18	62.48
		My _{máx}	377.20	389.81	401.98	413.72	425.02	435.89	446.32	456.31	465.87
		Mz _{mín}	0.12	0.00	-0.11	-0.19	-0.26	-0.40	-0.54	-0.72	-0.90
		Mz _{máx}	0.77	0.56	0.36	0.16	-0.01	-0.04	-0.07	-0.10	-0.13

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N12/N14	Madera	N _{mín}	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470	-0.470
		N _{máx}	11.632	11.632	11.632	11.632	11.632	11.632	11.632	11.632	11.632
		Vy _{mín}	-1.093	-1.093	-1.093	-1.093	-1.129	-1.229	-1.245	-1.245	-1.245

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	0.247	0.247	0.099	-0.067	-0.172	-0.172	-0.172	-0.172	-0.172
		Vz _{mín}	-44.910	-42.767	-40.624	-38.481	-36.338	-34.195	-32.052	-29.910	-27.767
		Vz _{máx}	-5.960	-5.688	-5.417	-5.146	-4.875	-4.604	-4.333	-4.062	-3.791
		Mt _{mín}	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	62.46	63.64	64.77	65.85	66.87	67.83	68.74	69.59	70.39
		My _{máx}	465.86	474.78	483.26	491.30	498.91	506.08	512.82	519.12	524.99
		Mz _{mín}	-0.88	-0.71	-0.53	-0.38	-0.23	-0.17	-0.08	0.01	0.09
		Mz _{máx}	-0.13	-0.10	-0.06	-0.03	0.04	0.25	0.48	0.70	0.92

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N14/N16	Madera	N _{mín}	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619	-0.619
		N _{máx}	12.331	12.331	12.331	12.331	12.331	12.331	12.331	12.331	12.331
		Vy _{mín}	0.181	0.181	0.181	0.181	0.118	-0.048	-0.075	-0.075	-0.075
		Vy _{máx}	1.396	1.396	1.307	1.208	1.146	1.146	1.146	1.146	1.146
		Vz _{mín}	-26.749	-24.606	-22.463	-20.320	-18.177	-16.034	-13.891	-11.749	-9.606
		Vz _{máx}	-3.523	-3.252	-2.981	-2.710	-2.439	-2.168	-1.897	-1.626	-1.355
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	70.41	71.10	71.74	72.31	72.84	73.31	73.72	74.08	74.38
		My _{máx}	524.99	530.21	535.00	539.35	543.27	546.74	549.79	552.39	554.57
		Mz _{mín}	0.11	-0.01	-0.12	-0.20	-0.25	-0.40	-0.57	-0.77	-0.98
		Mz _{máx}	0.92	0.69	0.45	0.22	0.00	-0.04	-0.08	-0.11	-0.15

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N16/N18	Madera	N _{mín}	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726
		N _{máx}	12.220	12.220	12.220	12.220	12.220	12.220	12.220	12.220	12.220
		Vy _{mín}	-1.169	-1.169	-1.169	-1.169	-1.215	-1.315	-1.331	-1.331	-1.331
		Vy _{máx}	0.218	0.218	0.070	-0.096	-0.184	-0.184	-0.184	-0.184	-0.184
		Vz _{mín}	-8.588	-6.445	-4.302	-2.159	-0.016	0.269	0.540	0.811	1.082
		Vz _{máx}	-1.086	-0.815	-0.544	-0.273	-0.002	2.127	4.270	6.412	8.555
		Mt _{mín}	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	74.38	74.57	74.71	74.80	74.82	74.80	74.71	74.58	74.38
		My _{máx}	554.57	556.10	557.19	557.85	558.07	557.86	557.21	556.12	554.60
		Mz _{mín}	-0.98	-0.79	-0.59	-0.42	-0.24	-0.17	-0.07	0.02	0.11
		Mz _{máx}	-0.15	-0.11	-0.07	-0.04	0.00	0.24	0.48	0.72	0.95

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N18/N20	Madera	N _{mín}	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836
		N _{máx}	11.301	11.301	11.301	11.301	11.301	11.301	11.301	11.301	11.301
		Vy _{mín}	0.181	0.181	0.181	0.181	0.087	-0.079	-0.106	-0.106	-0.106

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	1.378	1.378	1.289	1.189	1.146	1.146	1.146	1.146	1.146
		Vz _{mín}	1.351	1.622	1.893	2.164	2.435	2.706	2.977	3.248	3.519
		Vz _{máx}	9.573	11.716	13.859	16.002	18.145	20.287	22.430	24.573	26.716
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	74.36	74.06	73.70	73.29	72.82	72.30	71.72	71.09	70.40
		My _{máx}	554.59	552.42	549.82	546.79	543.32	539.41	535.06	530.28	525.07
		Mz _{mín}	0.09	-0.02	-0.13	-0.19	-0.23	-0.36	-0.53	-0.73	-0.93
		Mz _{máx}	0.95	0.72	0.48	0.25	0.02	-0.03	-0.07	-0.11	-0.14

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N20/N22	Madera	N _{mín}	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983
		N _{máx}	9.566	9.566	9.566	9.566	9.566	9.566	9.566	9.566	9.566
		Vy _{mín}	-1.093	-1.093	-1.093	-1.093	-1.149	-1.249	-1.265	-1.265	-1.265
		Vy _{máx}	0.214	0.214	0.066	-0.100	-0.172	-0.172	-0.172	-0.172	-0.172
		Vz _{mín}	3.787	4.058	4.329	4.600	4.871	5.142	5.413	5.684	5.955
		Vz _{máx}	27.734	29.876	32.019	34.162	36.305	38.448	40.591	42.734	44.877
		Mt _{mín}	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	70.42	69.62	68.77	67.86	66.90	65.88	64.81	63.68	62.50
		My _{máx}	525.09	519.23	512.94	506.21	499.04	491.44	483.40	474.93	466.02
		Mz _{mín}	-0.95	-0.78	-0.59	-0.43	-0.26	-0.16	-0.07	0.02	0.12
		Mz _{máx}	-0.14	-0.11	-0.07	-0.04	0.00	0.19	0.42	0.64	0.86

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.814 m	1.017 m	1.220 m	1.424 m	1.627 m
N22/N24	Madera	N _{mín}	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052	-1.052
		N _{máx}	7.038	7.038	7.038	7.038	7.038	7.038	7.038	7.038	7.038
		Vy _{mín}	0.156	0.156	0.156	0.156	0.020	-0.146	-0.173	-0.173	-0.173
		Vy _{máx}	1.201	1.201	1.112	1.013	0.995	0.995	0.995	0.995	0.995
		Vz _{mín}	6.223	6.494	6.765	7.036	7.307	7.578	7.849	8.120	8.391
		Vz _{máx}	45.894	48.036	50.179	52.322	54.465	56.608	58.751	60.894	63.037
		Mt _{mín}	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	62.44	61.15	59.80	58.40	56.94	55.43	53.86	52.23	50.56
		My _{máx}	465.98	456.43	446.45	436.02	425.16	413.87	402.14	389.97	377.37
		Mz _{mín}	0.06	-0.04	-0.13	-0.18	-0.21	-0.28	-0.42	-0.58	-0.76
		Mz _{máx}	0.86	0.66	0.45	0.25	0.06	-0.02	-0.06	-0.09	-0.09

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N24/N26	Madera	N _{mín}	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243	-1.243
		N _{máx}	3.701	3.701	3.701	3.701	3.701	3.701	3.701	3.701	3.701
		Vy _{mín}	-0.861	-0.861	-0.861	-0.861	-0.943	-1.043	-1.059	-1.059	-1.059

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
		Vy _{máx}	0.210	0.210	0.061	-0.105	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz _{mín}	8.659	8.930	9.201	9.472	9.743	10.014	10.285	10.556	10.827
		Vz _{máx}	64.053	66.196	68.339	70.482	72.624	74.767	76.910	79.053	81.196
		Mt _{mín}	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
		Mt _{máx}	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My _{mín}	50.60	48.82	46.97	45.07	43.12	41.11	39.05	36.93	34.75
		My _{máx}	377.40	364.15	350.47	336.36	321.81	306.82	291.39	275.54	259.24
		Mz _{mín}	-0.79	-0.65	-0.51	-0.38	-0.23	-0.12	-0.02	0.07	0.10
		Mz _{máx}	-0.12	-0.09	-0.06	-0.04	-0.01	0.11	0.29	0.46	0.68

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.203 m	0.407 m	0.610 m	0.813 m	1.017 m	1.220 m	1.424 m	1.627 m
N26/N28	Madera	N _{mín}	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648
		N _{máx}	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
		Vy _{mín}	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
		Vy _{máx}	3.322	3.322	3.174	3.008	2.842	2.676	2.649	2.649	2.649
		Vz _{mín}	11.093	11.364	11.635	11.906	12.177	12.448	12.719	12.990	13.261
		Vz _{máx}	82.211	84.354	86.497	88.639	90.782	92.925	95.068	97.211	99.354
		Mt _{mín}	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		Mt _{máx}	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My _{mín}	34.61	32.33	29.99	27.60	25.15	22.65	20.09	17.47	14.80
		My _{máx}	259.18	242.25	224.87	207.06	188.82	170.14	151.02	131.47	111.48
		Mz _{mín}	0.06	-0.56	-1.17	-1.75	-2.29	-2.80	-3.28	-3.78	-4.31
		Mz _{máx}	0.64	0.54	0.45	0.35	0.26	0.16	0.07	0.00	-0.02

Envoltentes de los esfuerzos en barras									
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra						
			0.000 m	0.175 m	0.351 m	0.526 m	0.702 m	0.877 m	1.053 m
N28/N2	Madera	N _{mín}	-6.925	-6.925	-6.925	-6.925	-6.925	-6.925	-6.925
		N _{máx}	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217
		Vy _{mín}	-4.111	-4.111	-4.213	-4.357	-4.500	-4.643	-4.786
		Vy _{máx}	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz _{mín}	13.470	13.704	13.938	14.172	14.405	14.639	14.873
		Vz _{máx}	100.307	102.156	104.005	105.854	107.704	109.553	111.402
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	14.92	12.54	10.11	7.65	5.14	2.59	0.00
		My _{máx}	111.46	93.70	75.61	57.19	38.45	19.39	0.00
		Mz _{mín}	-4.61	-3.89	-3.16	-2.41	-1.63	-0.83	0.00
		Mz _{máx}	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N7/N8	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		V _y _{mín}	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy _{máx}	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz _{mín}	-1.522	-1.087	-0.870	-0.435	0.000	0.044	0.087	0.109	0.152
		Vz _{máx}	-0.152	-0.109	-0.087	-0.044	0.000	0.435	0.870	1.087	1.522
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	0.05	0.07	0.10	0.11	0.10	0.07	0.06	-0.03
		My _{máx}	0.13	0.56	0.75	1.00	1.08	1.00	0.75	0.56	0.13
		Mz _{mín}	-0.04	-0.03	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N9/N10	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{mín}	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-1.522	-1.087	-0.870	-0.435	0.000	0.044	0.087	0.109	0.152
		Vz _{máx}	-0.152	-0.109	-0.087	-0.044	0.000	0.435	0.870	1.087	1.522
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	0.04	0.06	0.09	0.09	0.08	0.06	0.04	-0.05
		My _{máx}	0.08	0.52	0.71	0.96	1.04	0.96	0.71	0.52	0.07
		Mz _{mín}	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N11/N12	Madera	N _{mín}	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		N _{máx}	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy _{mín}	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-1.521	-1.086	-0.868	-0.434	0.001	0.045	0.088	0.110	0.154
		Vz _{máx}	-0.151	-0.107	-0.085	-0.042	0.002	0.436	0.871	1.089	1.524
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.06	0.03	0.05	0.07	0.08	0.07	0.05	0.03	-0.06
		My _{máx}	0.06	0.51	0.70	0.95	1.03	0.95	0.69	0.50	0.06
		Mz _{mín}	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N13/N14	Madera	N _{mín}	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		N _{máx}	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy _{mín}	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-1.520	-1.086	-0.868	-0.433	0.001	0.045	0.088	0.110	0.154
		Vz _{máx}	-0.150	-0.107	-0.085	-0.042	0.002	0.437	0.872	1.089	1.524
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.06	0.02	0.04	0.07	0.07	0.06	0.04	0.02	-0.07
		My _{máx}	0.05	0.49	0.68	0.93	1.02	0.93	0.68	0.49	0.04
		Mz _{mín}	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N15/N16	Madera	N _{mín}	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		N _{máx}	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-1.520	-1.086	-0.868	-0.433	0.002	0.045	0.089	0.110	0.154
		Vz _{máx}	-0.150	-0.107	-0.085	-0.041	0.002	0.437	0.872	1.089	1.524
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.07	0.02	0.04	0.06	0.07	0.06	0.03	0.02	-0.07
		My _{máx}	0.05	0.49	0.68	0.93	1.02	0.93	0.68	0.49	0.05
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N17/N18	Madera	N _{mín}	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		N _{máx}	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz _{mín}	-1.520	-1.086	-0.868	-0.433	0.001	0.045	0.088	0.110	0.154
		Vz _{máx}	-0.150	-0.107	-0.085	-0.042	0.002	0.437	0.872	1.089	1.524
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.07	0.02	0.03	0.06	0.07	0.06	0.03	0.01	-0.08
		My _{máx}	0.05	0.49	0.68	0.93	1.01	0.93	0.68	0.49	0.04
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz _{máx}	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N19/N20	Madera	N _{mín}	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		N _{máx}	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy _{máx}	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz _{mín}	-1.521	-1.086	-0.869	-0.434	0.001	0.045	0.088	0.110	0.153
		Vz _{máx}	-0.151	-0.107	-0.086	-0.042	0.002	0.436	0.871	1.089	1.523
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.06	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.07
		My _{máx}	0.05	0.49	0.68	0.93	1.02	0.93	0.68	0.49	0.04
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02
		Mz _{máx}	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N21/N22	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz _{mín}	-1.522	-1.087	-0.870	-0.435	0.000	0.044	0.087	0.109	0.152
		Vz _{máx}	-0.152	-0.109	-0.087	-0.044	0.000	0.435	0.870	1.087	1.522
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.07	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.07
		My _{máx}	0.05	0.50	0.68	0.94	1.02	0.94	0.68	0.49	0.04
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.02	-0.03
		Mz _{máx}	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N23/N24	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz _{mín}	-1.522	-1.087	-0.870	-0.435	0.000	0.044	0.087	0.109	0.152
		Vz _{máx}	-0.152	-0.109	-0.087	-0.044	0.000	0.435	0.870	1.087	1.522
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.07	0.02	0.04	0.06	0.07	0.06	0.04	0.02	-0.07
		My _{máx}	0.05	0.50	0.69	0.94	1.02	0.94	0.69	0.50	0.05
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.03	-0.04
		Mz _{máx}	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N25/N26	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy _{máx}	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz _{mín}	-1.522	-1.087	-0.870	-0.435	0.000	0.044	0.087	0.109	0.152
		Vz _{máx}	-0.152	-0.109	-0.087	-0.044	0.000	0.435	0.870	1.087	1.522
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.11	-0.04	-0.02	0.01	0.02	0.01	-0.02	-0.03	-0.11
		My _{máx}	0.04	0.51	0.70	0.95	1.03	0.95	0.70	0.51	0.05
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.04	-0.05
		Mz _{máx}	0.05	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N7/N6	Madera	N _{mín}	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999	-5.999
		N _{máx}	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646
		Vy _{mín}	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vy _{máx}	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz _{mín}	-0.075	-0.056	-0.036	-0.017	0.002	0.016	0.031	0.045	0.059
		Vz _{máx}	-0.042	-0.028	-0.013	0.001	0.016	0.036	0.055	0.074	0.094
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.01	0.00	-0.02	-0.06
		My _{máx}	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
		Mz _{mín}	-0.03	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.05	0.06

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N7/N10	Madera	N _{mín}	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		N _{máx}	3.285	3.285	3.285	3.285	3.285	3.285	3.285	3.285	3.285
		Vy _{mín}	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-0.091	-0.071	-0.052	-0.032	-0.013	0.002	0.017	0.031	0.045
		Vz _{máx}	-0.059	-0.045	-0.030	-0.016	-0.001	0.017	0.037	0.056	0.076
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.05	-0.01	0.01	0.01	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.02	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.01
		Mz _{mín}	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N11/N10	Madera	N _{mín}	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629	-1.629
		N _{máx}	1.270	1.270	1.270	1.270	1.270	1.270	1.270	1.270	1.270
		Vy _{mín}	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy _{máx}	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz _{mín}	-0.076	-0.057	-0.037	-0.018	0.001	0.015	0.030	0.044	0.059
		Vz _{máx}	-0.048	-0.034	-0.020	-0.005	0.010	0.029	0.048	0.068	0.087
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.01	0.02	0.04	0.05	0.05	0.04	0.02	0.01	-0.02
		Mz _{mín}	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		Mz _{máx}	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N11/N14	Madera	N _{mín}	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188
		N _{máx}	2.002	2.002	2.002	2.002	2.002	2.002	2.002	2.002	2.002
		Vy _{mín}	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-0.084	-0.064	-0.045	-0.025	-0.005	0.009	0.023	0.038	0.052
		Vz _{máx}	-0.058	-0.044	-0.029	-0.015	0.000	0.018	0.038	0.057	0.077
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.01	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.01
		Mz _{mín}	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N15/N14	Madera	N _{mín}	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		N _{máx}	1.454	1.454	1.454	1.454	1.454	1.454	1.454	1.454	1.454
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz _{mín}	-0.077	-0.058	-0.038	-0.019	0.000	0.015	0.029	0.044	0.058
		Vz _{máx}	-0.055	-0.040	-0.026	-0.012	0.002	0.022	0.042	0.061	0.081
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.00	0.02	0.04	0.05	0.05	0.05	0.03	0.01	-0.01
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		Mz _{máx}	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N15/N18	Madera	N _{mín}	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278
		N _{máx}	1.252	1.252	1.252	1.252	1.252	1.252	1.252	1.252	1.252
		Vy _{mín}	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-0.078	-0.058	-0.039	-0.019	0.000	0.014	0.029	0.043	0.058
		Vz _{máx}	-0.058	-0.043	-0.029	-0.014	0.000	0.019	0.039	0.058	0.078
		Mt _{mín}	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.00	0.02	0.04	0.05	0.05	0.05	0.04	0.02	0.00
		Mz _{mín}	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N19/N18	Madera	N _{mín}	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231
		N _{máx}	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz _{mín}	-0.081	-0.061	-0.042	-0.022	-0.002	0.012	0.026	0.040	0.055
		Vz _{máx}	-0.058	-0.044	-0.029	-0.015	0.000	0.019	0.038	0.058	0.077
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.01	0.02	0.03	0.05	0.05	0.05	0.04	0.02	0.00
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz _{máx}	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N19/N22	Madera	N _{mín}	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853	-1.853
		N _{máx}	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157
		Vy _{mín}	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy _{máx}	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz _{mín}	-0.077	-0.057	-0.038	-0.018	0.000	0.015	0.029	0.044	0.058
		Vz _{máx}	-0.052	-0.038	-0.023	-0.009	0.005	0.025	0.045	0.064	0.084
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.01
		Mz _{mín}	-0.01	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz _{máx}	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N23/N22	Madera	N _{mín}	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
		N _{máx}	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy _{máx}	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz _{mín}	-0.087	-0.068	-0.048	-0.029	-0.010	0.005	0.020	0.034	0.048
		Vz _{máx}	-0.059	-0.044	-0.030	-0.015	-0.001	0.018	0.037	0.057	0.076
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.02	0.01	0.02	0.04	0.05	0.05	0.04	0.02	0.01
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.02
		Mz _{máx}	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N23/N26	Madera	N _{mín}	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424	-3.424
		N _{máx}	0.883	0.883	0.883	0.883	0.883	0.883	0.883	0.883	0.883
		Vy _{mín}	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy _{máx}	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz _{mín}	-0.076	-0.056	-0.037	-0.017	0.001	0.016	0.030	0.045	0.059
		Vz _{máx}	-0.045	-0.031	-0.017	-0.002	0.013	0.032	0.052	0.071	0.091
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.01	0.00	-0.02	-0.05
		My _{máx}	0.01	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.02
		Mz _{mín}	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.02
		Mz _{máx}	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N27/N26	Madera	N _{mín}	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		N _{máx}	7.925	7.925	7.925	7.925	7.925	7.925	7.925	7.925	7.925
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz _{mín}	-0.094	-0.074	-0.055	-0.036	-0.016	-0.001	0.013	0.028	0.042
		Vz _{máx}	-0.059	-0.045	-0.031	-0.016	-0.002	0.017	0.036	0.056	0.075
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.06	-0.02	0.00	0.01	0.02	0.01	0.01	-0.01	-0.03
		My _{máx}	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.04
		Mz _{máx}	0.07	0.06	0.04	0.03	0.02	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N25/N28	Madera	N _{mín}	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908	-7.908
		N _{máx}	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy _{máx}	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz _{mín}	-0.075	-0.056	-0.036	-0.017	0.002	0.016	0.031	0.045	0.059
		Vz _{máx}	-0.042	-0.028	-0.013	0.001	0.016	0.036	0.055	0.074	0.094
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.01	0.02	0.01	0.00	-0.02	-0.06
		My _{máx}	0.01	0.02	0.03	0.04	0.04	0.03	0.02	0.00	-0.02
		Mz _{mín}	0.00	0.00	0.00	0.00	-0.02	-0.03	-0.04	-0.06	-0.07
		Mz _{máx}	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N25/N24	Madera	N _{mín}	-0.901	-0.901	-0.901	-0.901	-0.901	-0.901	-0.901	-0.901	-0.901
		N _{máx}	3.410	3.410	3.410	3.410	3.410	3.410	3.410	3.410	3.410
		Vy _{mín}	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy _{máx}	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz _{mín}	-0.091	-0.071	-0.052	-0.032	-0.013	0.002	0.017	0.031	0.045
		Vz _{máx}	-0.059	-0.045	-0.030	-0.016	-0.001	0.017	0.037	0.056	0.076
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.05	-0.02	0.00	0.01	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.02	0.00	0.02	0.04	0.04	0.04	0.04	0.02	0.01
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.02
		Mz _{máx}	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N21/N24	Madera	N _{mín}	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735	-3.735
		N _{máx}	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz _{mín}	-0.076	-0.057	-0.037	-0.018	0.001	0.015	0.030	0.044	0.059
		Vz _{máx}	-0.048	-0.034	-0.020	-0.005	0.010	0.029	0.048	0.068	0.087
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.01	0.02	0.04	0.05	0.05	0.04	0.02	0.01	-0.02
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.02
		Mz _{máx}	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N21/N20	Madera	N _{mín}	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170	-1.170
		N _{máx}	1.843	1.843	1.843	1.843	1.843	1.843	1.843	1.843	1.843
		Vy _{mín}	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy _{máx}	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz _{mín}	-0.084	-0.064	-0.045	-0.025	-0.005	0.009	0.023	0.038	0.052
		Vz _{máx}	-0.058	-0.044	-0.029	-0.015	0.000	0.018	0.038	0.057	0.077
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.01	0.01	0.03	0.04	0.05	0.05	0.04	0.02	0.01
		Mz _{mín}	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		Mz _{máx}	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N17/N20	Madera	N _{mín}	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376	-2.376
		N _{máx}	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy _{máx}	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz _{mín}	-0.077	-0.058	-0.038	-0.019	0.000	0.015	0.029	0.044	0.058
		Vz _{máx}	-0.055	-0.040	-0.026	-0.012	0.002	0.022	0.042	0.061	0.081
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.00	0.02	0.04	0.05	0.05	0.05	0.03	0.02	-0.01
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz _{máx}	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N17/N16	Madera	N _{mín}	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253
		N _{máx}	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Vy _{mín}	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-0.078	-0.058	-0.039	-0.019	0.000	0.014	0.029	0.043	0.058
		Vz _{máx}	-0.058	-0.043	-0.029	-0.014	0.000	0.019	0.039	0.058	0.078
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.00	0.02	0.04	0.05	0.05	0.05	0.04	0.02	0.00
		Mz _{mín}	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N13/N16	Madera	N _{mín}	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459	-1.459
		N _{máx}	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Vy _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy _{máx}	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz _{mín}	-0.081	-0.061	-0.042	-0.022	-0.002	0.012	0.026	0.040	0.055
		Vz _{máx}	-0.058	-0.044	-0.029	-0.015	0.000	0.019	0.038	0.058	0.077
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.01	0.01	0.03	0.05	0.05	0.05	0.04	0.02	0.00
		Mz _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		Mz _{máx}	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N13/N12	Madera	N _{mín}	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991	-1.991
		N _{máx}	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
		Vy _{mín}	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-0.077	-0.057	-0.038	-0.018	0.000	0.015	0.029	0.044	0.058
		Vz _{máx}	-0.052	-0.038	-0.023	-0.009	0.005	0.025	0.045	0.064	0.084
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.04
		My _{máx}	0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.01	-0.01
		Mz _{mín}	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N9/N12	Madera	N _{mín}	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287	-1.287
		N _{máx}	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617
		Vy _{mín}	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy _{máx}	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz _{mín}	-0.087	-0.068	-0.048	-0.029	-0.010	0.005	0.020	0.034	0.048
		Vz _{máx}	-0.059	-0.044	-0.030	-0.015	-0.001	0.018	0.037	0.057	0.076
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.04	-0.01	0.01	0.02	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.02	0.01	0.02	0.04	0.05	0.05	0.04	0.02	0.01
		Mz _{mín}	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
		Mz _{máx}	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

Envolventes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N9/N8	Madera	N _{mín}	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265	-3.265
		N _{máx}	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131	-0.131
		Vy _{mín}	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
		Vy _{máx}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz _{mín}	-0.076	-0.056	-0.037	-0.017	0.001	0.016	0.030	0.045	0.059
		Vz _{máx}	-0.045	-0.031	-0.017	-0.002	0.013	0.032	0.052	0.071	0.091
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.03	-0.01	0.01	0.02	0.02	0.01	0.01	-0.01	-0.05
		My _{máx}	0.01	0.02	0.04	0.04	0.04	0.04	0.02	0.00	-0.02
		Mz _{mín}	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.394 m	0.788 m	1.182 m	1.576 m	1.970 m	2.364 m	2.758 m	3.152 m
N5/N8	Madera	N _{mín}	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665
		N _{máx}	5.984	5.984	5.984	5.984	5.984	5.984	5.984	5.984	5.984
		Vy _{mín}	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vy _{máx}	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz _{mín}	-0.094	-0.074	-0.055	-0.036	-0.016	-0.001	0.013	0.028	0.042
		Vz _{máx}	-0.059	-0.045	-0.031	-0.016	-0.002	0.017	0.036	0.056	0.075
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.06	-0.02	0.00	0.01	0.02	0.02	0.01	-0.01	-0.03
		My _{máx}	-0.02	0.00	0.02	0.03	0.04	0.04	0.03	0.02	0.01
		Mz _{mín}	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N27/N28	Madera	N _{mín}	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		N _{máx}	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy _{mín}	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vy _{máx}	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
		Vz _{mín}	-1.527	-1.092	-0.875	-0.440	-0.005	0.039	0.082	0.104	0.147
		Vz _{máx}	-0.156	-0.112	-0.091	-0.047	-0.004	0.431	0.866	1.083	1.518
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.16	-0.09	-0.07	-0.04	-0.03	-0.04	-0.06	-0.08	-0.14
		My _{máx}	0.03	0.51	0.70	0.95	1.04	0.95	0.70	0.52	0.05
		Mz _{mín}	-0.02	-0.01	-0.01	0.00	0.00	-0.07	-0.13	-0.16	-0.23
		Mz _{máx}	0.23	0.16	0.13	0.07	0.00	0.00	0.01	0.01	0.02

Envoltentes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
N5/N6	Madera	N _{mín}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		N _{máx}	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vy _{mín}	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155

Envoltantes de los esfuerzos en barras											
Barra	Tipo de combinación	Esfuerzo	Posiciones en la barra								
			0.000 m	0.386 m	0.579 m	0.964 m	1.350 m	1.736 m	2.121 m	2.314 m	2.700 m
		Vy _{máx}	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz _{mín}	-1.527	-1.093	-0.875	-0.440	-0.006	0.038	0.081	0.103	0.147
		Vz _{máx}	-0.156	-0.113	-0.091	-0.048	-0.004	0.431	0.866	1.083	1.518
		Mt _{mín}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mt _{máx}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My _{mín}	-0.02	0.06	0.08	0.11	0.12	0.11	0.09	0.07	-0.01
		My _{máx}	0.16	0.58	0.77	1.03	1.11	1.03	0.78	0.59	0.17
		Mz _{mín}	-0.21	-0.15	-0.12	-0.06	0.00	0.00	0.00	0.00	0.00
		Mz _{máx}	0.00	0.00	0.00	0.00	0.00	0.06	0.12	0.15	0.21

2.3.2.2.- Resistencia

Referencias:

N: Esfuerzo axil (kN)

Vy: Esfuerzo cortante según el eje local Y de la barra. (kN)

Vz: Esfuerzo cortante según el eje local Z de la barra. (kN)

Mt: Momento torsor (kN·m)

My: Momento flector en el plano 'XZ' (giro de la sección respecto al eje local 'Y' de la barra). (kN·m)

Mz: Momento flector en el plano 'XY' (giro de la sección respecto al eje local 'Z' de la barra). (kN·m)

Los esfuerzos indicados son los correspondientes a la combinación pésima, es decir, aquella que demanda la máxima resistencia de la sección.

Origen de los esfuerzos pésimos:

- G: Sólo gravitatorias
- GV: Gravitatorias + viento
- GS: Gravitatorias + sismo
- GVS: Gravitatorias + viento + sismo

☑: Aprovechamiento de la resistencia. La barra cumple con las condiciones de resistencia de la norma si se cumple que $\eta \geq 100\%$.

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N3/N5	59.27	0.000	0.000	-0.046	-102.656	0.00	0.00	0.00	G	Cumple
N5/N7	53.05	0.000	0.181	0.254	-91.800	0.02	102.27	0.06	G	Cumple
N7/N9	59.51	1.627	0.062	-0.526	-58.742	0.03	347.22	0.50	G	Cumple
N9/N11	73.51	1.627	0.215	0.670	-42.035	0.02	428.92	-0.59	G	Cumple
N11/N13	82.84	1.627	0.201	-0.774	-25.263	0.01	483.38	0.66	G	Cumple
N13/N15	87.50	1.627	0.297	0.833	-8.557	0.01	510.61	-0.69	G	Cumple
N15/N17	87.78	1.017	0.339	-0.855	2.058	0.00	513.74	0.17	G	Cumple
N17/N19	87.51	0.000	0.380	0.833	8.570	-0.01	510.60	0.70	G	Cumple
N19/N21	82.84	0.000	0.477	-0.774	25.276	-0.01	483.35	-0.66	G	Cumple
N21/N23	73.52	0.000	0.463	0.670	41.983	-0.02	428.92	0.60	G	Cumple
N23/N25	59.55	0.000	0.615	-0.526	58.690	-0.03	347.30	-0.49	G	Cumple
N25/N27	53.02	1.627	0.498	0.255	91.749	-0.02	102.52	-0.06	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	ϕ (%)	Posición (m)	Esfuerzos p _{ésimos}						Origen	Estado
			N (kN)	V _y (kN)	V _z (kN)	M _t (kN·m)	M _y (kN·m)	M _z (kN·m)		
N27/N1	59.26	1.053	0.680	-0.046	102.634	0.00	0.00	0.00	G	Cumple
N4/N6	59.23	0.000	0.000	-0.045	-102.580	0.00	0.00	0.00	G	Cumple
N6/N8	52.98	0.000	-0.170	0.253	-91.735	0.00	102.19	0.05	G	Cumple
N8/N10	59.46	1.627	-0.073	-0.525	-58.678	-0.01	346.93	0.50	G	Cumple
N10/N12	73.44	1.627	-0.206	0.670	-41.969	-0.01	428.52	-0.59	G	Cumple
N12/N14	82.76	1.627	-0.207	-0.774	-25.260	0.00	482.93	0.66	G	Cumple
N14/N16	87.42	1.627	-0.295	0.834	-8.550	0.00	510.15	-0.69	G	Cumple
N16/N18	87.70	1.017	-0.339	-0.856	2.029	0.00	513.28	0.18	G	Cumple
N18/N20	87.43	0.000	-0.384	0.834	8.520	0.00	510.17	0.70	G	Cumple
N20/N22	82.78	0.000	-0.471	-0.774	25.229	0.00	483.00	-0.66	G	Cumple
N22/N24	73.47	0.000	-0.472	0.670	41.938	0.01	428.64	0.60	G	Cumple
N24/N26	59.50	0.000	-0.606	-0.526	58.647	0.01	347.10	-0.49	G	Cumple
N26/N28	52.96	1.627	-0.507	0.254	91.703	0.01	102.47	-0.05	G	Cumple
N28/N2	59.23	1.053	-0.680	-0.045	102.579	0.00	0.00	0.00	G	Cumple
N7/N8	7.01	0.000	0.000	0.000	-1.522	0.00	0.00	0.00	G	Cumple
N9/N10	7.01	0.000	0.000	0.000	-1.522	0.00	0.00	0.00	G	Cumple
N11/N12	7.02	2.700	0.002	0.000	1.524	0.00	-0.01	0.00	G	Cumple
N13/N14	7.02	2.700	-0.002	0.000	1.524	0.00	-0.01	0.00	G	Cumple
N15/N16	7.02	2.700	0.002	0.000	1.524	0.00	-0.02	0.00	G	Cumple
N17/N18	7.02	2.700	-0.002	0.000	1.524	0.00	-0.02	0.00	G	Cumple
N19/N20	7.02	2.700	0.002	0.000	1.523	0.00	-0.01	0.00	G	Cumple
N21/N22	7.01	0.000	0.000	0.000	-1.522	0.00	-0.01	0.00	G	Cumple
N23/N24	7.01	0.000	0.000	0.000	-1.522	0.00	0.00	0.00	G	Cumple
N25/N26	7.01	0.000	0.000	0.000	-1.522	0.00	0.00	0.00	G	Cumple
N7/N6	42.67	3.152	-5.967	-0.031	0.080	0.00	-0.04	0.06	GV	Cumple
N7/N10	6.67	1.970	3.285	-0.010	0.010	0.00	0.04	0.00	GV	Cumple
N11/N10	12.74	3.152	-1.567	-0.006	0.079	0.00	-0.04	0.01	GV	Cumple
N11/N14	5.36	1.773	1.817	-0.005	0.005	0.00	0.05	0.00	GV	Cumple
N15/N14	4.96	1.576	1.454	0.004	0.002	0.00	0.05	0.00	G	Cumple
N15/N18	4.72	1.576	1.252	-0.004	0.000	0.00	0.05	0.00	G	Cumple
N19/N18	5.95	1.576	2.207	0.006	-0.002	0.00	0.05	0.00	GV	Cumple
N19/N22	14.18	3.152	-1.797	0.006	0.079	0.00	-0.04	-0.01	GV	Cumple
N23/N22	7.42	1.970	3.752	0.012	0.012	0.00	0.04	0.00	GV	Cumple
N23/N26	24.98	3.152	-3.381	0.010	0.080	0.00	-0.04	-0.02	GV	Cumple
N27/N26	12.73	1.576	7.925	0.038	-0.012	0.00	0.03	0.02	GV	Cumple
N25/N28	56.34	3.152	-7.908	0.038	0.090	0.00	-0.05	-0.07	GV	Cumple
N25/N24	8.54	1.773	-0.901	-0.002	-0.001	0.00	0.04	0.00	G	Cumple
N21/N24	26.79	1.182	-3.735	0.012	-0.012	0.00	0.04	0.00	GV	Cumple
N21/N20	10.57	1.773	-1.170	-0.003	0.005	0.00	0.05	0.00	G	Cumple
N17/N20	18.11	1.576	-2.376	0.008	0.002	0.00	0.04	0.00	GV	Cumple
N17/N16	11.22	1.576	-1.253	-0.004	0.000	0.00	0.05	0.00	G	Cumple
N13/N16	12.53	1.576	-1.459	0.004	-0.002	0.00	0.05	0.00	G	Cumple
N13/N12	15.53	1.379	-1.991	-0.007	-0.005	0.00	0.04	0.00	GV	Cumple
N9/N12	11.22	1.773	-1.287	0.003	0.002	0.00	0.05	0.00	G	Cumple
N9/N8	23.88	3.152	-3.265	-0.010	0.088	0.00	-0.04	0.02	GV	Cumple
N5/N8	9.90	1.379	5.767	-0.031	-0.014	0.00	0.03	-0.02	GV	Cumple
N27/N28	7.03	0.000	-0.006	-0.009	-1.527	0.00	0.00	-0.01	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	σ (%)	Posición (m)	Esfuerzos p�simos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN�m)	My (kN�m)	Mz (kN�m)		
N5/N6	7.04	0.000	0.007	-0.009	-1.527	0.00	0.00	-0.01	G	Cumple

Comprobaci�n de resistencia en situaci�n de incendio											
Barra	σ (%)	Posici�n (m)	Esfuerzos p�simos						Origen	R. req. ⁽¹⁾	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN�m)	My (kN�m)	Mz (kN�m)			
N3/N5	21.86	0.000	0.000	-0.026	-47.930	0.00	0.00	0.00	G	R30	Cumple
N5/N7	19.56	0.000	0.097	0.134	-42.845	0.01	47.79	0.03	G		Cumple
N7/N9	23.28	1.627	0.037	-0.272	-27.504	0.01	162.25	0.25	G		Cumple
N9/N11	28.75	1.627	0.116	0.340	-19.701	0.01	200.44	-0.30	G		Cumple
N11/N13	32.40	1.627	0.111	-0.388	-11.850	0.01	225.90	0.33	G		Cumple
N13/N15	34.23	1.627	0.162	0.416	-4.049	0.00	238.62	-0.35	G		Cumple
N15/N17	34.30	0.407	0.186	-0.427	-1.888	0.00	239.77	-0.17	G		Cumple
N17/N19	34.23	0.000	0.208	0.416	4.067	0.00	238.60	0.35	G		Cumple
N19/N21	32.40	0.000	0.260	-0.389	11.869	-0.01	225.85	-0.33	G		Cumple
N21/N23	28.76	0.000	0.255	0.340	19.671	-0.01	200.41	0.30	G		Cumple
N23/N25	23.29	0.000	0.334	-0.272	27.474	-0.01	162.27	-0.25	G		Cumple
N25/N27	19.54	1.627	0.275	0.135	42.815	-0.01	47.90	-0.03	G		Cumple
N27/N1	21.85	1.053	0.372	-0.025	47.914	0.00	0.00	0.00	G		Cumple
N4/N6	21.83	0.000	0.000	-0.024	-47.874	0.00	0.00	0.00	G		Cumple
N6/N8	19.52	0.000	-0.089	0.133	-42.796	0.00	47.73	0.03	G		Cumple
N8/N10	23.25	1.627	-0.044	-0.272	-27.457	0.00	162.04	0.25	G		Cumple
N10/N12	28.71	1.627	-0.109	0.340	-19.653	0.00	200.15	-0.30	G		Cumple
N12/N14	32.35	1.627	-0.116	-0.389	-11.848	0.00	225.56	0.33	G		Cumple
N14/N16	34.18	1.627	-0.160	0.417	-4.043	0.00	238.27	-0.35	G		Cumple
N16/N18	34.25	1.220	-0.185	-0.427	1.877	0.00	239.43	0.17	G		Cumple
N18/N20	34.18	0.000	-0.211	0.417	4.029	0.00	238.28	0.35	G		Cumple
N20/N22	32.36	0.000	-0.255	-0.389	11.834	0.00	225.60	-0.33	G		Cumple
N22/N24	28.72	0.000	-0.262	0.340	19.638	0.00	200.21	0.30	G		Cumple
N24/N26	23.27	0.000	-0.327	-0.272	27.442	0.00	162.12	-0.25	G		Cumple
N26/N28	19.52	1.627	-0.281	0.134	42.782	0.00	47.86	-0.03	G		Cumple
N28/N2	21.83	1.053	-0.372	-0.024	47.873	0.00	0.00	0.00	G		Cumple
N7/N8	1.63	1.350	0.000	0.000	0.000	0.00	0.14	0.00	G		Cumple
N9/N10	1.63	1.350	0.000	0.000	0.000	0.00	0.14	0.00	G		Cumple
N11/N12	1.62	1.350	0.001	0.000	0.001	0.00	0.14	0.00	G		Cumple
N13/N14	1.61	1.350	-0.001	0.000	0.001	0.00	0.13	0.00	G		Cumple
N15/N16	1.60	1.350	0.002	0.000	0.002	0.00	0.13	0.00	G		Cumple
N17/N18	1.60	1.350	-0.001	0.000	0.001	0.00	0.13	0.00	G		Cumple
N19/N20	1.61	1.350	0.001	0.000	0.001	0.00	0.13	0.00	G		Cumple
N21/N22	1.62	1.350	0.000	0.000	0.000	0.00	0.14	0.00	G		Cumple
N23/N24	1.63	1.350	0.000	0.000	0.000	0.00	0.14	0.00	G		Cumple
N25/N26	1.63	1.350	0.000	0.000	0.000	0.00	0.14	0.00	G		Cumple
N7/N6	5.61	3.152	0.179	0.001	0.064	0.00	-0.04	0.00	G	R15	Cumple
N7/N10	4.97	0.000	0.296	-0.001	-0.063	0.00	-0.03	0.00	G		Cumple
N11/N10	4.47	3.152	0.421	0.002	0.062	0.00	-0.03	0.00	G		Cumple
N11/N14	4.64	1.576	0.430	-0.002	-0.002	0.00	0.03	0.00	G		Cumple

Comprobación de resistencia en situación de incendio											
Barra	σ (%)	Posición (m)	Esfuerzos p _s imos						Origen	R. req. ⁽¹⁾	Estado
			N (kN)	V _y (kN)	V _z (kN)	M _t (kN·m)	M _y (kN·m)	M _z (kN·m)			
N15/N14	4.90	1.576	0.516	0.002	0.001	0.00	0.03	0.00	G		Cumple
N15/N18	4.86	1.576	0.470	-0.002	0.000	0.00	0.03	0.00	G		Cumple
N19/N18	4.91	1.576	0.520	0.002	-0.001	0.00	0.03	0.00	G		Cumple
N19/N22	4.62	1.576	0.421	-0.002	0.002	0.00	0.03	0.00	G		Cumple
N23/N22	4.47	1.773	0.434	0.002	0.003	0.00	0.02	0.00	G		Cumple
N23/N26	4.97	3.152	0.282	-0.001	0.063	0.00	-0.03	0.00	G		Cumple
N27/N26	5.61	0.000	0.193	0.001	-0.064	0.00	-0.04	0.00	G		Cumple
N25/N28	11.99	3.152	-0.180	0.001	0.064	0.00	-0.04	0.00	G		Cumple
N25/N24	15.43	0.000	-0.296	-0.001	-0.063	0.00	-0.03	0.00	G		Cumple
N21/N24	19.37	3.152	-0.421	0.002	0.062	0.00	-0.03	0.00	G		Cumple
N21/N20	19.16	0.000	-0.431	-0.002	-0.060	0.00	-0.02	0.00	G		Cumple
N17/N20	22.17	1.576	-0.515	0.002	0.001	0.00	0.03	0.00	G		Cumple
N17/N16	20.69	1.576	-0.472	-0.002	0.000	0.00	0.03	0.00	G		Cumple
N13/N16	22.34	1.576	-0.519	0.002	-0.001	0.00	0.03	0.00	G		Cumple
N13/N12	18.85	3.152	-0.422	-0.002	0.060	0.00	-0.02	0.00	G		Cumple
N9/N12	19.81	0.000	-0.434	0.002	-0.062	0.00	-0.03	0.00	G		Cumple
N9/N8	14.92	3.152	-0.281	-0.001	0.063	0.00	-0.03	0.00	G	Cumple	
N5/N8	12.43	0.000	-0.193	0.001	-0.064	0.00	-0.04	0.00	G	Cumple	
N27/N28	1.58	1.350	-0.005	-0.002	-0.004	0.00	0.13	0.00	G	R30	Cumple
N5/N6	1.58	1.350	0.005	-0.002	-0.004	0.00	0.13	0.00	G		Cumple
Notas: ⁽¹⁾ Resistencia requerida (periodo de tiempo, expresado en minutos, durante el cual un elemento estructural debe mantener su capacidad portante).											

2.3.2.3.- Flechas

Referencias:

Pos.: Valor de la coordenada sobre el eje 'X' local del grupo de flecha en el punto donde se produce el valor p_simo de la flecha.
 L.: Distancia entre dos puntos de corte consecutivos de la deformada con la recta que une los nudos extremos del grupo de flecha.

Flechas								
Grupo	Flecha máxima absoluta xy		Flecha máxima absoluta xz		Flecha activa absoluta xy		Flecha activa absoluta xz	
	Flecha máxima relativa xy		Flecha máxima relativa xz		Flecha activa relativa xy		Flecha activa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N3/N1	9.185	0.92	9.998	78.67	10.812	0.94	9.998	64.24
	9.185	L/(>1000)	9.998	L/254.2	9.795	L/(>1000)	9.998	L/311.3
N4/N2	9.185	0.92	9.998	78.61	10.812	0.94	9.998	64.24
	9.185	L/(>1000)	9.998	L/254.4	9.795	L/(>1000)	9.998	L/311.3
N7/N8	0.579	0.01	1.350	0.43	2.121	0.01	1.350	0.37
	0.579	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N9/N10	2.121	0.01	1.350	0.41	0.579	0.01	1.350	0.35
	2.121	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N11/N12	0.579	0.01	1.350	0.40	2.121	0.01	1.350	0.34
	0.579	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N13/N14	2.121	0.00	1.350	0.39	0.579	0.00	1.350	0.34
	2.121	L/(>1000)	1.350	L/(>1000)	2.121	L/(>1000)	1.350	L/(>1000)
N15/N16	0.579	0.00	1.350	0.39	2.121	0.00	1.350	0.34
	0.579	L/(>1000)	1.350	L/(>1000)	2.121	L/(>1000)	1.350	L/(>1000)

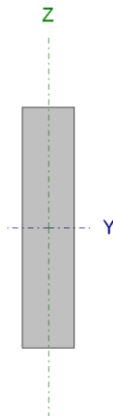
Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha activa absoluta xy Flecha activa relativa xy		Flecha activa absoluta xz Flecha activa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N17/N18	2.121	0.00	1.350	0.39	0.579	0.00	1.350	0.34
	2.121	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N19/N20	0.579	0.01	1.350	0.39	2.121	0.01	1.350	0.34
	0.579	L/(>1000)	1.350	L/(>1000)	2.121	L/(>1000)	1.350	L/(>1000)
N21/N22	2.121	0.01	1.350	0.39	0.579	0.01	1.350	0.35
	2.121	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N23/N24	0.579	0.01	1.350	0.40	2.121	0.01	1.350	0.35
	0.579	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N25/N26	2.121	0.02	1.350	0.40	0.579	0.02	1.350	0.37
	2.121	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N7/N6	2.167	0.11	1.379	0.80	2.167	0.11	1.379	0.44
	2.167	L/(>1000)	1.379	L/(>1000)	2.167	L/(>1000)	1.379	L/(>1000)
N7/N10	0.788	0.01	1.773	0.91	0.788	0.01	1.773	0.52
	0.788	L/(>1000)	1.773	L/(>1000)	0.591	L/(>1000)	1.773	L/(>1000)
N11/N10	2.364	0.01	1.576	0.99	2.364	0.02	1.379	0.58
	0.788	L/(>1000)	1.576	L/(>1000)	0.788	L/(>1000)	1.379	L/(>1000)
N11/N14	0.788	0.01	1.576	1.07	0.788	0.01	1.576	0.63
	0.788	L/(>1000)	1.576	L/(>1000)	0.788	L/(>1000)	1.576	L/(>1000)
N15/N14	0.788	0.01	1.576	1.11	2.364	0.01	1.576	0.67
	0.788	L/(>1000)	1.576	L/(>1000)	0.788	L/(>1000)	1.576	L/(>1000)
N15/N18	0.788	0.01	1.576	1.12	2.364	0.01	1.576	0.68
	0.788	L/(>1000)	1.576	L/(>1000)	0.985	L/(>1000)	1.576	L/(>1000)
N19/N18	0.788	0.02	1.576	1.11	0.788	0.02	1.576	0.67
	0.788	L/(>1000)	1.576	L/(>1000)	0.788	L/(>1000)	1.576	L/(>1000)
N19/N22	2.364	0.01	1.576	1.06	2.364	0.02	1.576	0.64
	0.788	L/(>1000)	1.576	L/(>1000)	0.788	L/(>1000)	1.576	L/(>1000)
N23/N22	0.788	0.02	1.576	0.99	0.788	0.02	1.773	0.59
	0.788	L/(>1000)	1.576	L/(>1000)	0.788	L/(>1000)	1.773	L/(>1000)
N23/N26	2.364	0.02	1.379	0.88	2.364	0.02	1.379	0.52
	2.364	L/(>1000)	1.379	L/(>1000)	2.364	L/(>1000)	1.379	L/(>1000)
N27/N26	0.985	0.11	1.773	0.76	0.985	0.12	1.773	0.45
	0.985	L/(>1000)	1.773	L/(>1000)	0.985	L/(>1000)	1.773	L/(>1000)
N25/N28	2.167	0.11	1.379	0.76	2.167	0.12	1.379	0.45
	2.167	L/(>1000)	1.379	L/(>1000)	2.167	L/(>1000)	1.379	L/(>1000)
N25/N24	0.788	0.02	1.773	0.89	0.788	0.02	1.773	0.52
	0.788	L/(>1000)	1.773	L/(>1000)	0.788	L/(>1000)	1.773	L/(>1000)
N21/N24	2.364	0.02	1.576	0.98	2.364	0.02	1.379	0.59
	2.364	L/(>1000)	1.576	L/(>1000)	2.364	L/(>1000)	1.379	L/(>1000)
N21/N20	0.788	0.01	1.576	1.06	0.788	0.02	1.576	0.64
	2.364	L/(>1000)	1.576	L/(>1000)	2.364	L/(>1000)	1.576	L/(>1000)
N17/N20	2.364	0.02	1.576	1.10	2.364	0.02	1.576	0.67
	2.364	L/(>1000)	1.576	L/(>1000)	2.364	L/(>1000)	1.576	L/(>1000)
N17/N16	2.364	0.01	1.576	1.12	0.788	0.01	1.576	0.68
	2.364	L/(>1000)	1.576	L/(>1000)	2.167	L/(>1000)	1.576	L/(>1000)
N13/N16	2.364	0.01	1.576	1.11	0.788	0.01	1.576	0.67
	2.364	L/(>1000)	1.576	L/(>1000)	2.364	L/(>1000)	1.576	L/(>1000)
N13/N12	2.364	0.01	1.576	1.06	2.364	0.01	1.576	0.63

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha activa absoluta xy Flecha activa relativa xy		Flecha activa absoluta xz Flecha activa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	2.364	L/(>1000)	1.576	L/(>1000)	2.364	L/(>1000)	1.576	L/(>1000)
N9/N12	0.788	0.01	1.576	1.00	0.788	0.02	1.773	0.58
	2.364	L/(>1000)	1.576	L/(>1000)	2.364	L/(>1000)	1.773	L/(>1000)
N9/N8	2.364	0.01	1.379	0.90	2.364	0.01	1.379	0.52
	2.364	L/(>1000)	1.379	L/(>1000)	2.561	L/(>1000)	1.379	L/(>1000)
N5/N8	0.985	0.11	1.773	0.80	0.985	0.11	1.773	0.44
	0.985	L/(>1000)	1.773	L/(>1000)	0.985	L/(>1000)	1.773	L/(>1000)
N27/N28	0.579	0.07	1.350	0.40	2.121	0.08	1.350	0.39
	0.579	L/(>1000)	1.350	L/(>1000)	0.579	L/(>1000)	1.350	L/(>1000)
N5/N6	2.121	0.07	1.350	0.45	2.121	0.07	1.350	0.38
	2.121	L/(>1000)	1.350	L/(>1000)	2.121	L/(>1000)	1.350	L/(>1000)

2.3.2.4.- Comprobaciones E.L.U. (Completo)

Nota: Se muestra el listado completo de comprobaciones realizadas para las 10 barras con mayor coeficiente de aprovechamiento.

Barra N15/N17

Perfil: V-1020x220 Material: Madera (GL24h)							
	Nudos		Longitud (m)	Características mecánicas			
	Inicial	Final		Área (cm ²)	I _y ⁽¹⁾ (cm ⁴)	I _z ⁽¹⁾ (cm ⁴)	I _t ⁽²⁾ (cm ⁴)
	N15	N17	1.627	2244.00	1945548.00	90508.00	311413.34
	Notas: ⁽¹⁾ Inercia respecto al eje indicado ⁽²⁾ Momento de inercia a torsión uniforme						
		Pandeo		Pandeo lateral			
		Plano XY	Plano XZ	Ala sup.	Ala inf.		
	⌈	1.00	1.00	0.00	0.00		
	L _K	1.627	1.627	0.000	0.000		
	C ₁	-		1.000			
	Notación: ⌈: Coeficiente de pandeo L _K : Longitud de pandeo (m) C ₁ : Factor de modificación para el momento crítico						
Situación de incendio							
Resistencia requerida: R30							

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

□ < 0.001 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
1.35·PP+1.35·CM+1.05·Q+1.5·N.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$\sigma_{t,0,d}$: 0.00 MPa

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$N_{t,0,d}$: 0.73 kN

A : Área de la sección transversal

A : 2244.00 cm²

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$f_{t,0,d}$: 11.88 MPa

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

k_{mod} : 0.90

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$f_{t,0,k}$: 16.50 MPa

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

σ : 0.003 ✓

Resistencia a pandeo por flexión en el eje z

σ : 0.003 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$\sigma_{c,0,d}$: 0.05 MPa

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$N_{c,0,d}$: 12.22 kN

A : Área de la sección transversal

A : 2244.00 cm²

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$f_{c,0,d}$: 17.28 MPa

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

k_{mod} : 0.90

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$k_{c,z}$: 0.99

Donde:

k_z : 0.59

Donde:

φ_c : Factor asociado a la rectitud de las piezas

φ_c : 0.10

$\varphi_{rel,z}$: Esbeltez relativa, dada por:

$\varphi_{rel,z}$: 0.41

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

φ_z : Esbeltez mecánica, dada por:

φ_z : 25.62

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$L_{k,z}$: 1627.00 mm

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\varphi_{rel,y}$: Esbeltez relativa, dada por:

$\varphi_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

φ_y : Esbeltez mecánica, dada por:

φ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.877



El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.814 m del nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$	13.47	MPa
$\sigma_{m,y,d}^-$	0.00	MPa

Donde:

M_d : Momento flector de cálculo

W_{el} : Módulo resistente elástico de la sección transversal

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$M_{y,d}^+$	513.95	kN·m
$M_{y,d}^-$	0.00	kN·m
$W_{el,y}$	38148.00	cm ³
$f_{m,y,d}^+$	15.36	MPa
$f_{m,y,d}^-$	11.52	MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

Donde:

Clase de duración de la carga

Clase de servicio

$f_{m,k}$: Resistencia característica a flexión

k_h : Factor de altura, dado por:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:


γ_M : Coeficiente parcial para las propiedades del material

k_{mod}^+	0.80
k_{mod}^-	0.60
Clase ⁺	Duración media
Clase ⁻	Permanente
Clase	2
$f_{m,k}$	24.00 MPa
k_h	1.00

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.006 

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$	0.00	MPa
$\sigma_{m,z,d}^-$	0.12	MPa

Donde:

M_d : Momento flector de cálculo

W_{el} : Módulo resistente elástico de la sección transversal

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$M_{z,d}^+$	0.00	kN·m
$M_{z,d}^-$	0.98	kN·m
$W_{el,z}$	8228.00	cm ³
$f_{m,z,d}^+$	12.67	MPa
$f_{m,z,d}^-$	19.01	MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.60

k_{mod}^- : 0.90

Donde:

Clase de duración de la carga

Clase⁺ : Permanente

Clase⁻ : Corta duración

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

τ : 0.007 ✓

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

Donde:

τ_d : Tensión de cálculo a cortante, dada por:

τ_d : 0.01 MPa

Donde:

V_d : Cortante de cálculo

V_d : 1.33 kN

A : Área de la sección transversal

A : 2244.00 cm²

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

k_{cr} : 0.67

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$f_{v,d}$: 1.94 MPa

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

k_{mod} : 0.90

$f_{v,k}$: Resistencia característica a cortante

$f_{v,k}$: 2.70 MPa

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : 0.047 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{d} : 0.08 \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{d} : 8.21 \text{ kN}$$

A : Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : 0.67$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.73 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

$\tau_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : 0.01 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la sección transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la sección transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia característica a cortante
 γ_M : Coeficiente parcial para las propiedades del material

$f_{v,k}$: 2.70 MPa
 γ_M : 1.25

Resistencia a flexión esviada - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexión esviada

σ : 0.878 ✓

σ : 0.615 ✓

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.017 m del nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}$: 13.47 MPa
 $\sigma_{m,z,d}$: 0.02 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}$: 513.74 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$M_{z,d}$: 0.17 kN·m

$W_{el,y}$: 38148.00 cm³

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}$: 15.36 MPa

$f_{m,z,d}$: 16.90 MPa

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

k_{mod} : 0.80

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

$k_{h,y}$: 1.00

$k_{h,z}$: 1.10

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_m : 0.70

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

σ : 0.878 ✓

$$\sigma : 0.615 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.017 m del nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.00 \quad \text{MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.34 \quad \text{kN}$$

A : Área de la sección transversal

$$A : 2244.00 \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : 13.47 \quad \text{MPa}$$

$$\sigma_{m,z,d} : 0.02 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 513.74 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : 0.17 \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : 38148.00 \quad \text{cm}^3$$

$$W_{el,z} : 8228.00 \quad \text{cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 10.56 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : 15.36 \quad \text{MPa}$$

$$f_{m,z,d} : 16.90 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : 1.00$$

$$k_{h,z} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

η_M : Coeficiente parcial para las propiedades del material

η_M : 1.25

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_m : 0.70

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.610 m del nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

η : 0.849 ✓

η : 0.595 ✓

Resistencia a pandeo para flexión y compresión combinados

η : 0.850 ✓

η : 0.597 ✓

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$\sigma_{c,0,d}$: 0.03 MPa

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$N_{c,0,d}$: 6.83 kN

A : Área de la sección transversal

A : 2244.00 cm²

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}$: 14.64 MPa

$\sigma_{m,z,d}$: 0.04 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}$: 558.31 kN·m

$M_{z,d}$: 0.36 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$W_{el,z}$: 8228.00 cm³

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$f_{c,0,d}$: 17.28 MPa

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

γ_M : Coeficiente parcial para las propiedades del material

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$\begin{aligned} k_{mod} &: 0.90 \\ f_{c,0,k} &: 24.00 \text{ MPa} \\ \gamma_M &: 1.25 \\ f_{m,y,d} &: 17.28 \text{ MPa} \\ f_{m,z,d} &: 19.01 \text{ MPa} \end{aligned}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{m,k}$: Resistencia característica a flexión

k_h : Factor de altura, dado por:

$$\begin{aligned} k_{mod} &: 0.90 \\ f_{m,k} &: 24.00 \text{ MPa} \\ k_{h,y} &: 1.00 \\ k_{h,z} &: 1.10 \end{aligned}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

γ_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$\begin{aligned} h &: 220.00 \text{ mm} \\ \gamma_M &: 1.25 \\ k_m &: 0.70 \\ k_{c,y} &: 1.00 \\ k_{c,z} &: 0.99 \end{aligned}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\tau : 0.007 \quad \checkmark$$

$$\tau : 0.044 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Donde:

τ_d : Tensión de cálculo a cortante, dada por:

$$\begin{aligned} \tau_{y,d} &: 0.01 \text{ MPa} \\ \tau_{z,d} &: 0.09 \text{ MPa} \end{aligned}$$

Donde:

V_{d} : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \frac{1.27}{\quad} \text{ kN}$$

$$V_{z,d} : \frac{8.61}{\quad} \text{ kN}$$

$$A : \frac{2244.00}{\quad} \text{ cm}^2$$

$$k_{cr} : \frac{0.67}{\quad}$$

$$\sigma_{tor,y,d} : \frac{0.00}{\quad} \text{ MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{\quad} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

W_{tor} : Modulo resistente a torsión

k_{shape} : Factor cuyo valor depende del tipo de sección

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \frac{0.01}{\quad} \text{ kN}\cdot\text{m}$$

$$W_{tor,y} : \frac{67542.77}{\quad} \text{ cm}^3$$

$$W_{tor,z} : \frac{14568.05}{\quad} \text{ cm}^3$$

$$k_{shape} : \frac{1.70}{\quad}$$

$$f_{v,d} : \frac{1.94}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \frac{0.90}{\quad}$$

$$f_{v,k} : \frac{2.70}{\quad} \text{ MPa}$$

$$\gamma_M : \frac{1.25}{\quad}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < \frac{0.001}{\quad} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d,fi} : \frac{0.00}{\quad} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

A_{fi} : Área de la sección transversal

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$N_{t,0,d} : \frac{0.19}{\quad} \text{ kN}$$

$$A_{fi} : \frac{1580.96}{\quad} \text{ cm}^2$$

$$f_{t,0,d,fi} : \frac{18.98}{\quad} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{h,fi}$: Factor de altura, dado por:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$$k_{mod,fi} : \frac{1.00}{\quad}$$

$$k_{h,fi} : \frac{1.00}{\quad}$$

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$f_{t,0,k} : \frac{16.50}{\quad} \text{ MPa}$$

$$\gamma_{M,fi} : \frac{1.00}{\quad}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de compresión.

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.343 ✓

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.814 m del nudo N15, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$: 9.45 MPa
 $\sigma_{m,y,d,fi}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 240.15 kN·m

$M_{y,d}^-$: 0.00 kN·m

$W_{el,y}$: Módulo resistente elástico de la sección transversal

$W_{el,y,fi}$: 25400.76 cm³

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d,fi}$: 27.60 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,fi}$: 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : 0.003 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\begin{aligned} \sigma_{m,z,d,fi}^+ &: 0.08 \text{ MPa} \\ \sigma_{m,z,d,fi}^- &: 0.00 \text{ MPa} \end{aligned}$$

Donde:

M_d : Momento flector de cálculo

$$M_{z,d}^+ : 0.35 \text{ kN}\cdot\text{m}$$

$$M_{z,d}^- : 0.00 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \text{Duración media}$$

$$\text{Clase}^- : \text{Permanente}$$

Clase de servicio

$$\text{Clase} : 2$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : 1.10$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$$h_{fi} : 164.00 \text{ mm}$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : 0.002 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d,fi} : 0.01 \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

A_{fi} : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$V_{d,fi} : \frac{0.43}{1580.96} \text{ kN}$$

$$A_{fi} : \frac{1580.96}{0.67} \text{ cm}^2$$

$$k_{cr} : \frac{0.67}{3.11} \text{ MPa}$$

$$f_{v,d,fi} : \frac{3.11}{1.15} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{v,k}$: Resistencia característica a cortante

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{mod,fi} : \frac{1.00}{2.70} \text{ MPa}$$

$$f_{v,k} : \frac{2.70}{1.00} \text{ MPa}$$

$$\alpha_{M,fi} : \frac{1.00}{1.15}$$

$$k_{fi} : \frac{1.15}{1.15}$$

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : \frac{0.017}{1.15} \text{ ✓}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d,fi} : \frac{0.05}{1.15} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

A_{fi} : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$V_{z,d,fi} : \frac{3.80}{1580.96} \text{ kN}$$

$$A_{fi} : \frac{1580.96}{0.67} \text{ cm}^2$$

$$k_{cr} : \frac{0.67}{3.11} \text{ MPa}$$

$$f_{v,d,fi} : \frac{3.11}{1.15} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{v,k}$: Resistencia característica a cortante

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{mod,fi} : \frac{1.00}{2.70} \text{ MPa}$$

$$f_{v,k} : \frac{2.70}{1.00} \text{ MPa}$$

$$\alpha_{M,fi} : \frac{1.00}{1.15}$$

$$k_{fi} : \frac{1.15}{1.15}$$

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay momento torsor.

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : \underline{0.343} \quad \checkmark$$

$$\sigma : \underline{0.241} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.407 m del nudo N15, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : \underline{9.44} \quad \text{MPa}$$

$$\sigma_{m,z,d,fi} : \underline{0.04} \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{239.77} \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.17} \quad \text{kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : \underline{25400.76} \quad \text{cm}^3$$

$$W_{el,z,fi} : \underline{4321.29} \quad \text{cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \underline{27.60} \quad \text{MPa}$$

$$f_{m,z,d,fi} : \underline{30.36} \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \quad \text{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : \underline{1.00}$$

$$k_{h,z,fi} : \underline{1.10}$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.343} \quad \checkmark$$

$$\sigma : \underline{0.241} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.407 m del nudo N15, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{0.19} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : \underline{9.44} \text{ MPa}$$

$$\sigma_{m,z,d,fi} : \underline{0.04} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{239.77} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{-0.17} \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : \underline{25400.76} \text{ cm}^3$$

$$W_{el,z,fi} : \underline{4321.29} \text{ cm}^3$$

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d,fi} : \underline{18.98} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \underline{1.00}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \underline{16.50} \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \underline{27.60} \text{ MPa}$$

$$f_{m,z,d,fi} : \underline{30.36} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : \underline{1.00}$$

$$k_{h,z,fi} : \underline{1.10}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$$h_{fi} : \underline{164.00} \text{ mm}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

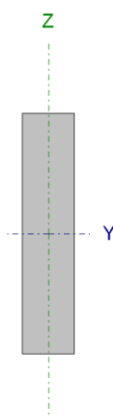
$$k_m : \underline{0.70}$$

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

La comprobación no procede, ya que la barra no está sometida a flexión y compresión combinadas.

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

La comprobación no procede, ya que la barra no está sometida a momento torsor ni a esfuerzo cortante.

Perfil: V-1020x220 Material: Madera (GL24h)							
	Nudos		Longitud (m)	Características mecánicas			
	Inicial	Final		Área (cm²)	I _y ⁽¹⁾ (cm4)	I _z ⁽¹⁾ (cm4)	I _t ⁽²⁾ (cm4)
	N16	N18	1.627	2244.00	1945548.00	90508.00	311413.34
	Notas: ⁽¹⁾ Inercia respecto al eje indicado ⁽²⁾ Momento de inercia a torsión uniforme						
		Pandeo		Pandeo lateral			
		Plano XY	Plano XZ	Ala sup.	Ala inf.		
	η	1.00	1.00	0.00	0.00		
	L _K	1.627	1.627	0.000	0.000		
	C ₁	-		1.000			
	Notación: η: Coeficiente de pandeo L _K : Longitud de pandeo (m) C ₁ : Factor de modificación para el momento crítico						
Situación de incendio							
Resistencia requerida: R30							

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\eta : \underline{0.005} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

 $\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.05} \text{ MPa}$$

Donde:

 $N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{12.22} \text{ kN}$$

 A : Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

 $f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \underline{11.88} \text{ MPa}$$

Donde:

 k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

 k_h : Factor de altura, dado por:

$$k_h : \underline{1.00}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

 $f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \underline{16.50} \text{ MPa}$$

 γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
1.35·PP+1.35·CM+1.05·Q+1.5·N.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{0.73} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_c : \underline{0.99}$$

Donde:

$$k_z : \underline{0.59}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : \underline{0.41}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : \underline{9400.00} \text{ MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : \underline{25.62}$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : \underline{1627.00} \text{ mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.876 ✓

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.814 m del nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 13.46 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 513.49 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.006 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$: 0.00 MPa

$\sigma_{m,z,d}^-$: 0.12 MPa

Donde:

M_d : Momento flector de cálculo

$M_{z,d}^+$: 0.00 kN·m

$M_{z,d}^-$: 0.98 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,z,d}^+$: 12.67 MPa

$f_{m,z,d}^-$: 19.01 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.60

k_{mod}^- : 0.90

Donde:

Clase de duración de la carga

Clase⁺ : Permanente

Clase⁻ : Corta duración

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.007} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{1.33} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.047} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.08} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{z,d} : \underline{8.19} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

$\tau_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : 0.01 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la sección transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la sección transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexión esviada - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.877 \quad \checkmark$$

$$\sigma : 0.614 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.017 m del nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,d} : 13.46 \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.02} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{513.28} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \underline{0.18} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \text{ MPa}$$

$$f_{m,z,d} : \underline{16.90} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \underline{1.25}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.850} \quad \checkmark$$

$$\sigma : \underline{0.597} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.610 m del nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.03} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{6.84} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{14.62} \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.04} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{557.85} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \underline{-0.36} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \frac{11.88}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\quad}$$

k_h : Factor de altura, dado por:

$$k_h : \frac{1.00}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\quad} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{17.28}{\quad} \text{ MPa}$$

$$f_{m,z,d} : \frac{19.01}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\quad}$$

$$k_{h,z} : \frac{1.10}{\quad}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\quad} \text{ mm}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\quad}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.017 m del nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.877}{\quad} \checkmark$$

$$\sigma : \frac{0.614}{\quad} \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\eta : \underline{0.877} \quad \checkmark$$

$$\eta : \underline{0.615} \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.00} \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{0.34} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{13.46} \quad \text{MPa}$$

$$\sigma_{m,z,d} : \underline{0.02} \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{513.28} \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.18} \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \quad \text{cm}^3$$

$$W_{el,z} : \underline{8228.00} \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{15.36} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \quad \text{MPa}$$

$$f_{m,z,d} : \underline{16.90} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.004}{}$$

$$\eta : \frac{0.044}{}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.09}{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \frac{0.86}{kN}$$

$$V_{z,d} : \frac{8.59}{kN}$$

$$A : \frac{2244.00}{cm^2}$$

$$k_{cr} : \frac{0.67}{}$$

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

W_{tor} : Modulo resistente a torsión

k_{shape} : Factor cuyo valor depende del tipo de sección

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \frac{0.01}{kN \cdot m}$$

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

$$k_{shape} : \frac{1.70}{}$$

$$f_{v,d} : \frac{1.94}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

η_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \frac{0.90}{}$$

$$f_{v,k} : \frac{2.70}{MPa}$$

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de tracción.

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : \underline{0.19} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : \underline{27.60} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

$k_{c,fi}$: Factor de inestabilidad, dado por:

$$k_{c,z,fi} : \underline{0.97}$$

Donde:

$$k_{z,fi} : \underline{0.67}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\varphi_{rel,z,fi}$: Esbeltez relativa, dada por:

$$\varphi_{rel,z,fi} : \underline{0.55}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{z,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{z,fi}$: 34.37

Donde:

$L_{k,z}$: Longitud de pandeo de la barra
 $i_{z,fi}$: Radio de giro

$L_{k,z}$: 1627.00 mm
 $i_{z,fi}$: 47.34 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y,fi}$: Esbeltez relativa, dada por:

$\lambda_{rel,y,fi}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{y,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{y,fi}$: 5.85

Donde:

$L_{k,y}$: Longitud de pandeo de la barra
 $i_{y,fi}$: Radio de giro

$L_{k,y}$: 1627.00 mm
 $i_{y,fi}$: 278.28 mm

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.342 ✓

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 0.814 m del nudo N16, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$: 9.44 MPa
 $\sigma_{m,y,d,fi}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo
 $W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{y,d}^+$: 239.81 kN·m
 $M_{y,d}^-$: 0.00 kN·m
 $W_{el,y,fi}$: 25400.76 cm³

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \frac{27.60}{\quad} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\quad}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \frac{\text{Duración media}}{\quad}$$

$$\text{Clase}^- : \frac{\text{Permanente}}{\quad}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.00}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \frac{1.00}{\quad}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{\quad}$$

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : \frac{0.003}{\quad}$$



El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,z,d,fi}^+ : \frac{0.08}{\quad} \text{ MPa}$$

$$\sigma_{m,z,d,fi}^- : \frac{0.00}{\quad} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{z,d}^+ : \frac{0.35}{\quad} \text{ kN}\cdot\text{m}$$

$$M_{z,d}^- : \frac{0.00}{\quad} \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,z,fi} : \frac{4321.29}{\quad} \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,z,d,fi} : \frac{30.36}{\quad} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\quad}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \frac{\text{Duración media}}{\quad}$$

$$\text{Clase}^- : \frac{\text{Permanente}}{\quad}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.10}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción
 $\eta_{M,fi}$: Coeficiente parcial para las propiedades del material
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

h_{fi} : 164.00 mm
 $\eta_{M,fi}$: 1.00
 k_{fi} : 1.15

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.002 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{y,d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo
 A_{fi} : Área de la sección transversal
 k_{cr} : Factor que tiene en cuenta la influencia de las fendas

V_{d} : 0.43 kN
 A_{fi} : 1580.96 cm²
 k_{cr} : 0.67
 $f_{v,d,fi}$: 3.11 MPa

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad
 $f_{v,k}$: Resistencia característica a cortante
 $\eta_{M,fi}$: Coeficiente parcial para las propiedades del material
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$k_{mod,fi}$: 1.00
 $f_{v,k}$: 2.70 MPa
 $\eta_{M,fi}$: 1.00
 k_{fi} : 1.15

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.017 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{z,d,fi}$: 0.05 MPa

Donde:

V_d : Cortante de cálculo
 A_{fi} : Área de la sección transversal
 k_{cr} : Factor que tiene en cuenta la influencia de las fendas
 $f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$\begin{aligned}
 V_{d,d} &: 3.78 \text{ kN} \\
 A_{fi} &: 1580.96 \text{ cm}^2 \\
 k_{cr} &: 0.67 \\
 f_{v,d,fi} &: 3.11 \text{ MPa}
 \end{aligned}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad
 $f_{v,k}$: Resistencia característica a cortante
 $\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$\begin{aligned}
 k_{mod,fi} &: 1.00 \\
 f_{v,k} &: 2.70 \text{ MPa} \\
 \gamma_{M,fi} &: 1.00 \\
 k_{fi} &: 1.15
 \end{aligned}$$

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay momento torsor.

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\gamma : 0.342 \quad \checkmark$$

$$\gamma : 0.240 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N16, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\begin{aligned}
 \sigma_{m,y,d,fi} &: 9.43 \text{ MPa} \\
 \sigma_{m,z,d,fi} &: 0.04 \text{ MPa}
 \end{aligned}$$

Donde:

M_d : Momento flector de cálculo
 $W_{el,fi}$: Módulo resistente elástico de la sección transversal

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$\begin{aligned}
 M_{y,d} &: 239.43 \text{ kN}\cdot\text{m} \\
 M_{z,d} &: 0.17 \text{ kN}\cdot\text{m} \\
 W_{el,y,fi} &: 25400.76 \text{ cm}^3 \\
 W_{el,z,fi} &: 4321.29 \text{ cm}^3 \\
 f_{m,y,d,fi} &: 27.60 \text{ MPa} \\
 f_{m,z,d,fi} &: 30.36 \text{ MPa}
 \end{aligned}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad
 $f_{m,k}$: Resistencia característica a flexión
 $k_{h,fi}$: Factor de altura, dado por:
 $\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\begin{aligned}
 k_{mod,fi} &: 1.00 \\
 f_{m,k} &: 24.00 \text{ MPa} \\
 k_{h,y,fi} &: 1.00 \\
 k_{h,z,fi} &: 1.10 \\
 \gamma_{M,fi} &: 1.00
 \end{aligned}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_m : 0.70

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay interacción entre axil de tracción y momento flector para ninguna combinación.

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N16, para la combinación de acciones PP+CM+0.6·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

σ : 0.342 ✓

σ : 0.240 ✓

Resistencia a pandeo para flexión y compresión combinados

σ : 0.343 ✓

σ : 0.240 ✓

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$\sigma_{c,0,d,fi}$: 0.00 MPa

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$N_{c,0,d,fi}$: 0.19 kN

A_{fi} : Área de la sección transversal

A_{fi} : 1580.96 cm²

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}$: 9.43 MPa

$\sigma_{m,z,d,fi}$: 0.04 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}$: 239.43 kN·m

$M_{z,d}$: 0.17 kN·m

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : \frac{25400.76}{cm^3}$$

$$W_{el,z,fi} : \frac{4321.29}{cm^3}$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : \frac{27.60}{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \frac{24.00}{MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \frac{1.00}{}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{}$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \frac{27.60}{MPa}$$

$$f_{m,z,d,fi} : \frac{30.36}{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : \frac{1.00}{}$$

$$k_{h,z,fi} : \frac{1.10}{}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$$h_{fi} : \frac{164.00}{mm}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \frac{1.00}{}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{}$$

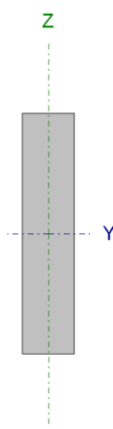
$k_{c,fi}$: Factor de inestabilidad

$$k_{c,y,fi} : \frac{1.00}{}$$

$$k_{c,z,fi} : \frac{0.97}{}$$

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

La comprobación no procede, ya que la barra no está sometida a momento torsor ni a esfuerzo cortante.

Perfil: V-1020x220 Material: Madera (GL24h)							
	Nudos		Longitud (m)	Características mecánicas			
	Inicial	Final		Área (cm²)	I _y ⁽¹⁾ (cm4)	I _z ⁽¹⁾ (cm4)	I _t ⁽²⁾ (cm4)
	N17	N19	1.627	2244.00	1945548.00	90508.00	311413.34
	Notas:						
	⁽¹⁾ Inercia respecto al eje indicado						
	⁽²⁾ Momento de inercia a torsión uniforme						
		Pandeo		Pandeo lateral			
		Plano XY		Plano XZ	Ala sup.		Ala inf.
	η	1.00		1.00	0.00		0.00
	L _K	1.627		1.627	0.000		0.000
C ₁	-			1.000			
Notación:							
η: Coeficiente de pandeo							
L _K : Longitud de pandeo (m)							
C ₁ : Factor de modificación para el momento crítico							
Situación de incendio							
Resistencia requerida: R30							

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
 $1.35 \cdot PP + 1.35 \cdot CM + 1.05 \cdot Q + 1.5 \cdot N$.

Donde:

 $\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.00 \text{ MPa}$$

Donde:

 $N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.83 \text{ kN}$$

 A : Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

 $f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 11.88 \text{ MPa}$$

Donde:

 k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

 k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

 $f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

 γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma : 0.003 \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma : 0.003 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5-V.

Donde:

$N_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$N_{c,0,d} : 0.05 \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : 11.30 \quad \text{kN}$$

A: Área de la sección transversal

$$A : 2244.00 \quad \text{cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : 17.28 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_{c,z} : 0.99$$

Donde:

$$k_z : 0.59$$

Donde:

γ_c : Factor asociado a la rectitud de las piezas

$$\gamma_c : 0.10$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : 0.41$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : 9400.00 \quad \text{MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : 25.62$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : 1627.00 \quad \text{mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.871 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 13.38 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 510.60 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.006 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$: 0.12 MPa

$\sigma_{m,z,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{z,d}^+$: 0.95 kN·m

$M_{z,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,z,d}^+$: 19.01 MPa

$f_{m,z,d}^-$: 12.67 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.90

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

Clase⁺ : Corta duración

Clase⁻ : Permanente

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.007} \quad \checkmark$$

El esfuerzo solicitante de cálculo p simo se produce en el nudo N17, para la combinaci n de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

Donde:

σ_d : Tensi n de c lculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de c lculo

A :  rea de la secci n transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de c lculo a cortante, dada por:

$$V_{y,d} : \underline{1.38} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificaci n por la duraci n de la carga (Corta duraci n) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia caracter stica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.90}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.144} \quad \checkmark$$

El esfuerzo solicitante de c lculo p simo se produce en el nudo N19, para la combinaci n de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensi n de c lculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.25} \quad \text{MPa}$$

Donde:

V_d : Cortante de c lculo

A :  rea de la secci n transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de c lculo a cortante, dada por:

$$V_{z,d} : \underline{24.92} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificaci n por la duraci n de la carga (Duraci n media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia caracter stica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.80}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo p simo se produce para la combinaci n de acciones
PP+1.35 CM+1.05 Q+1.5 V.

Donde:

$\tau_{tor,d}$: Tensi n de c lculo a torsi n, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de c lculo

$$M_{x,d} : 0.01 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsi n

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de secci n

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la secci n transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la secci n transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de c lculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificaci n por la duraci n de la carga (Corta duraci n) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia caracter stica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexi n esviada - Temperatura ambiente (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexi n esviada

$$\eta : 0.875 \quad \checkmark$$

$$\eta : 0.615 \quad \checkmark$$

El esfuerzo solicitante de c lculo p simo se produce en el nudo N17, para la combinaci n de acciones
1.35 PP+1.35 CM+1.5 Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \frac{13.38}{\text{MPa}}$$
$$\sigma_{m,z,d} : \frac{0.08}{\text{MPa}}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \frac{510.60}{\text{kN}\cdot\text{m}}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \frac{0.70}{\text{kN}\cdot\text{m}}$$

$$W_{el,y} : \frac{38148.00}{\text{cm}^3}$$

$$W_{el,z} : \frac{8228.00}{\text{cm}^3}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{15.36}{\text{MPa}}$$

$$f_{m,z,d} : \frac{16.90}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\text{MPa}}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\text{MPa}}$$

$$k_{h,z} : \frac{1.10}{\text{MPa}}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \frac{1.25}{\text{MPa}}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\text{MPa}}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \frac{0.875}{\text{MPa}} \quad \checkmark$$

$$\sigma : \frac{0.615}{\text{MPa}} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \frac{0.00}{\text{MPa}}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \frac{0.38}{\text{kN}}$$

A : Área de la sección transversal

$$A : \frac{2244.00}{\text{cm}^2}$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \frac{13.38}{\text{MPa}}$$

$$\sigma_{m,z,d} : \frac{0.08}{\text{MPa}}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \frac{510.60}{\text{kN}\cdot\text{m}}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \frac{0.70}{\text{kN}\cdot\text{m}}$$

$$W_{el,y} : \frac{38148.00}{\text{cm}^3}$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$W_{el,z} : \frac{8228.00}{\text{cm}^3}$$
$$f_{t,0,d} : \frac{10.56}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\text{MPa}}$$
$$k_h : \frac{1.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\text{MPa}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{15.36}{\text{MPa}}$$

$$f_{m,z,d} : \frac{16.90}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\text{MPa}}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\text{MPa}}$$

$$k_{h,z} : \frac{1.10}{\text{MPa}}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\text{mm}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\text{MPa}}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.846}{\text{MPa}} \quad \checkmark$$

$$\sigma : \frac{0.595}{\text{MPa}} \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.847 \quad \checkmark$$

$$\sigma : 0.596 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : 0.03 \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : 6.22 \quad \text{kN}$$

A : Área de la sección transversal

$$A : 2244.00 \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : 14.55 \quad \text{MPa}$$

$$\sigma_{m,z,d} : 0.10 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 555.00 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : 0.86 \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : 38148.00 \quad \text{cm}^3$$

$$W_{el,z} : 8228.00 \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : 17.28 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : 17.28 \quad \text{MPa}$$

$$f_{m,z,d} : 19.01 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : 1.00$$

$$k_{h,z} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.005}{}$$

$$\eta : \frac{0.144}{}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.25}{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \frac{0.83}{kN}$$

$$V_{z,d} : \frac{24.92}{kN}$$

A : Área de la sección transversal

$$A : \frac{2244.00}{cm^2}$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \frac{0.67}{}$$

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \frac{0.01}{kN \cdot m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : \frac{1.70}{}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \frac{1.73}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \frac{2.70}{MPa}$$

η_M : Coeficiente parcial para las propiedades del material

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo p simo se produce para la combinaci n de acciones PP+CM+0.6 Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensi n de c lculo a tracci n paralela a la fibra, dada por: $\sigma_{t,0,d,fi} : 0.00$ MPa

Donde:

$N_{t,0,d}$: Tracci n axial de c lculo paralela a la fibra

$$N_{t,0,d} : 0.21 \text{ kN}$$

A_{fi} :  rea de la secci n transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$f_{t,0,d,fi}$: Resistencia de c lculo a tracci n paralela a la fibra, dada por:

$$f_{t,0,d,fi} : 18.98 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificaci n para la duraci n de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : 1.00$$

Para cantos (flexi n) o anchos (tracci n) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia caracter stica a tracci n paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de correcci n para las propiedades de la madera en situaci n de incendio

$$k_{fi} : 1.15$$

Resistencia a compresi n uniforme paralela a la fibra - Situaci n de incendio (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

La comprobaci n no procede, ya que no hay axil de compresi n.

Resistencia a flexi n en el eje y - Situaci n de incendio (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la secci n transversal a flexi n:

$$\sigma : 0.340 \quad \checkmark$$

El esfuerzo solicitante de c lculo p simo se produce en el nudo N17, para la combinaci n de acciones PP+CM+0.6 Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi}^+ : \frac{9.39}{\text{MPa}}$$

$$\sigma_{m,y,d,fi}^- : \frac{0.00}{\text{MPa}}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d}^+ : \frac{238.60}{\text{kN}\cdot\text{m}}$$

$$M_{y,d}^- : \frac{0.00}{\text{kN}\cdot\text{m}}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : \frac{25400.76}{\text{cm}^3}$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \frac{27.60}{\text{MPa}}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\text{MPa}}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \text{Duración media}$$

$$\text{Clase}^- : \text{Permanente}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\text{MPa}}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.00}{\text{MPa}}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \frac{1.00}{\text{MPa}}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{\text{MPa}}$$

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : \frac{0.003}{\text{MPa}}$$



El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,z,d,fi}^+ : \frac{0.08}{\text{MPa}}$$

$$\sigma_{m,z,d,fi}^- : \frac{0.00}{\text{MPa}}$$

Donde:

M_d : Momento flector de cálculo

$$M_{z,d}^+ : \frac{0.35}{\text{kN}\cdot\text{m}}$$

$$M_{z,d}^- : \frac{0.00}{\text{kN}\cdot\text{m}}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,z,fi} : \frac{4321.29}{\text{cm}^3}$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,z,d,fi} : \frac{30.36}{\text{MPa}}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

Donde:

Clase de duración de la carga

Clase⁺ : Duración media

Clase de servicio

Clase⁻ : Permanente

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,fi}$: 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

h_{fi} : 164.00 mm

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$\alpha_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.002 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo

$V_{d,i}$: 0.42 kN

A_{fi} : Área de la sección transversal

A_{fi} : 1580.96 cm²

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

k_{cr} : 0.67

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$f_{v,d,fi}$: 3.11 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

$f_{v,k}$: Resistencia característica a cortante

$f_{v,k}$: 2.70 MPa

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$\alpha_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : 0.053 \quad \checkmark$$

El esfuerzo solicitante de cálculo p simo se produce en el nudo N19, para la combinaci n de acciones PP+CM+0.6 Q.

Donde:

$\sigma_{d,fi}$: Tensi n de c lculo a cortante, dada por:

$$\sigma_{d,fi} : 0.16 \quad \text{MPa}$$

Donde:

V_d : Cortante de c lculo

$$V_{d,fi} : 11.60 \quad \text{kN}$$

A_{fi} :  rea de la secci n transversal

$$A_{fi} : 1580.96 \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : 0.67$$

$f_{v,d,fi}$: Resistencia de c lculo a cortante, dada por:

$$f_{v,d,fi} : 3.11 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificaci n para la duraci n de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{v,k}$: Resistencia caracter stica a cortante

$$f_{v,k} : 2.70 \quad \text{MPa}$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de correcci n para las propiedades de la madera en situaci n de incendio

$$k_{fi} : 1.15$$

Resistencia a torsi n - Situaci n de incendio (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de c lculo p simo se produce para la combinaci n de acciones PP+CM+0.6 Q.

Donde:

$\sigma_{tor,d,fi}$: Tensi n de c lculo a torsi n, dada por:

$$\sigma_{tor,d,fi} : 0.00 \quad \text{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de c lculo

$$M_{x,d,fi} : 0.00 \quad \text{kN}\cdot\text{m}$$

$W_{tor,fi}$: Modulo resistente a torsi n

$$W_{tor,fi} : 7840.30 \quad \text{cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de secci n

$$k_{shape,fi} : 1.88$$

Donde:

$b_{max,fi}$: Ancho mayor de la secci n transversal

$$b_{max,fi} : 964.00 \quad \text{mm}$$

$b_{min,fi}$: Ancho menor de la secci n transversal

$$b_{min,fi} : 164.00 \quad \text{mm}$$

$f_{v,d,fi}$: Resistencia de c lculo a cortante, dada por:

$$f_{v,d,fi} : 3.11 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificaci n para la duraci n de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{v,k}$: Resistencia caracter stica a cortante

$$f_{v,k} : 2.70 \quad \text{MPa}$$

$\eta_{M,fi}$: Coeficiente parcial para las propiedades del material

$\eta_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

η : 0.342 ✓

η : 0.241 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}$: 9.39 MPa

$\sigma_{m,z,d,fi}$: 0.08 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}$: 238.60 kN·m

$M_{z,d}$: 0.35 kN·m

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$W_{el,y,fi}$: 25400.76 cm³

$W_{el,z,fi}$: 4321.29 cm³

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d,fi}$: 27.60 MPa

$f_{m,z,d,fi}$: 30.36 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,y,fi}$: 1.00

$k_{h,z,fi}$: 1.10

$\eta_{M,fi}$: Coeficiente parcial para las propiedades del material

$\eta_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_m : 0.70

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

η : 0.342 ✓

$$\sigma : 0.241 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N17, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$$\sigma_{t,0,d,fi} : \text{Tensión de cálculo a tracción paralela a la fibra, dada por:} \quad \sigma_{t,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.21 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 9.39 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 238.60 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.35 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d,fi} : 18.98 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$\eta_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$h_{fi} : \underline{164.00} \text{ mm}$$

$$\eta_{M,fi} : \underline{1.00}$$

$$k_{fi} : \underline{1.15}$$

$$k_m : \underline{0.70}$$

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

La comprobación no procede, ya que la barra no esta sometida a flexión y compresión combinadas.

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\eta : \underline{0.002} \quad \checkmark$$

$$\eta : \underline{0.053} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d,fi} : \underline{0.01} \text{ MPa}$$

$$\sigma_{z,d,fi} : \underline{0.16} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{0.42} \text{ kN}$$

$$V_{z,d} : \underline{11.60} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$\tau_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,y,d,fi} : \underline{0.00} \text{ MPa}$$

$$\tau_{tor,z,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.00} \text{ kN·m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,y,fi} : \underline{46085.65} \text{ cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \text{ cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{v,k}$: Resistencia característica a cortante

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

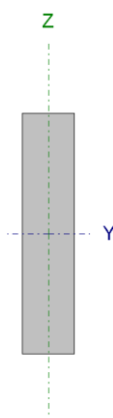
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$k_{mod,fi}$: 1.00

$f_{v,k}$: 2.70 MPa

$\gamma_{M,fi}$: 1.00

k_{fi} : 1.15

Perfil: V-1020x220 Material: Madera (GL24h)							
	Nudos		Longitud (m)	Características mecánicas			
	Inicial	Final		Área (cm²)	I _y ⁽¹⁾ (cm4)	I _z ⁽¹⁾ (cm4)	I _t ⁽²⁾ (cm4)
	N13	N15	1.627	2244.00	1945548.00	90508.00	311413.34
	Notas: ⁽¹⁾ Inercia respecto al eje indicado ⁽²⁾ Momento de inercia a torsión uniforme						
		Pandeo		Pandeo lateral			
		Plano XY	Plano XZ	Ala sup.	Ala inf.		
	η	1.00	1.00	0.00	0.00		
	L _K	1.627	1.627	0.000	0.000		
	C ₁	-		1.000			
	Notación: η: Coeficiente de pandeo L _K : Longitud de pandeo (m) C ₁ : Factor de modificación para el momento crítico						
Situación de incendio							
Resistencia requerida: R30							

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\eta < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
 $1.35 \cdot PP + 1.35 \cdot CM + 1.05 \cdot Q + 1.5 \cdot N$.

Donde:

 $\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.00 \text{ MPa}$$

Donde:

 $N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.62 \text{ kN}$$

 A : Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

 $f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 11.88 \text{ MPa}$$

Donde:

 k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

 k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

 $f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

 γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma : \underline{0.003} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma : \underline{0.003} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5-V.

Donde:

$N_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$N_{c,0,d} : \underline{0.05} \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{12.33} \quad \text{kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_{c,z} : \underline{0.99}$$

Donde:

$$k_z : \underline{0.59}$$

Donde:

γ_c : Factor asociado a la rectitud de las piezas

$$\gamma_c : \underline{0.10}$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : \underline{0.41}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : \underline{9400.00} \quad \text{MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : \underline{25.62}$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : \underline{1627.00} \quad \text{mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.871 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 13.38 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 510.61 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.006 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$: 0.00 MPa

$\sigma_{m,z,d}^-$: 0.12 MPa

Donde:

M_d : Momento flector de cálculo

$M_{z,d}^+$: 0.00 kN·m

$M_{z,d}^-$: 0.97 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,z,d}^+$: 12.67 MPa

$f_{m,z,d}^-$: 19.01 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.60

k_{mod}^- : 0.90

Donde:

Clase de duración de la carga

Clase⁺ : Permanente

Clase⁻ : Corta duración

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.007} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.05 \cdot Q + 0.9 \cdot V + 1.5 \cdot N$.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{y,d} : \underline{1.40} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.90}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.144} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.5 \cdot Q$.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.25} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{z,d} : \underline{24.91} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.80}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+1.35·CM+1.5·Q.

Donde:

$\tau_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : 0.01 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la sección transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la sección transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.73 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexión esviada - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.875 \quad \checkmark$$

$$\sigma : 0.615 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,d} : 13.38 \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{510.61} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.69} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \text{ MPa}$$

$$f_{m,z,d} : \underline{16.90} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \underline{1.25}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.875} \quad \checkmark$$

$$\sigma : \underline{0.615} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{0.30} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{13.38} \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{510.61} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{-0.69} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \frac{10.56}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\quad}$$

k_h : Factor de altura, dado por:

$$k_h : \frac{1.00}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\quad} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{15.36}{\quad} \text{ MPa}$$

$$f_{m,z,d} : \frac{16.90}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\quad}$$

$$k_{h,z} : \frac{1.10}{\quad}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\quad} \text{ mm}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\quad}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.5 \cdot Q + 0.9 \cdot V + 0.75 \cdot N$.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.846}{\quad} \quad \checkmark$$

$$\sigma : \frac{0.595}{\quad} \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : \underline{0.848} \quad \checkmark$$

$$\sigma : \underline{0.597} \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.03} \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{6.97} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{14.55} \quad \text{MPa}$$

$$\sigma_{m,z,d} : \underline{0.11} \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{555.03} \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.92} \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \quad \text{cm}^3$$

$$W_{el,z} : \underline{8228.00} \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{17.28} \quad \text{MPa}$$

$$f_{m,z,d} : \underline{19.01} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.005}{}$$

$$\eta : \frac{0.144}{}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.25}{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \frac{0.83}{kN}$$

$$V_{z,d} : \frac{24.91}{kN}$$

$$A : \frac{2244.00}{cm^2}$$

$$k_{cr} : \frac{0.67}{}$$

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

W_{tor} : Modulo resistente a torsión

k_{shape} : Factor cuyo valor depende del tipo de sección

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \frac{0.01}{kN \cdot m}$$

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

$$k_{shape} : \frac{1.70}{}$$

$$f_{v,d} : \frac{1.73}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

η_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \frac{0.80}{}$$

$$f_{v,k} : \frac{2.70}{MPa}$$

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{0.16} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d,fi} : \underline{18.98} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \underline{1.00}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \underline{16.50} \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de compresión.

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : \underline{0.340} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión: $\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$	9.39	MPa
$\sigma_{m,y,d,fi}^-$	0.00	MPa

Donde:

 M_d : Momento flector de cálculo

$M_{y,d}^+$	238.62	kN·m
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 $W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{y,d}^-$	0.00	kN·m
-------------	------	------

 $f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$W_{el,y,fi}$	25400.76	cm ³
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$f_{m,y,d,fi}$	27.60	MPa
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Donde:

 $k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$	1.00	
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Donde:

Clase de duración de la carga

Clase⁺: Duración mediaClase⁻: Permanente

Clase de servicio

Clase: 2

 $f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$	24.00	MPa
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 $k_{h,fi}$: Factor de altura, dado por:

$k_{h,fi}$	1.00	
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Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

 $\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi}$	1.00	
-----------------	------	--

 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi}	1.15	
----------	------	--

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ	0.003	
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El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión: $\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d,fi}^+$	0.00	MPa
$\sigma_{m,z,d,fi}^-$	0.08	MPa

Donde:

 M_d : Momento flector de cálculo

$M_{z,d}^+$	0.00	kN·m
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 $W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{z,d}^-$	0.35	kN·m
-------------	------	------

 $f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$W_{el,z,fi}$	4321.29	cm ³
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$f_{m,z,d,fi}$	30.36	MPa
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Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

Donde:

Clase de duración de la carga

Clase⁺ : Permanente

Clase de servicio

Clase⁻ : Duración media

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,fi}$: 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

h_{fi} : 164.00 mm

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.002 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo

V_d : 0.42 kN

A_{fi} : Área de la sección transversal

A_{fi} : 1580.96 cm²

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

k_{cr} : 0.67

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$f_{v,d,fi}$: 3.11 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

$f_{v,k}$: Resistencia característica a cortante

$f_{v,k}$: 2.70 MPa

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.053 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{d,fi} : \underline{0.16} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{d,fi} : \underline{11.59} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\sigma_{tor,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.00} \text{ kN·m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,fi} : \underline{7840.30} \text{ cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

Donde:

$b_{max,fi}$: Ancho mayor de la sección transversal

$$b_{max,fi} : \underline{964.00} \text{ mm}$$

$b_{min,fi}$: Ancho menor de la sección transversal

$$b_{min,fi} : \underline{164.00} \text{ mm}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : \underline{0.342} \quad \checkmark$$

$$\sigma : \underline{0.241} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : \underline{9.39} \quad \text{MPa}$$

$$\sigma_{m,z,d,fi} : \underline{0.08} \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{238.62} \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.35} \quad \text{kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : \underline{25400.76} \quad \text{cm}^3$$

$$W_{el,z,fi} : \underline{4321.29} \quad \text{cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \underline{27.60} \quad \text{MPa}$$

$$f_{m,z,d,fi} : \underline{30.36} \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \quad \text{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : \underline{1.00}$$

$$k_{h,z,fi} : \underline{1.10}$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.342} \quad \checkmark$$

$$\sigma : 0.241 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N15, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d,fi} : 0.00 \quad \text{MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.16 \quad \text{kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \quad \text{cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 9.39 \quad \text{MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 238.62 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : -0.35 \quad \text{kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \quad \text{cm}^3$$

$$W_{el,z,fi} : 4321.29 \quad \text{cm}^3$$

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d,fi} : 18.98 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \quad \text{MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \quad \text{MPa}$$

$$f_{m,z,d,fi} : 30.36 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \quad \text{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$$h_{fi} : 164.00 \quad \text{mm}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

La comprobación no procede, ya que la barra no esta sometida a flexión y compresión combinadas.

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\tau : \underline{0.002} \quad \checkmark$$

$$\tau : \underline{0.053} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\tau_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\tau_{y,d,fi} : \underline{0.01} \quad \text{MPa}$$

$$\tau_{z,d,fi} : \underline{0.16} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{0.42} \quad \text{kN}$$

$$V_{z,d} : \underline{11.59} \quad \text{kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$\tau_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,y,d,fi} : \underline{0.00} \quad \text{MPa}$$

$$\tau_{tor,z,d,fi} : \underline{0.00} \quad \text{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.00} \quad \text{kN}\cdot\text{m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,y,fi} : \underline{46085.65} \quad \text{cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \quad \text{cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

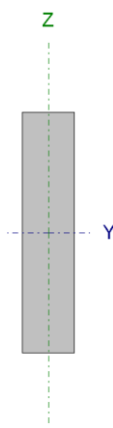
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Perfil: V-1020x220
Material: Madera (GL24h)



Nudos		Longitud (m)	Características mecánicas			
Inicial	Final		Área (cm²)	I _y ⁽¹⁾ (cm4)	I _z ⁽¹⁾ (cm4)	I _t ⁽²⁾ (cm4)
N18	N20	1.627	2244.00	1945548.00	90508.00	311413.34
Notas: ⁽¹⁾ Inercia respecto al eje indicado ⁽²⁾ Momento de inercia a torsión uniforme						
	Pandeo		Pandeo lateral			
	Plano XY	Plano XZ	Ala sup.	Ala inf.		
⌈	1.00	1.00	0.00	0.00		
L _k	1.627	1.627	0.000	0.000		
C ₁	-		1.000			
Notación: ⌈: Coeficiente de pandeo L _k : Longitud de pandeo (m) C ₁ : Factor de modificación para el momento crítico						
Situación de incendio						
Resistencia requerida: R30						

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\sigma_{t,0,d} : 0.004 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.05 \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 11.30 \text{ kN}$$

A: Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 11.88 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
1.35·PP+1.35·CM+1.05·Q+1.5·N.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{0.84} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_c : \underline{0.99}$$

Donde:

$$k_z : \underline{0.59}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : \underline{0.41}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : \underline{9400.00} \text{ MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : \underline{25.62}$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : \underline{1627.00} \text{ mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.871 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 13.37 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 510.17 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.006 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$: 0.12 MPa

$\sigma_{m,z,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{z,d}^+$: 0.95 kN·m

$M_{z,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,z,d}^+$: 19.01 MPa

$f_{m,z,d}^-$: 12.67 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.90

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

Clase⁺ : Corta duración

Clase⁻ : Permanente

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.007} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.05 \cdot Q + 0.9 \cdot V + 1.5 \cdot N$.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{y,d} : \underline{1.38} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.90}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.144} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.5 \cdot Q$.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.25} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{z,d} : \underline{24.87} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.80}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.05·Q+1.5·V.

Donde:

$\tau_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : 0.00 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la sección transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la sección transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexión esviada - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.874 \quad \checkmark$$

$$\sigma : 0.614 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,d} : 13.37 \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{510.17} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.70} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \text{ MPa}$$

$$f_{m,z,d} : \underline{16.90} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \underline{1.25}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.847} \quad \checkmark$$

$$\sigma : \underline{0.597} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.03} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{6.21} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{14.54} \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.10} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{554.58} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.86} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \frac{11.88}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_h : \frac{1.00}{\text{MPa}}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\text{MPa}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{17.28}{\text{MPa}}$$

$$f_{m,z,d} : \frac{19.01}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\text{MPa}}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\text{MPa}}$$

$$k_{h,z} : \frac{1.10}{\text{MPa}}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\text{mm}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\text{MPa}}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.874}{\text{MPa}} \quad \checkmark$$

$$\sigma : \frac{0.614}{\text{MPa}} \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.874 \quad \checkmark$$

$$\sigma : 0.615 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : 0.00 \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : 0.38 \quad \text{kN}$$

A : Área de la sección transversal

$$A : 2244.00 \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : 13.37 \quad \text{MPa}$$

$$\sigma_{m,z,d} : 0.08 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 510.17 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : 0.70 \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : 38148.00 \quad \text{cm}^3$$

$$W_{el,z} : 8228.00 \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : 15.36 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : 15.36 \quad \text{MPa}$$

$$f_{m,z,d} : 16.90 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : 1.00$$

$$k_{h,z} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.005}{}$$

$$\eta : \frac{0.144}{}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.25}{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \frac{0.83}{kN}$$

$$V_{z,d} : \frac{24.87}{kN}$$

$$A : \frac{2244.00}{cm^2}$$

$$k_{cr} : \frac{0.67}{}$$

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

W_{tor} : Modulo resistente a torsión

k_{shape} : Factor cuyo valor depende del tipo de sección

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \frac{0.00}{kN \cdot m}$$

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

$$k_{shape} : \frac{1.70}{}$$

$$f_{v,d} : \frac{1.73}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

η_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \frac{0.80}{}$$

$$f_{v,k} : \frac{2.70}{MPa}$$

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de tracción.

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : \underline{0.21} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : \underline{27.60} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

$k_{c,fi}$: Factor de inestabilidad, dado por:

$$k_{c,z,fi} : \underline{0.97}$$

Donde:

$$k_{z,fi} : \underline{0.67}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\lambda_{rel,z,fi}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z,fi} : \underline{0.55}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{z,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{z,fi}$: 34.37

Donde:

$L_{k,z}$: Longitud de pandeo de la barra
 $i_{z,fi}$: Radio de giro

$L_{k,z}$: 1627.00 mm
 $i_{z,fi}$: 47.34 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y,fi}$: Esbeltez relativa, dada por:

$\lambda_{rel,y,fi}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{y,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{y,fi}$: 5.85

Donde:

$L_{k,y}$: Longitud de pandeo de la barra
 $i_{y,fi}$: Radio de giro

$L_{k,y}$: 1627.00 mm
 $i_{y,fi}$: 278.28 mm

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.340 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$: 9.38 MPa
 $\sigma_{m,y,d,fi}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo
 $W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{y,d}^+$: 238.28 kN·m
 $M_{y,d}^-$: 0.00 kN·m
 $W_{el,y,fi}$: 25400.76 cm³

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \frac{27.60}{\quad} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\quad}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \frac{\text{Duración media}}{\quad}$$

$$\text{Clase}^- : \frac{\text{Permanente}}{\quad}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.00}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \frac{1.00}{\quad}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{\quad}$$

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : \frac{0.003}{\quad} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,z,d,fi}^+ : \frac{0.08}{\quad} \text{ MPa}$$

$$\sigma_{m,z,d,fi}^- : \frac{0.00}{\quad} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{z,d}^+ : \frac{0.35}{\quad} \text{ kN}\cdot\text{m}$$

$$M_{z,d}^- : \frac{0.00}{\quad} \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,z,fi} : \frac{4321.29}{\quad} \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,z,d,fi} : \frac{30.36}{\quad} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\quad}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \frac{\text{Duración media}}{\quad}$$

$$\text{Clase}^- : \frac{\text{Permanente}}{\quad}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.10}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción
 $\eta_{M,fi}$: Coeficiente parcial para las propiedades del material
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

h_{fi} : 164.00 mm
 $\eta_{M,fi}$: 1.00
 k_{fi} : 1.15

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.002 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{y,d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo
 A_{fi} : Área de la sección transversal
 k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$V_{d,fi}$: 0.42 kN
 A_{fi} : 1580.96 cm²
 k_{cr} : 0.67
 $f_{v,d,fi}$: 3.11 MPa

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad
 $f_{v,k}$: Resistencia característica a cortante
 $\eta_{M,fi}$: Coeficiente parcial para las propiedades del material
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$k_{mod,fi}$: 1.00
 $f_{v,k}$: 2.70 MPa
 $\eta_{M,fi}$: 1.00
 k_{fi} : 1.15

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.053 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{z,d,fi}$: 0.16 MPa

Donde:

V_d : Cortante de cálculo	$V_{d,d}$: <u>11.57</u> kN
A_{fi} : Área de la sección transversal	A_{fi} : <u>1580.96</u> cm ²
k_{cr} : Factor que tiene en cuenta la influencia de las fendas	k_{cr} : <u>0.67</u>
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi}$: <u>3.11</u> MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi}$: <u>1.00</u>
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k}$: <u>2.70</u> MPa
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi}$: <u>1.00</u>
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	k_{fi} : <u>1.15</u>

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM.

Donde:

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:	$\sigma_{tor,d,fi}$: <u>0.00</u> MPa
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Donde:

$M_{x,d}$: Momento torsor de cálculo	$M_{x,d}$: <u>0.00</u> kN·m
$W_{tor,fi}$: Modulo resistente a torsión	$W_{tor,fi}$: <u>7840.30</u> cm ³
$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección	$k_{shape,fi}$: <u>1.88</u>

Donde:

$b_{max,fi}$: Ancho mayor de la sección transversal	$b_{max,fi}$: <u>964.00</u> mm
$b_{min,fi}$: Ancho menor de la sección transversal	$b_{min,fi}$: <u>164.00</u> mm
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi}$: <u>3.11</u> MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi}$: <u>1.00</u>
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k}$: <u>2.70</u> MPa
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi}$: <u>1.00</u>
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	k_{fi} : <u>1.15</u>

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.342 \quad \checkmark$$

$$\sigma : 0.241 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 9.38 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 238.28 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.35 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : 0.70$$

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay interacción entre axil de tracción y momento flector para ninguna combinación.

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N18, para la combinación de acciones PP+CM+0.6·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : 0.342 \quad \checkmark$$

$$\sigma : 0.241 \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.342 \quad \checkmark$$

$$\sigma : 0.241 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : 0.21 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 9.38 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 238.28 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.35 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : 27.60 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$k_{c,fi}$: Factor de inestabilidad

$$h_{fi} : \underline{164.00} \text{ mm}$$

$$\sigma_{M,fi} : \underline{1.00}$$

$$k_{fi} : \underline{1.15}$$

$$k_m : \underline{0.70}$$

$$k_{c,y,fi} : \underline{1.00}$$

$$k_{c,z,fi} : \underline{0.97}$$

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : \underline{0.002} \quad \checkmark$$

$$\sigma : \underline{0.053} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d,fi} : \underline{0.01} \text{ MPa}$$

$$\sigma_{z,d,fi} : \underline{0.16} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

A_{fi} : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \underline{0.42} \text{ kN}$$

$$V_{z,d} : \underline{11.57} \text{ kN}$$

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$\sigma_{tor,y,d,fi} : \underline{0.00} \text{ MPa}$$

$$\sigma_{tor,z,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$W_{tor,fi}$: Modulo resistente a torsión

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \underline{0.00} \text{ kN·m}$$

$$W_{tor,y,fi} : \underline{46085.65} \text{ cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \text{ cm}^3$$

$$k_{shape,fi} : \underline{1.88}$$

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$f_{v,k}$: 2.70 MPa

$\gamma_{M,fi}$: 1.00

k_{fi} : 1.15

Perfil: V-1020x220
Material: Madera (GL24h)

Nudos		Longitud (m)	Características mecánicas			
Inicial	Final		Área (cm ²)	I _y ⁽¹⁾ (cm ⁴)	I _z ⁽¹⁾ (cm ⁴)	I _t ⁽²⁾ (cm ⁴)
N14	N16	1.627	2244.00	1945548.00	90508.00	311413.34
Notas:						
⁽¹⁾ Inercia respecto al eje indicado						
⁽²⁾ Momento de inercia a torsión uniforme						

	Pandeo		Pandeo lateral	
	Plano XY	Plano XZ	Ala sup.	Ala inf.
⌈	1.00	1.00	0.00	0.00
L _k	1.627	1.627	0.000	0.000
C ₁	-		1.000	

Notación:

⌈: Coeficiente de pandeo

L_k: Longitud de pandeo (m)

C₁: Factor de modificación para el momento crítico

Situación de incendio

Resistencia requerida: R30

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\sigma_{t,0,d} : 0.005 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.05 \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 12.33 \text{ kN}$$

A: Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 11.88 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
1.35·PP+1.35·CM+1.05·Q+1.5·N.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{0.62} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_c : \underline{0.99}$$

Donde:

$$k_z : \underline{0.59}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : \underline{0.41}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : \underline{9400.00} \text{ MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : \underline{25.62}$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : \underline{1627.00} \text{ mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.871 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 13.37 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 510.15 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.006 ✓

El esfuerzo solicitante de cálculo p simo se produce en el nudo N16, para la combinaci n de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el m dulo resistente el stico de la secci n respecto al eje z es inferior o igual al m dulo resistente el stico respecto al eje y.

Resistencia de la secci n transversal a flexi n:

$\sigma_{m,d}$: Tensi n de c lculo a flexi n, dada por:

$\sigma_{m,z,d}^+$: 0.00 MPa

$\sigma_{m,z,d}^-$: 0.12 MPa

Donde:

M_d : Momento flector de c lculo

$M_{z,d}^+$: 0.00 kN·m

$M_{z,d}^-$: 0.98 kN·m

W_{el} : M dulo resistente el stico de la secci n transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de c lculo a flexi n, dada por:

$f_{m,z,d}^+$: 12.67 MPa

$f_{m,z,d}^-$: 19.01 MPa

Donde:

k_{mod} : Factor de modificaci n para la duraci n de la carga y el contenido de humedad

k_{mod}^+ : 0.60

k_{mod}^- : 0.90

Donde:

Clase de duraci n de la carga

Clase⁺ : Permanente

Clase⁻ : Corta duraci n

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia caracter stica a flexi n

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexi n) o anchos (tracci n) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexi n o mayor dimensi n de la secci n en tracci n

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.007} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.05 \cdot Q + 0.9 \cdot V + 1.5 \cdot N$.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{y,d} : \underline{1.40} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.90}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.144} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.5 \cdot Q$.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.25} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{z,d} : \underline{24.90} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.80}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+1.35·CM+1.5·V.

Donde:

$\tau_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : 0.01 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la sección transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la sección transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexión esviada - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.874 \quad \checkmark$$

$$\sigma : 0.614 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,d} : 13.37 \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{510.15} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \underline{0.69} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \text{ MPa}$$

$$f_{m,z,d} : \underline{16.90} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \underline{1.25}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.848} \quad \checkmark$$

$$\sigma : \underline{0.597} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.03} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{6.97} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{14.54} \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.11} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{554.57} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \underline{-0.92} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \frac{11.88}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\quad}$$

k_h : Factor de altura, dado por:

$$k_h : \frac{1.00}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\quad} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{17.28}{\quad} \text{ MPa}$$

$$f_{m,z,d} : \frac{19.01}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\quad}$$

$$k_{h,z} : \frac{1.10}{\quad}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\quad} \text{ mm}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\quad}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.874}{\quad} \checkmark$$

$$\sigma : \frac{0.614}{\quad} \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.874 \quad \checkmark$$

$$\sigma : 0.615 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : 0.00 \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : 0.29 \quad \text{kN}$$

A : Área de la sección transversal

$$A : 2244.00 \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : 13.37 \quad \text{MPa}$$

$$\sigma_{m,z,d} : 0.08 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 510.15 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : 0.69 \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : 38148.00 \quad \text{cm}^3$$

$$W_{el,z} : 8228.00 \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : 15.36 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : 15.36 \quad \text{MPa}$$

$$f_{m,z,d} : 16.90 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : 1.00$$

$$k_{h,z} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.005}{}$$

$$\eta : \frac{0.144}{}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.25}{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \frac{0.83}{kN}$$

$$V_{z,d} : \frac{24.90}{kN}$$

$$A : \frac{2244.00}{cm^2}$$

$$k_{cr} : \frac{0.67}{}$$

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

W_{tor} : Modulo resistente a torsión

k_{shape} : Factor cuyo valor depende del tipo de sección

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \frac{0.00}{kN \cdot m}$$

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

$$k_{shape} : \frac{1.70}{}$$

$$f_{v,d} : \frac{1.73}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

η_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \frac{0.80}{}$$

$$f_{v,k} : \frac{2.70}{MPa}$$

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de tracción.

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : \underline{0.16} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : \underline{27.60} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

$k_{c,fi}$: Factor de inestabilidad, dado por:

$$k_{c,z,fi} : \underline{0.97}$$

Donde:

$$k_{z,fi} : \underline{0.67}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\lambda_{rel,z,fi}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z,fi} : \underline{0.55}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{z,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{z,fi}$: 34.37

Donde:

$L_{k,z}$: Longitud de pandeo de la barra
 $i_{z,fi}$: Radio de giro

$L_{k,z}$: 1627.00 mm
 $i_{z,fi}$: 47.34 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y,fi}$: Esbeltez relativa, dada por:

$\lambda_{rel,y,fi}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{y,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{y,fi}$: 5.85

Donde:


$L_{k,y}$: Longitud de pandeo de la barra
 $i_{y,fi}$: Radio de giro

$L_{k,y}$: 1627.00 mm
 $i_{y,fi}$: 278.28 mm

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.340 

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$: 9.38 MPa
 $\sigma_{m,y,d,fi}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 238.27 kN·m

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{y,d}^-$: 0.00 kN·m
 $W_{el,y,fi}$: 25400.76 cm³

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \frac{27.60}{\quad} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\quad}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \frac{\text{Duración media}}{\quad}$$

$$\text{Clase}^- : \frac{\text{Permanente}}{\quad}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.00}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \frac{1.00}{\quad}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{\quad}$$

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : \frac{0.003}{\quad}$$



El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,z,d,fi}^+ : \frac{0.00}{\quad} \text{ MPa}$$

$$\sigma_{m,z,d,fi}^- : \frac{0.08}{\quad} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{z,d}^+ : \frac{0.00}{\quad} \text{ kN}\cdot\text{m}$$

$$M_{z,d}^- : \frac{0.35}{\quad} \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,z,fi} : \frac{4321.29}{\quad} \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,z,d,fi} : \frac{30.36}{\quad} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\quad}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \frac{\text{Permanente}}{\quad}$$

$$\text{Clase}^- : \frac{\text{Duración media}}{\quad}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.10}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción	h_{fi} :	<u>164.00</u>	mm
$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material	$\gamma_{M,fi}$:	<u>1.00</u>	
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	k_{fi} :	<u>1.15</u>	

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : \underline{0.002} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por: $\sigma_{y,d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo	$V_{y,d}$:	<u>0.42</u>	kN
A_{fi} : Área de la sección transversal	A_{fi} :	<u>1580.96</u>	cm ²
k_{cr} : Factor que tiene en cuenta la influencia de las fendas	k_{cr} :	<u>0.67</u>	
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi}$:	<u>3.11</u>	MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi}$:	<u>1.00</u>	
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k}$:	<u>2.70</u>	MPa
$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material	$\gamma_{M,fi}$:	<u>1.00</u>	
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	k_{fi} :	<u>1.15</u>	

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : \underline{0.053} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por: $\sigma_{z,d,fi}$: 0.16 MPa

Donde:

V_d : Cortante de cálculo	$V_{d,d} :$ <u>11.58</u> kN
A_{fi} : Área de la sección transversal	$A_{fi} :$ <u>1580.96</u> cm ²
k_{cr} : Factor que tiene en cuenta la influencia de las fendas	$k_{cr} :$ <u>0.67</u>
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi} :$ <u>3.11</u> MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi} :$ <u>1.00</u>
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k} :$ <u>2.70</u> MPa
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi} :$ <u>1.00</u>
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	$k_{fi} :$ <u>1.15</u>

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM.

Donde:

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:	$\sigma_{tor,d,fi} :$ <u>0.00</u> MPa
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Donde:

$M_{x,d}$: Momento torsor de cálculo	$M_{x,d} :$ <u>0.00</u> kN·m
$W_{tor,fi}$: Modulo resistente a torsión	$W_{tor,fi} :$ <u>7840.30</u> cm ³
$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección	$k_{shape,fi} :$ <u>1.88</u>

Donde:

$b_{max,fi}$: Ancho mayor de la sección transversal	$b_{max,fi} :$ <u>964.00</u> mm
$b_{min,fi}$: Ancho menor de la sección transversal	$b_{min,fi} :$ <u>164.00</u> mm
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi} :$ <u>3.11</u> MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi} :$ <u>1.00</u>
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k} :$ <u>2.70</u> MPa
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi} :$ <u>1.00</u>
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	$k_{fi} :$ <u>1.15</u>

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.342 \quad \checkmark$$

$$\sigma : 0.241 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 9.38 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 238.27 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.35 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : 0.70$$

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay interacción entre axil de tracción y momento flector para ninguna combinación.

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N16, para la combinación de acciones PP+CM+0.6·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : 0.342 \quad \checkmark$$

$$\sigma : 0.241 \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.342 \quad \checkmark$$

$$\sigma : 0.241 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : 0.16 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 9.38 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 238.27 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.35 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : 27.60 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$k_{c,fi}$: Factor de inestabilidad

$$h_{fi} : \underline{164.00} \text{ mm}$$

$$\sigma_{M,fi} : \underline{1.00}$$

$$k_{fi} : \underline{1.15}$$

$$k_m : \underline{0.70}$$

$$k_{c,y,fi} : \underline{1.00}$$

$$k_{c,z,fi} : \underline{0.97}$$

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : \underline{0.002} \quad \checkmark$$

$$\sigma : \underline{0.053} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d,fi} : \underline{0.01} \text{ MPa}$$

$$\sigma_{z,d,fi} : \underline{0.16} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{0.42} \text{ kN}$$

$$V_{z,d} : \underline{11.58} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\sigma_{tor,y,d,fi} : \underline{0.00} \text{ MPa}$$

$$\sigma_{tor,z,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.00} \text{ kN·m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,y,fi} : \underline{46085.65} \text{ cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \text{ cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

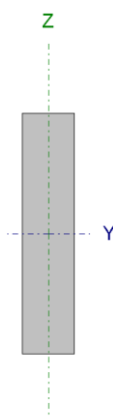
$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$f_{v,k}$: 2.70 MPa

$\gamma_{M,fi}$: 1.00

k_{fi} : 1.15

Perfil: V-1020x220 Material: Madera (GL24h)							
	Nudos		Longitud (m)	Características mecánicas			
	Inicial	Final		Área (cm²)	I _y ⁽¹⁾ (cm4)	I _z ⁽¹⁾ (cm4)	I _t ⁽²⁾ (cm4)
	N19	N21	1.627	2244.00	1945548.00	90508.00	311413.34
	Notas: ⁽¹⁾ Inercia respecto al eje indicado ⁽²⁾ Momento de inercia a torsión uniforme						
		Pandeo		Pandeo lateral			
		Plano XY	Plano XZ	Ala sup.	Ala inf.		
	η	1.00	1.00	0.00	0.00		
	L _K	1.627	1.627	0.000	0.000		
	C ₁	-		1.000			
	Notación: η: Coeficiente de pandeo L _K : Longitud de pandeo (m) C ₁ : Factor de modificación para el momento crítico						
Situación de incendio							
Resistencia requerida: R30							

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
 $1.35 \cdot PP + 1.35 \cdot CM + 1.05 \cdot Q + 1.5 \cdot N$.

Donde:

 $\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.00 \text{ MPa}$$

Donde:

 $N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.99 \text{ kN}$$

 A : Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

 $f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 11.88 \text{ MPa}$$

Donde:

 k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

 k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

 $f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

 γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma : 0.002 \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma : 0.002 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5-V.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : 0.04 \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : 9.56 \quad \text{kN}$$

A: Área de la sección transversal

$$A : 2244.00 \quad \text{cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : 17.28 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_{c,z} : 0.99$$

Donde:

$$k_z : 0.59$$

Donde:

γ_c : Factor asociado a la rectitud de las piezas

$$\gamma_c : 0.10$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : 0.41$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : 9400.00 \quad \text{MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : 25.62$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : 1627.00 \quad \text{mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.825 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 12.67 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 483.35 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.006 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$: 0.00 MPa

$\sigma_{m,z,d}^-$: 0.12 MPa

Donde:

M_d : Momento flector de cálculo

$M_{z,d}^+$: 0.00 kN·m

$M_{z,d}^-$: 0.95 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,z,d}^+$: 12.67 MPa

$f_{m,z,d}^-$: 19.01 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.60

k_{mod}^- : 0.90

Donde:

Clase de duración de la carga

Clase⁺ : Permanente

Clase⁻ : Corta duración

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.006} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N19, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{1.26} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.240} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N21, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.42} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{z,d} : \underline{41.63} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

$\tau_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : 0.02 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la sección transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la sección transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexión esviada - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.828 \quad \checkmark$$

$$\sigma : 0.582 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,d} : 12.67 \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{483.35} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.66} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \text{ MPa}$$

$$f_{m,z,d} : \underline{16.90} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \underline{1.25}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.828} \quad \checkmark$$

$$\sigma : \underline{0.582} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{0.48} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{12.67} \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{483.35} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{-0.66} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \frac{10.56}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\quad}$$

k_h : Factor de altura, dado por:

$$k_h : \frac{1.00}{\quad}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\quad} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{15.36}{\quad} \text{ MPa}$$

$$f_{m,z,d} : \frac{16.90}{\quad} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\quad}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\quad} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\quad}$$

$$k_{h,z} : \frac{1.10}{\quad}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\quad} \text{ mm}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\quad}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\quad}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.5 \cdot Q + 0.9 \cdot V + 0.75 \cdot N$.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.801}{\quad} \quad \checkmark$$

$$\sigma : \frac{0.564}{\quad} \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\eta : \underline{0.802} \quad \checkmark$$

$$\eta : \underline{0.565} \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.02} \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{5.05} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{13.77} \quad \text{MPa}$$

$$\sigma_{m,z,d} : \underline{0.11} \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{525.44} \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.89} \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \quad \text{cm}^3$$

$$W_{el,z} : \underline{8228.00} \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{17.28} \quad \text{MPa}$$

$$f_{m,z,d} : \underline{19.01} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.005}{}$$

$$\eta : \frac{0.241}{}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N21, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.42}{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \frac{0.77}{kN}$$

$$V_{z,d} : \frac{41.63}{kN}$$

$$A : \frac{2244.00}{cm^2}$$

$$k_{cr} : \frac{0.67}{}$$

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

W_{tor} : Modulo resistente a torsión

k_{shape} : Factor cuyo valor depende del tipo de sección

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \frac{0.01}{kN \cdot m}$$

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

$$k_{shape} : \frac{1.70}{}$$

$$f_{v,d} : \frac{1.73}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

η_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \frac{0.80}{}$$

$$f_{v,k} : \frac{2.70}{MPa}$$

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.26 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d,fi} : 18.98 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de compresión.

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : 0.322 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión: $\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$	8.89	MPa
$\sigma_{m,y,d,fi}^-$	0.00	MPa

Donde:

 M_d : Momento flector de cálculo

$M_{y,d}^+$	225.85	kN·m
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 $W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{y,d}^-$	0.00	kN·m
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 $f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$W_{el,y,fi}$	25400.76	cm ³
$f_{m,y,d,fi}$	27.60	MPa

Donde:

 $k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$	1.00
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Donde:

Clase de duración de la carga

Clase⁺: Duración media

Clase de servicio

Clase⁻: Permanente $f_{m,k}$: Resistencia característica a flexión

Clase: 2

 $k_{h,fi}$: Factor de altura, dado por:

$f_{m,k}$	24.00	MPa
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Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$k_{h,fi}$	1.00
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 $\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi}$	1.00
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 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi}	1.15
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Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ	0.003	✓
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El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión: $\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d,fi}^+$	0.00	MPa
$\sigma_{m,z,d,fi}^-$	0.08	MPa

Donde:

 M_d : Momento flector de cálculo

$M_{z,d}^+$	0.00	kN·m
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 $W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{z,d}^-$	0.33	kN·m
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 $f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$W_{el,z,fi}$	4321.29	cm ³
$f_{m,z,d,fi}$	30.36	MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

Donde:

Clase de duración de la carga

Clase⁺ : Permanente

Clase de servicio

Clase⁻ : Duración media

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,fi}$: 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

h_{fi} : 164.00 mm

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.002 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo

V_d : 0.39 kN

A_{fi} : Área de la sección transversal

A_{fi} : 1580.96 cm²

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

k_{cr} : 0.67

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$f_{v,d,fi}$: 3.11 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

$f_{v,k}$: Resistencia característica a cortante

$f_{v,k}$: 2.70 MPa

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.089 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N21, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{d,fi} : \underline{0.27} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{d,d} : \underline{19.41} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\sigma_{tor,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.01} \text{ kN·m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,fi} : \underline{7840.30} \text{ cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

Donde:

$b_{max,fi}$: Ancho mayor de la sección transversal

$$b_{max,fi} : \underline{964.00} \text{ mm}$$

$b_{min,fi}$: Ancho menor de la sección transversal

$$b_{min,fi} : \underline{164.00} \text{ mm}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : \underline{0.324} \quad \checkmark$$

$$\sigma : \underline{0.228} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : \underline{8.89} \quad \text{MPa}$$

$$\sigma_{m,z,d,fi} : \underline{0.08} \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{225.85} \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.33} \quad \text{kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : \underline{25400.76} \quad \text{cm}^3$$

$$W_{el,z,fi} : \underline{4321.29} \quad \text{cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \underline{27.60} \quad \text{MPa}$$

$$f_{m,z,d,fi} : \underline{30.36} \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \quad \text{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : \underline{1.00}$$

$$k_{h,z,fi} : \underline{1.10}$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.324} \quad \checkmark$$

$$\sigma : 0.228 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N19, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d,fi} : 0.00 \quad \text{MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.26 \quad \text{kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \quad \text{cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 8.89 \quad \text{MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 225.85 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : -0.33 \quad \text{kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \quad \text{cm}^3$$

$$W_{el,z,fi} : 4321.29 \quad \text{cm}^3$$

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d,fi} : 18.98 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \quad \text{MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \quad \text{MPa}$$

$$f_{m,z,d,fi} : 30.36 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \quad \text{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$$h_{fi} : 164.00 \quad \text{mm}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

La comprobación no procede, ya que la barra no esta sometida a flexión y compresión combinadas.

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\tau : \underline{0.002} \quad \checkmark$$

$$\tau : \underline{0.089} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N21, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\tau_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\tau_{y,d,fi} : \underline{0.01} \quad \text{MPa}$$

$$\tau_{z,d,fi} : \underline{0.27} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{0.39} \quad \text{kN}$$

$$V_{z,d} : \underline{19.41} \quad \text{kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$\tau_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,y,d,fi} : \underline{0.00} \quad \text{MPa}$$

$$\tau_{tor,z,d,fi} : \underline{0.00} \quad \text{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.01} \quad \text{kN}\cdot\text{m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,y,fi} : \underline{46085.65} \quad \text{cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \quad \text{cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

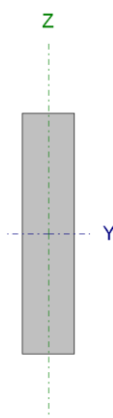
$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

Perfil: V-1020x220 Material: Madera (GL24h)							
	Nudos		Longitud (m)	Características mecánicas			
	Inicial	Final		Área (cm²)	I _y ⁽¹⁾ (cm4)	I _z ⁽¹⁾ (cm4)	I _t ⁽²⁾ (cm4)
	N11	N13	1.627	2244.00	1945548.00	90508.00	311413.34
	Notas: ⁽¹⁾ Inercia respecto al eje indicado ⁽²⁾ Momento de inercia a torsión uniforme						
		Pandeo		Pandeo lateral			
		Plano XY	Plano XZ	Ala sup.	Ala inf.		
	η	1.00	1.00	0.00	0.00		
	L _K	1.627	1.627	0.000	0.000		
	C ₁	-		1.000			
	Notación: η: Coeficiente de pandeo L _K : Longitud de pandeo (m) C ₁ : Factor de modificación para el momento crítico						
Situación de incendio							
Resistencia requerida: R30							

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
 $1.35 \cdot PP + 1.35 \cdot CM + 1.05 \cdot Q + 1.5 \cdot N$.

Donde:

 $\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.00 \text{ MPa}$$

Donde:

 $N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.46 \text{ kN}$$

 A : Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

 $f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 11.88 \text{ MPa}$$

Donde:

 k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

 k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

 $f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

 γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma : \underline{0.003} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma : \underline{0.003} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5-V.

Donde:

$N_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$N_{c,0,d} : \underline{0.05} \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{11.64} \quad \text{kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_c : \underline{0.99}$$

Donde:

$$k_z : \underline{0.59}$$

Donde:

γ_c : Factor asociado a la rectitud de las piezas

$$\gamma_c : \underline{0.10}$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : \underline{0.41}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : \underline{9400.00} \quad \text{MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : \underline{25.62}$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : \underline{1627.00} \quad \text{mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.825



El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 12.67 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 483.38 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.006 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$: 0.11 MPa

$\sigma_{m,z,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{z,d}^+$: 0.92 kN·m

$M_{z,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,z,d}^+$: 19.01 MPa

$f_{m,z,d}^-$: 12.67 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.90

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

Clase⁺ : Corta duración

Clase⁻ : Permanente

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.006} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N11, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{y,d} : \underline{1.24} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.90}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.241} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N11, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.42} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{z,d} : \underline{41.68} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.80}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau : \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo p simo se produce para la combinaci n de acciones
 $PP+1.35 \cdot CM+1.05 \cdot Q+1.5 \cdot V+0.75 \cdot N$.

Donde:

$\tau_{tor,d}$: Tensi n de c lculo a torsi n, dada por:

$$\tau_{tor,d} : \underline{0.00} \quad \text{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de c lculo

$$M_{x,d} : \underline{0.03} \quad \text{kN} \cdot \text{m}$$

W_{tor} : Modulo resistente a torsi n

$$W_{tor} : \underline{14568.05} \quad \text{cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de secci n

$$k_{shape} : \underline{1.70}$$

Donde:

b_{max} : Ancho mayor de la secci n transversal

$$b_{max} : \underline{1020.00} \quad \text{mm}$$

b_{min} : Ancho menor de la secci n transversal

$$b_{min} : \underline{220.00} \quad \text{mm}$$

$f_{v,d}$: Resistencia de c lculo a cortante, dada por:

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificaci n por la duraci n de la carga (Corta duraci n) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{v,k}$: Resistencia caracter stica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a flexi n esviada - Temperatura ambiente (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexi n esviada

$$\tau : \underline{0.828} \quad \checkmark$$

$$\tau : \underline{0.582} \quad \checkmark$$

El esfuerzo solicitante de c lculo p simo se produce en el nudo N13, para la combinaci n de acciones
 $1.35 \cdot PP+1.35 \cdot CM+1.5 \cdot Q$.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \frac{12.67}{} \text{ MPa}$$
$$\sigma_{m,z,d} : \frac{0.08}{} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \frac{483.38}{} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \frac{0.66}{} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \frac{38148.00}{} \text{ cm}^3$$

$$W_{el,z} : \frac{8228.00}{} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{15.36}{} \text{ MPa}$$

$$f_{m,z,d} : \frac{16.90}{} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{}$$

$$k_{h,z} : \frac{1.10}{}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \frac{1.25}{}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \frac{0.828}{} \checkmark$$

$$\sigma : \frac{0.582}{} \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \frac{0.00}{} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \frac{0.20}{} \text{ kN}$$

A : Área de la sección transversal

$$A : \frac{2244.00}{} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \frac{12.67}{} \text{ MPa}$$

$$\sigma_{m,z,d} : \frac{0.08}{} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \frac{483.38}{} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \frac{0.66}{} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \frac{38148.00}{} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$W_{el,z} : \frac{8228.00}{\text{cm}^3}$$
$$f_{t,0,d} : \frac{10.56}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{1.00}$$

k_h : Factor de altura, dado por:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\text{MPa}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{1.25}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{15.36}{\text{MPa}}$$

$$f_{m,z,d} : \frac{16.90}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{1.00}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{1.10}$$

$$k_{h,z} : \frac{1.10}{1.10}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\text{mm}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{1.25}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{0.70}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones $1.35 \cdot PP + 1.35 \cdot CM + 1.5 \cdot Q + 0.9 \cdot V + 0.75 \cdot N$.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.801}{\text{✓}}$$

$$\sigma : \frac{0.563}{\text{✓}}$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.803 \quad \checkmark$$

$$\sigma : 0.565 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : 0.03 \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : 6.67 \quad \text{kN}$$

A : Área de la sección transversal

$$A : 2244.00 \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : 13.77 \quad \text{MPa}$$

$$\sigma_{m,z,d} : 0.10 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 525.43 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : 0.83 \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : 38148.00 \quad \text{cm}^3$$

$$W_{el,z} : 8228.00 \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : 17.28 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : 17.28 \quad \text{MPa}$$

$$f_{m,z,d} : 19.01 \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : 1.00$$

$$k_{h,z} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{\text{mm}}$$

$$\eta_M : \frac{1.25}{\text{mm}}$$

$$k_m : \frac{0.70}{\text{mm}}$$

$$k_{c,y} : \frac{1.00}{\text{mm}}$$

$$k_{c,z} : \frac{0.99}{\text{mm}}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.005}{\text{mm}}$$

$$\eta : \frac{0.241}{\text{mm}}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N11, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{\text{MPa}}$$

$$\sigma_{z,d} : \frac{0.42}{\text{MPa}}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \frac{0.77}{\text{kN}}$$

$$V_{z,d} : \frac{41.68}{\text{kN}}$$

A : Área de la sección transversal

$$A : \frac{2244.00}{\text{cm}^2}$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \frac{0.67}{\text{mm}}$$

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\sigma_{tor,y,d} : \frac{0.00}{\text{MPa}}$$

$$\sigma_{tor,z,d} : \frac{0.00}{\text{MPa}}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \frac{0.01}{\text{kN}\cdot\text{m}}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor,y} : \frac{67542.77}{\text{cm}^3}$$

$$W_{tor,z} : \frac{14568.05}{\text{cm}^3}$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : \frac{1.70}{\text{mm}}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \frac{1.73}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{\text{mm}}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \frac{2.70}{\text{MPa}}$$

η_M : Coeficiente parcial para las propiedades del material

$$\eta_M : \frac{1.25}{\text{mm}}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por: $\sigma_{t,0,d,fi} : 0.00$ MPa

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$N_{t,0,d} : 0.11$ kN

A_{fi} : Área de la sección transversal

$A_{fi} : 1580.96$ cm²

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$f_{t,0,d,fi} : 18.98$ MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi} : 1.00$

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,fi} : 1.00$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$f_{t,0,k} : 16.50$ MPa

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$\gamma_{M,fi} : 1.00$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$k_{fi} : 1.15$

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de compresión.

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : 0.322 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi}^+ : \frac{8.89}{\text{MPa}}$$

$$\sigma_{m,y,d,fi}^- : \frac{0.00}{\text{MPa}}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d}^+ : \frac{225.90}{\text{kN}\cdot\text{m}}$$

$$M_{y,d}^- : \frac{0.00}{\text{kN}\cdot\text{m}}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : \frac{25400.76}{\text{cm}^3}$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \frac{27.60}{\text{MPa}}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{\text{MPa}}$$

Donde:

Clase de duración de la carga

$$\text{Clase}^+ : \text{Duración media}$$

$$\text{Clase}^- : \text{Permanente}$$

Clase de servicio

$$\text{Clase} : \frac{2}{\text{MPa}}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.00}{\text{MPa}}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \frac{1.00}{\text{MPa}}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{\text{MPa}}$$

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : \frac{0.003}{\text{MPa}}$$



El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,z,d,fi}^+ : \frac{0.08}{\text{MPa}}$$

$$\sigma_{m,z,d,fi}^- : \frac{0.00}{\text{MPa}}$$

Donde:

M_d : Momento flector de cálculo

$$M_{z,d}^+ : \frac{0.33}{\text{kN}\cdot\text{m}}$$

$$M_{z,d}^- : \frac{0.00}{\text{kN}\cdot\text{m}}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,z,fi} : \frac{4321.29}{\text{cm}^3}$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,z,d,fi} : \frac{30.36}{\text{MPa}}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

Donde:

Clase de duración de la carga

Clase⁺ : Duración media

Clase de servicio

Clase⁻ : Permanente

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,fi}$: 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

h_{fi} : 164.00 mm

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$\alpha_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.002 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo

$V_{d,i}$: 0.39 kN

A_{fi} : Área de la sección transversal

A_{fi} : 1580.96 cm²

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

k_{cr} : 0.67

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$f_{v,d,fi}$: 3.11 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

$f_{v,k}$: Resistencia característica a cortante

$f_{v,k}$: 2.70 MPa

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$\alpha_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : 0.089 \quad \checkmark$$

El esfuerzo solicitante de cálculo p simo se produce en el nudo N11, para la combinaci n de acciones PP+CM+0.6 Q.

Donde:

$\sigma_{d,fi}$: Tensi n de c lculo a cortante, dada por:

$$\sigma_{d,fi} : 0.28 \quad \text{MPa}$$

Donde:

V_d : Cortante de c lculo

$$V_{d,d} : 19.44 \quad \text{kN}$$

A_{fi} :  rea de la secci n transversal

$$A_{fi} : 1580.96 \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : 0.67$$

$f_{v,d,fi}$: Resistencia de c lculo a cortante, dada por:

$$f_{v,d,fi} : 3.11 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificaci n para la duraci n de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{v,k}$: Resistencia caracter stica a cortante

$$f_{v,k} : 2.70 \quad \text{MPa}$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de correcci n para las propiedades de la madera en situaci n de incendio

$$k_{fi} : 1.15$$

Resistencia a torsi n - Situaci n de incendio (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de c lculo p simo se produce para la combinaci n de acciones PP+CM+0.6 Q.

Donde:

$\sigma_{tor,d,fi}$: Tensi n de c lculo a torsi n, dada por:

$$\sigma_{tor,d,fi} : 0.00 \quad \text{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de c lculo

$$M_{x,d} : 0.01 \quad \text{kN}\cdot\text{m}$$

$W_{tor,fi}$: Modulo resistente a torsi n

$$W_{tor,fi} : 7840.30 \quad \text{cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de secci n

$$k_{shape,fi} : 1.88$$

Donde:

$b_{max,fi}$: Ancho mayor de la secci n transversal

$$b_{max,fi} : 964.00 \quad \text{mm}$$

$b_{min,fi}$: Ancho menor de la secci n transversal

$$b_{min,fi} : 164.00 \quad \text{mm}$$

$f_{v,d,fi}$: Resistencia de c lculo a cortante, dada por:

$$f_{v,d,fi} : 3.11 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificaci n para la duraci n de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{v,k}$: Resistencia caracter stica a cortante

$$f_{v,k} : 2.70 \quad \text{MPa}$$

$\eta_{M,fi}$: Coeficiente parcial para las propiedades del material

$\eta_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

η : 0.324 ✓

η : 0.228 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}$: 8.89 MPa

$\sigma_{m,z,d,fi}$: 0.08 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}$: 225.90 kN·m

$M_{z,d}$: 0.33 kN·m

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$W_{el,y,fi}$: 25400.76 cm³

$W_{el,z,fi}$: 4321.29 cm³

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d,fi}$: 27.60 MPa

$f_{m,z,d,fi}$: 30.36 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$k_{mod,fi}$: 1.00

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: Factor de altura, dado por:

$k_{h,y,fi}$: 1.00

$k_{h,z,fi}$: 1.10

$\eta_{M,fi}$: Coeficiente parcial para las propiedades del material

$\eta_{M,fi}$: 1.00

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_{fi} : 1.15

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_m : 0.70

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

η : 0.324 ✓

$$\sigma : 0.228 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N13, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{t,0,d,fi}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 0.11 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 8.89 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 225.90 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.33 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{t,0,d,fi}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d,fi} : 18.98 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$\eta_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$h_{fi} : \underline{164.00} \text{ mm}$$

$$\eta_{M,fi} : \underline{1.00}$$

$$k_{fi} : \underline{1.15}$$

$$k_m : \underline{0.70}$$

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

La comprobación no procede, ya que la barra no esta sometida a flexión y compresión combinadas.

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\tau : \underline{0.002} \quad \checkmark$$

$$\tau : \underline{0.089} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N11, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\tau_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\tau_{y,d,fi} : \underline{0.01} \text{ MPa}$$

$$\tau_{z,d,fi} : \underline{0.28} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{0.39} \text{ kN}$$

$$V_{z,d} : \underline{19.44} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$\tau_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,y,d,fi} : \underline{0.00} \text{ MPa}$$

$$\tau_{tor,z,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.01} \text{ kN}\cdot\text{m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,y,fi} : \underline{46085.65} \text{ cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \text{ cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{v,k}$: Resistencia característica a cortante

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$k_{mod,fi}$: 1.00

$f_{v,k}$: 2.70 MPa

$\gamma_{M,fi}$: 1.00

k_{fi} : 1.15

Perfil: V-1020x220
Material: Madera (GL24h)

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\sigma_{t,0,d} : 0.004 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : 0.04 \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : 9.57 \text{ kN}$$

A: Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : 11.88 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

k_h : Factor de altura, dado por:

$$k_h : 1.00$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : 16.50 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
1.35·PP+1.35·CM+1.05·Q+1.5·N.

Donde:

$N_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$N_{c,0,d} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{0.98} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_c : \underline{0.99}$$

Donde:

$$k_z : \underline{0.59}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\varphi_{rel,z}$: Esbeltez relativa, dada por:

$$\varphi_{rel,z} : \underline{0.41}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : \underline{9400.00} \text{ MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : \underline{25.62}$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : \underline{1627.00} \text{ mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.824



El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 12.66 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 483.00 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.006 ✓

El esfuerzo solicitante de cálculo p simo se produce en el nudo N20, para la combinaci n de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el m dulo resistente el stico de la secci n respecto al eje z es inferior o igual al m dulo resistente el stico respecto al eje y.

Resistencia de la secci n transversal a flexi n:

$\sigma_{m,d}$: Tensi n de c lculo a flexi n, dada por:

$\sigma_{m,z,d}^+$: 0.00 MPa

$\sigma_{m,z,d}^-$: 0.12 MPa

Donde:

M_d : Momento flector de c lculo

$M_{z,d}^+$: 0.00 kN·m

$M_{z,d}^-$: 0.95 kN·m

W_{el} : M dulo resistente el stico de la secci n transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de c lculo a flexi n, dada por:

$f_{m,z,d}^+$: 12.67 MPa

$f_{m,z,d}^-$: 19.01 MPa

Donde:

k_{mod} : Factor de modificaci n para la duraci n de la carga y el contenido de humedad

k_{mod}^+ : 0.60

k_{mod}^- : 0.90

Donde:

Clase de duraci n de la carga

Clase⁺ : Permanente

Clase⁻ : Corta duraci n

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia caracter stica a flexi n

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexi n) o anchos (tracci n) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexi n o mayor dimensi n de la secci n en tracci n

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.006} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N20, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{y,d} : \underline{1.27} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.90}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.240} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N22, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.41} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$V_{z,d} : \underline{41.58} \quad \text{kN}$$

$$A : \underline{2244.00} \quad \text{cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

γ_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \underline{0.80}$$

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau : 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+1.35·CM+1.5·V.

Donde:

$\tau_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : 0.03 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la sección transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la sección transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexión esviada - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.828 \quad \checkmark$$

$$\sigma : 0.582 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,d} : 12.66 \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{483.00} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.66} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \text{ MPa}$$

$$f_{m,z,d} : \underline{16.90} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \underline{1.25}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \underline{0.802} \quad \checkmark$$

$$\sigma : \underline{0.565} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.02} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{5.06} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{13.76} \text{ MPa}$$

$$\sigma_{m,z,d} : \underline{0.11} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{525.09} \text{ kN}\cdot\text{m}$$

$$M_{z,d} : \underline{-0.89} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \text{ cm}^3$$

$$W_{el,z} : \underline{8228.00} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \frac{11.88}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_h : \frac{1.00}{\text{MPa}}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\text{MPa}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{17.28}{\text{MPa}}$$

$$f_{m,z,d} : \frac{19.01}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\text{MPa}}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\text{MPa}}$$

$$k_{h,z} : \frac{1.10}{\text{MPa}}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\text{mm}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\text{MPa}}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.828}{\text{MPa}} \quad \checkmark$$

$$\sigma : \frac{0.582}{\text{MPa}} \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : \underline{0.828} \quad \checkmark$$

$$\sigma : \underline{0.582} \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.00} \quad \text{MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{0.47} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \underline{12.66} \quad \text{MPa}$$

$$\sigma_{m,z,d} : \underline{0.08} \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{483.00} \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : \underline{0.66} \quad \text{kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : \underline{38148.00} \quad \text{cm}^3$$

$$W_{el,z} : \underline{8228.00} \quad \text{cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{15.36} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \underline{15.36} \quad \text{MPa}$$

$$f_{m,z,d} : \underline{16.90} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \quad \text{MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \underline{1.00}$$

$$k_{h,z} : \underline{1.10}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.004}{\checkmark}$$

$$\eta : \frac{0.240}{\checkmark}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N22, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.41}{MPa}$$

Donde:

V_d : Cortante de cálculo

A : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \frac{0.77}{kN}$$

$$V_{z,d} : \frac{41.58}{kN}$$

$$A : \frac{2244.00}{cm^2}$$

$$k_{cr} : \frac{0.67}{}$$

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

W_{tor} : Modulo resistente a torsión

k_{shape} : Factor cuyo valor depende del tipo de sección

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \frac{0.00}{kN \cdot m}$$

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

$$k_{shape} : \frac{1.70}{}$$

$$f_{v,d} : \frac{1.73}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$f_{v,k}$: Resistencia característica a cortante

η_M : Coeficiente parcial para las propiedades del material

$$k_{mod} : \frac{0.80}{}$$

$$f_{v,k} : \frac{2.70}{MPa}$$

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de tracción.

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < 0.001 \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : 0.25 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : 27.60 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

$k_{c,fi}$: Factor de inestabilidad, dado por:

$$k_{c,z,fi} : 0.97$$

Donde:

$$k_{z,fi} : 0.67$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : 0.10$$

$\lambda_{rel,z,fi}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z,fi} : 0.55$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{z,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{z,fi}$: 34.37

Donde:

$L_{k,z}$: Longitud de pandeo de la barra
 $i_{z,fi}$: Radio de giro

$L_{k,z}$: 1627.00 mm
 $i_{z,fi}$: 47.34 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y,fi}$: Esbeltez relativa, dada por:

$\lambda_{rel,y,fi}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{y,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{y,fi}$: 5.85

Donde:

$L_{k,y}$: Longitud de pandeo de la barra
 $i_{y,fi}$: Radio de giro

$L_{k,y}$: 1627.00 mm
 $i_{y,fi}$: 278.28 mm

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.322 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$: 8.88 MPa
 $\sigma_{m,y,d,fi}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 225.60 kN·m

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$M_{y,d}^-$: 0.00 kN·m
 $W_{el,y,fi}$: 25400.76 cm³

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \frac{27.60}{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{MPa}$$

Donde:

Clase de duración de la carga

$$Clase^+ : \frac{Duración\ media}{MPa}$$

$$Clase^- : \frac{Permanente}{MPa}$$

$$Clase : \frac{2}{MPa}$$

Clase de servicio

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.00}{MPa}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\gamma_{M,fi} : \frac{1.00}{MPa}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \frac{1.15}{MPa}$$

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

$$\sigma : \frac{0.003}{MPa}$$



El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,z,d,fi}^+ : \frac{0.00}{MPa}$$

$$\sigma_{m,z,d,fi}^- : \frac{0.08}{MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{z,d}^+ : \frac{0.00}{kN \cdot m}$$

$$M_{z,d}^- : \frac{0.33}{kN \cdot m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,z,fi} : \frac{4321.29}{cm^3}$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,z,d,fi} : \frac{30.36}{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \frac{1.00}{MPa}$$

Donde:

Clase de duración de la carga

$$Clase^+ : \frac{Permanente}{MPa}$$

$$Clase^- : \frac{Duración\ media}{MPa}$$

$$Clase : \frac{2}{MPa}$$

Clase de servicio

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,fi} : \frac{1.10}{MPa}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción
 $\eta_{M,fi}$: Coeficiente parcial para las propiedades del material
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

h_{fi} : 164.00 mm
 $\eta_{M,fi}$: 1.00
 k_{fi} : 1.15

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.002 ✓

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{y,d,fi}$: 0.01 MPa

Donde:

V_d : Cortante de cálculo
 A_{fi} : Área de la sección transversal
 k_{cr} : Factor que tiene en cuenta la influencia de las fendas

V_{d} : 0.39 kN
 A_{fi} : 1580.96 cm²
 k_{cr} : 0.67
 $f_{v,d,fi}$: 3.11 MPa

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad
 $f_{v,k}$: Resistencia característica a cortante
 $\eta_{M,fi}$: Coeficiente parcial para las propiedades del material
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$k_{mod,fi}$: 1.00
 $f_{v,k}$: 2.70 MPa
 $\eta_{M,fi}$: 1.00
 k_{fi} : 1.15

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

σ : 0.088 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N22, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$\sigma_{z,d,fi}$: 0.27 MPa

Donde:

V_d : Cortante de cálculo	$V_{z,d} :$ <u>19.37</u> kN
A_{fi} : Área de la sección transversal	$A_{fi} :$ <u>1580.96</u> cm ²
k_{cr} : Factor que tiene en cuenta la influencia de las fendas	$k_{cr} :$ <u>0.67</u>
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi} :$ <u>3.11</u> MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi} :$ <u>1.00</u>
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k} :$ <u>2.70</u> MPa
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi} :$ <u>1.00</u>
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	$k_{fi} :$ <u>1.15</u>

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM.

Donde:

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:	$\sigma_{tor,d,fi} :$ <u>0.00</u> MPa
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Donde:

$M_{x,d}$: Momento torsor de cálculo	$M_{x,d} :$ <u>0.00</u> kN·m
$W_{tor,fi}$: Modulo resistente a torsión	$W_{tor,fi} :$ <u>7840.30</u> cm ³
$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección	$k_{shape,fi} :$ <u>1.88</u>

Donde:

$b_{max,fi}$: Ancho mayor de la sección transversal	$b_{max,fi} :$ <u>964.00</u> mm
$b_{min,fi}$: Ancho menor de la sección transversal	$b_{min,fi} :$ <u>164.00</u> mm
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi} :$ <u>3.11</u> MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi} :$ <u>1.00</u>
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k} :$ <u>2.70</u> MPa
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi} :$ <u>1.00</u>
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	$k_{fi} :$ <u>1.15</u>

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\sigma : 0.324 \quad \checkmark$$

$$\sigma : 0.228 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 8.88 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 225.60 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.33 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\sigma_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : 0.70$$

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay interacción entre axil de tracción y momento flector para ninguna combinación.

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N20, para la combinación de acciones PP+CM+0.6·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : 0.324 \quad \checkmark$$

$$\sigma : 0.228 \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.324 \quad \checkmark$$

$$\sigma : 0.228 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : 0.25 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : 8.88 \text{ MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 225.60 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.33 \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$W_{el,y,fi} : 25400.76 \text{ cm}^3$$

$$W_{el,z,fi} : 4321.29 \text{ cm}^3$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : 27.60 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : 27.60 \text{ MPa}$$

$$f_{m,z,d,fi} : 30.36 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$\sigma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$k_{c,fi}$: Factor de inestabilidad

$$h_{fi} : \underline{164.00} \text{ mm}$$

$$\sigma_{M,fi} : \underline{1.00}$$

$$k_{fi} : \underline{1.15}$$

$$k_m : \underline{0.70}$$

$$k_{c,y,fi} : \underline{1.00}$$

$$k_{c,z,fi} : \underline{0.97}$$

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\sigma : \underline{0.002} \quad \checkmark$$

$$\sigma : \underline{0.088} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N22, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d,fi} : \underline{0.01} \text{ MPa}$$

$$\sigma_{z,d,fi} : \underline{0.27} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

A_{fi} : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$\sigma_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$V_{y,d} : \underline{0.39} \text{ kN}$$

$$V_{z,d} : \underline{19.37} \text{ kN}$$

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

$$k_{cr} : \underline{0.67}$$

$$\sigma_{tor,y,d,fi} : \underline{0.00} \text{ MPa}$$

$$\sigma_{tor,z,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$W_{tor,fi}$: Modulo resistente a torsión

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$M_{x,d} : \underline{0.00} \text{ kN·m}$$

$$W_{tor,y,fi} : \underline{46085.65} \text{ cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \text{ cm}^3$$

$$k_{shape,fi} : \underline{1.88}$$

$$f_{v,d,fi} : \underline{3.11} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{v,k}$: Resistencia característica a cortante

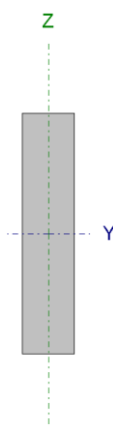
$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$f_{v,k}$: 2.70 MPa

$\gamma_{M,fi}$: 1.00

k_{fi} : 1.15

Perfil: V-1020x220 Material: Madera (GL24h)							
	Nudos		Longitud (m)	Características mecánicas			
	Inicial	Final		Área (cm²)	I _y ⁽¹⁾ (cm4)	I _z ⁽¹⁾ (cm4)	I _t ⁽²⁾ (cm4)
	N12	N14	1.627	2244.00	1945548.00	90508.00	311413.34
	Notas:						
	⁽¹⁾ Inercia respecto al eje indicado						
	⁽²⁾ Momento de inercia a torsión uniforme						
		Pandeo		Pandeo lateral			
		Plano XY	Plano XZ	Ala sup.	Ala inf.		
	η	1.00	1.00	0.00	0.00		
	L _K	1.627	1.627	0.000	0.000		
C ₁	-		1.000				
Notación:							
η: Coeficiente de pandeo							
L _K : Longitud de pandeo (m)							
C ₁ : Factor de modificación para el momento crítico							
Situación de incendio							
Resistencia requerida: R30							

Resistencia a tracción uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2)

Se debe satisfacer:

$$\eta : \underline{0.004} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+1.5·V.

Donde:

 $\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \underline{0.05} \text{ MPa}$$

Donde:

 $N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \underline{11.63} \text{ kN}$$

 A : Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

 $f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$f_{t,0,d} : \underline{11.88} \text{ MPa}$$

Donde:

 k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

 k_h : Factor de altura, dado por:

$$k_h : \underline{1.00}$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

 $f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \underline{16.50} \text{ MPa}$$

 γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a compresión uniforme paralela a la fibra - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < \underline{0.001} \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < \underline{0.001} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones
1.35·PP+1.35·CM+1.05·Q+1.5·N.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : \underline{0.00} \text{ MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : \underline{0.47} \text{ kN}$$

A: Área de la sección transversal

$$A : \underline{2244.00} \text{ cm}^2$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : \underline{17.28} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

k_c : Factor de inestabilidad, dado por:

$$k_c : \underline{0.99}$$

Donde:

$$k_z : \underline{0.59}$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : \underline{0.10}$$

$\lambda_{rel,z}$: Esbeltez relativa, dada por:

$$\lambda_{rel,z} : \underline{0.41}$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$$E_{0,05} : \underline{9400.00} \text{ MPa}$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : \underline{24.00} \text{ MPa}$$

λ_z : Esbeltez mecánica, dada por:

$$\lambda_z : \underline{25.62}$$

Donde:

$L_{k,z}$: Longitud de pandeo de la barra

$$L_{k,z} : \underline{1627.00} \text{ mm}$$

i_z : Radio de giro

i_z : 63.51 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y}$: Esbeltez relativa, dada por:

$\lambda_{rel,y}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra

$E_{0,05}$: 9400.00 MPa

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$f_{c,0,k}$: 24.00 MPa

λ_y : Esbeltez mecánica, dada por:

λ_y : 5.53

Donde:

$L_{k,y}$: Longitud de pandeo de la barra

$L_{k,y}$: 1627.00 mm

i_y : Radio de giro

i_y : 294.45 mm

Resistencia a flexión en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.824 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d}^+$: 12.66 MPa

$\sigma_{m,y,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 482.93 kN·m

$M_{y,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,y}$: 38148.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,y,d}^+$: 15.36 MPa

$f_{m,y,d}^-$: 11.52 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.80

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

$Clase^+$: Duración media

$Clase^-$: Permanente

Clase de servicio

$Clase$: 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.00

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a flexión en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.006 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+1.5·N.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d}^+$: 0.11 MPa

$\sigma_{m,z,d}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{z,d}^+$: 0.92 kN·m

$M_{z,d}^-$: 0.00 kN·m

W_{el} : Módulo resistente elástico de la sección transversal

$W_{el,z}$: 8228.00 cm³

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$f_{m,z,d}^+$: 19.01 MPa

$f_{m,z,d}^-$: 12.67 MPa

Donde:

k_{mod} : Factor de modificación para la duración de la carga y el contenido de humedad

k_{mod}^+ : 0.90

k_{mod}^- : 0.60

Donde:

Clase de duración de la carga

Clase⁺ : Corta duración

Clase⁻ : Permanente

Clase de servicio

Clase : 2

$f_{m,k}$: Resistencia característica a flexión

$f_{m,k}$: 24.00 MPa

k_h : Factor de altura, dado por:

k_h : 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

h : 220.00 mm

γ_M : Coeficiente parcial para las propiedades del material

γ_M : 1.25

Resistencia a cortante en el eje y - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.006} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en un punto situado a una distancia de 1.220 m del nudo N12, para la combinación de acciones 1.35·PP+1.35·CM+1.05·Q+0.9·V+1.5·N.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{1.25} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \underline{1.94} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.90}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a cortante en el eje z - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7)

Se debe satisfacer:

$$\sigma : \underline{0.240} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N12, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{z,d} : \underline{0.42} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{z,d} : \underline{41.61} \quad \text{kN}$$

A : Área de la sección transversal

$$A : \underline{2244.00} \quad \text{cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \underline{1.73} \quad \text{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \underline{0.80}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \underline{2.70} \quad \text{MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \underline{1.25}$$

Resistencia a torsión - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8)

Se debe satisfacer:

$$\tau < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo p simo se produce para la combinaci n de acciones
PP+CM+1.05·Q+1.5·V+0.75·N.

Donde:

$\tau_{tor,d}$: Tensi n de c lculo a torsi n, dada por:

$$\tau_{tor,d} : 0.00 \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de c lculo

$$M_{x,d} : 0.02 \text{ kN}\cdot\text{m}$$

W_{tor} : Modulo resistente a torsi n

$$W_{tor} : 14568.05 \text{ cm}^3$$

k_{shape} : Factor cuyo valor depende del tipo de secci n

$$k_{shape} : 1.70$$

Donde:

b_{max} : Ancho mayor de la secci n transversal

$$b_{max} : 1020.00 \text{ mm}$$

b_{min} : Ancho menor de la secci n transversal

$$b_{min} : 220.00 \text{ mm}$$

$f_{v,d}$: Resistencia de c lculo a cortante, dada por:

$$f_{v,d} : 1.94 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificaci n por la duraci n de la carga (Corta duraci n) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.90$$

$f_{v,k}$: Resistencia caracter stica a cortante

$$f_{v,k} : 2.70 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

Resistencia a flexi n esviada - Temperatura ambiente (Euroc digo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6)

Se debe satisfacer:

Resistencia a flexi n esviada

$$\eta : 0.828 \quad \checkmark$$

$$\eta : 0.582 \quad \checkmark$$

El esfuerzo solicitante de c lculo p simo se produce en el nudo N14, para la combinaci n de acciones
1.35·PP+1.35·CM+1.5·Q.

Donde:

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \frac{12.66}{} \text{ MPa}$$
$$\sigma_{m,z,d} : \frac{0.08}{} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \frac{482.93}{} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \frac{0.66}{} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \frac{38148.00}{} \text{ cm}^3$$

$$W_{el,z} : \frac{8228.00}{} \text{ cm}^3$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{15.36}{} \text{ MPa}$$

$$f_{m,z,d} : \frac{16.90}{} \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{} \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{}$$

$$k_{h,z} : \frac{1.10}{}$$

σ_M : Coeficiente parcial para las propiedades del material

$$\sigma_M : \frac{1.25}{}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{}$$

Resistencia a flexión y tracción axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3)

Se debe satisfacer:

Resistencia a flexión y tracción axial combinadas

$$\sigma : \frac{0.803}{} \quad \checkmark$$

$$\sigma : \frac{0.565}{} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q+0.9·V+0.75·N.

Donde:

$\sigma_{t,0,d}$: Tensión de cálculo a tracción paralela a la fibra, dada por:

$$\sigma_{t,0,d} : \frac{0.03}{} \text{ MPa}$$

Donde:

$N_{t,0,d}$: Tracción axial de cálculo paralela a la fibra

$$N_{t,0,d} : \frac{6.67}{} \text{ kN}$$

A : Área de la sección transversal

$$A : \frac{2244.00}{} \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : \frac{13.76}{} \text{ MPa}$$

$$\sigma_{m,z,d} : \frac{0.10}{} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \frac{524.97}{} \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$M_{z,d} : \frac{0.83}{} \text{ kN}\cdot\text{m}$$

$$W_{el,y} : \frac{38148.00}{} \text{ cm}^3$$

$f_{t,0,d}$: Resistencia de cálculo a tracción paralela a la fibra, dada por:

$$W_{el,z} : \frac{8228.00}{\text{cm}^3}$$
$$f_{t,0,d} : \frac{11.88}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\text{MPa}}$$
$$k_h : \frac{1.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$f_{t,0,k}$: Resistencia característica a tracción paralela a la fibra

$$f_{t,0,k} : \frac{16.50}{\text{MPa}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : \frac{17.28}{\text{MPa}}$$

$$f_{m,z,d} : \frac{19.01}{\text{MPa}}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Corta duración) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.90}{\text{MPa}}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \frac{24.00}{\text{MPa}}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : \frac{1.00}{\text{MPa}}$$

$$k_{h,z} : \frac{1.10}{\text{MPa}}$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

$$h : \frac{220.00}{\text{mm}}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : \frac{1.25}{\text{MPa}}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \frac{0.70}{\text{MPa}}$$

Resistencia a flexión y compresión axial combinadas - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\sigma : \frac{0.828}{\text{MPa}} \quad \checkmark$$

$$\sigma : \frac{0.582}{\text{MPa}} \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.828 \quad \checkmark$$

$$\sigma : 0.582 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$\sigma_{c,0,d}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d} : 0.00 \text{ MPa}$$

Donde:

$N_{c,0,d}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d} : 0.21 \text{ kN}$$

A : Área de la sección transversal

$$A : 2244.00 \text{ cm}^2$$

$\sigma_{m,d}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d} : 12.66 \text{ MPa}$$

$$\sigma_{m,z,d} : 0.08 \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : 482.93 \text{ kN}\cdot\text{m}$$

$$M_{z,d} : 0.66 \text{ kN}\cdot\text{m}$$

W_{el} : Módulo resistente elástico de la sección transversal

$$W_{el,y} : 38148.00 \text{ cm}^3$$

$$W_{el,z} : 8228.00 \text{ cm}^3$$

$f_{c,0,d}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d} : 15.36 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \text{ MPa}$$

γ_M : Coeficiente parcial para las propiedades del material

$$\gamma_M : 1.25$$

$f_{m,d}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d} : 15.36 \text{ MPa}$$

$$f_{m,z,d} : 16.90 \text{ MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : 0.80$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : 24.00 \text{ MPa}$$

k_h : Factor de altura, dado por:

$$k_{h,y} : 1.00$$

$$k_{h,z} : 1.10$$

Eje y:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h : Canto en flexión o mayor dimensión de la sección en tracción

η_M : Coeficiente parcial para las propiedades del material

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

k_c : Factor de inestabilidad

$$h : \frac{220.00}{mm}$$

$$\eta_M : \frac{1.25}{}$$

$$k_m : \frac{0.70}{}$$

$$k_{c,y} : \frac{1.00}{}$$

$$k_{c,z} : \frac{0.99}{}$$

Resistencia a cortante y torsor combinados - Temperatura ambiente (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros)

Se debe satisfacer:

$$\eta : \frac{0.004}{\checkmark}$$

$$\eta : \frac{0.240}{\checkmark}$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N12, para la combinación de acciones 1.35·PP+1.35·CM+1.5·Q.

Donde:

σ_d : Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d} : \frac{0.01}{MPa}$$

$$\sigma_{z,d} : \frac{0.42}{MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \frac{0.77}{kN}$$

$$V_{z,d} : \frac{41.61}{kN}$$

A : Área de la sección transversal

$$A : \frac{2244.00}{cm^2}$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \frac{0.67}{}$$

$\sigma_{tor,d}$: Tensión de cálculo a torsión, dada por:

$$\sigma_{tor,y,d} : \frac{0.00}{MPa}$$

$$\sigma_{tor,z,d} : \frac{0.00}{MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \frac{0.00}{kN \cdot m}$$

W_{tor} : Modulo resistente a torsión

$$W_{tor,y} : \frac{67542.77}{cm^3}$$

$$W_{tor,z} : \frac{14568.05}{cm^3}$$

k_{shape} : Factor cuyo valor depende del tipo de sección

$$k_{shape} : \frac{1.70}{}$$

$f_{v,d}$: Resistencia de cálculo a cortante, dada por:

$$f_{v,d} : \frac{1.73}{MPa}$$

Donde:

k_{mod} : Factor de modificación por la duración de la carga (Duración media) y el contenido de humedad (Clase de servicio 2)

$$k_{mod} : \frac{0.80}{}$$

$f_{v,k}$: Resistencia característica a cortante

$$f_{v,k} : \frac{2.70}{MPa}$$

η_M : Coeficiente parcial para las propiedades del material

$$\eta_M : \frac{1.25}{}$$

Resistencia a tracción uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.2 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay axil de tracción.

Resistencia a compresión uniforme paralela a la fibra - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.4 - 6.3.2 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a compresión

$$\sigma < 0.001 \quad \checkmark$$

Resistencia a pandeo por flexión en el eje z

$$\sigma < 0.001 \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$\sigma_{c,0,d,fi} : 0.00 \text{ MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

$$N_{c,0,d,fi} : 0.12 \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : 1580.96 \text{ cm}^2$$

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$f_{c,0,d,fi} : 27.60 \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : 1.00$$

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$$f_{c,0,k} : 24.00 \text{ MPa}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : 1.00$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : 1.15$$

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

$k_{c,fi}$: Factor de inestabilidad, dado por:

$$k_{c,fi} : 0.97$$

Donde:

$$k_{z,fi} : 0.67$$

Donde:

φ_c : Factor asociado a la rectitud de las piezas

$$\varphi_c : 0.10$$

$\varphi_{rel,z,fi}$: Esbeltez relativa, dada por:

$$\varphi_{rel,z,fi} : 0.55$$

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{z,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{z,fi}$: 34.37

Donde:

$L_{k,z}$: Longitud de pandeo de la barra
 $i_{z,fi}$: Radio de giro

$L_{k,z}$: 1627.00 mm
 $i_{z,fi}$: 47.34 mm

Resistencia a pandeo: (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.3.2 y EN 1995-1-2: 2004)

No se comprueba la resistencia a pandeo por flexión en el plano xz, ya que el valor de la esbeltez relativa respecto al eje y es inferior a 0.3.

$\lambda_{rel,y,fi}$: Esbeltez relativa, dada por:

$\lambda_{rel,y,fi}$: 0.09

Donde:

$E_{0,05}$: Valor del quinto percentil del módulo de elasticidad paralelo a la fibra
 $f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra
 k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio
 $\lambda_{y,fi}$: Esbeltez mecánica, dada por:

$E_{0,05}$: 9400.00 MPa
 $f_{c,0,k}$: 24.00 MPa
 k_{fi} : 1.15
 $\lambda_{y,fi}$: 5.85

Donde:

$L_{k,y}$: Longitud de pandeo de la barra
 $i_{y,fi}$: Radio de giro

$L_{k,y}$: 1627.00 mm
 $i_{y,fi}$: 278.28 mm

Resistencia a flexión en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

σ : 0.322 ✓

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que la correspondiente longitud de pandeo es nula.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,y,d,fi}^+$: 8.88 MPa
 $\sigma_{m,y,d,fi}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$M_{y,d}^+$: 225.56 kN·m

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

Donde:

Clase de duración de la carga

Clase de servicio

$f_{m,k}$: Resistencia característica a flexión

$k_{h,fi}$: Factor de altura, dado por:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

M_{y,d^-}	0.00	kN·m
$W_{el,y,fi}$	25400.76	cm ³
$f_{m,y,d,fi}$	27.60	MPa

$k_{mod,fi}$	1.00
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Clase⁺: Duración media

Clase⁻: Permanente

Clase: 2

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: 1.00


$\gamma_{M,fi}$: 1.00

k_{fi} : 1.15

Resistencia a flexión en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 - 6.3.3 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia de la sección transversal a flexión:

η : 0.003 

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones PP+CM+0.6·Q.

No se comprueba la resistencia a vuelco lateral, ya que el módulo resistente elástico de la sección respecto al eje z es inferior o igual al módulo resistente elástico respecto al eje y.

Resistencia de la sección transversal a flexión:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$\sigma_{m,z,d,fi}^+$: 0.08 MPa

$\sigma_{m,z,d,fi}^-$: 0.00 MPa

Donde:

M_d : Momento flector de cálculo

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$M_{z,d}^+$: 0.33 kN·m

$M_{z,d}^-$: 0.00 kN·m

$W_{el,z,fi}$: 4321.29 cm³

$f_{m,z,d,fi}$: 30.36 MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

Donde:

Clase de duración de la carga

Clase de servicio

$f_{m,k}$: Resistencia característica a flexión

$k_{h,fi}$: Factor de altura, dado por:

$k_{mod,fi}$: 1.00

Clase⁺: Duración media

Clase⁻: Permanente

Clase: 2

$f_{m,k}$: 24.00 MPa

$k_{h,fi}$: 1.10

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción	h_{fi} :	<u>164.00</u>	mm
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi}$:	<u>1.00</u>	
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	k_{fi} :	<u>1.15</u>	

Resistencia a cortante en el eje y - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\tau : \underline{0.002} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM+0.6·Q.

Donde:

$$\tau_{d,fi}: \text{Tensión de cálculo a cortante, dada por:} \quad \tau_{y,d,fi} : \underline{0.01} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo	$V_{y,d}$:	<u>0.39</u>	kN
A_{fi} : Área de la sección transversal	A_{fi} :	<u>1580.96</u>	cm ²
k_{cr} : Factor que tiene en cuenta la influencia de las fendas	k_{cr} :	<u>0.67</u>	
$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:	$f_{v,d,fi}$:	<u>3.11</u>	MPa

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad	$k_{mod,fi}$:	<u>1.00</u>	
$f_{v,k}$: Resistencia característica a cortante	$f_{v,k}$:	<u>2.70</u>	MPa
$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material	$\alpha_{M,fi}$:	<u>1.00</u>	
k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio	k_{fi} :	<u>1.15</u>	

Resistencia a cortante en el eje z - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\tau : \underline{0.088} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N12, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$$\tau_{d,fi}: \text{Tensión de cálculo a cortante, dada por:} \quad \tau_{z,d,fi} : \underline{0.27} \quad \text{MPa}$$

Donde:

V_d : Cortante de cálculo

A_{fi} : Área de la sección transversal

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$V_{d,d} : \frac{19.39}{\text{ kN}}$$

$$A_{fi} : \frac{1580.96}{\text{ cm}^2}$$

$$k_{cr} : \frac{0.67}{\text{ }}$$

$$f_{v,d,fi} : \frac{3.11}{\text{ MPa}}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{v,k}$: Resistencia característica a cortante

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{mod,fi} : \frac{1.00}{\text{ }}$$

$$f_{v,k} : \frac{2.70}{\text{ MPa}}$$

$$\gamma_{M,fi} : \frac{1.00}{\text{ }}$$

$$k_{fi} : \frac{1.15}{\text{ }}$$

Resistencia a torsión - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.8 y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\tau < \frac{0.001}{\text{ }} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce para la combinación de acciones PP+CM.

Donde:

$\tau_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,d,fi} : \frac{0.00}{\text{ MPa}}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$W_{tor,fi}$: Modulo resistente a torsión

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$M_{x,d} : \frac{0.00}{\text{ kN}\cdot\text{m}}$$

$$W_{tor,fi} : \frac{7840.30}{\text{ cm}^3}$$

$$k_{shape,fi} : \frac{1.88}{\text{ }}$$

Donde:

$b_{max,fi}$: Ancho mayor de la sección transversal

$b_{min,fi}$: Ancho menor de la sección transversal

$f_{v,d,fi}$: Resistencia de cálculo a cortante, dada por:

$$b_{max,fi} : \frac{964.00}{\text{ mm}}$$

$$b_{min,fi} : \frac{164.00}{\text{ mm}}$$

$$f_{v,d,fi} : \frac{3.11}{\text{ MPa}}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{v,k}$: Resistencia característica a cortante

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{mod,fi} : \frac{1.00}{\text{ }}$$

$$f_{v,k} : \frac{2.70}{\text{ MPa}}$$

$$\gamma_{M,fi} : \frac{1.00}{\text{ }}$$

$$k_{fi} : \frac{1.15}{\text{ }}$$

Resistencia a flexión esviada - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.6 y EN 1995-1-2: 2004)

Se debe satisfacer:

Resistencia a flexión esviada

$$\eta : \underline{0.324} \quad \checkmark$$

$$\eta : \underline{0.228} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$\sigma_{m,y,d,fi} : \underline{8.88} \text{ MPa}$$

$$\sigma_{m,z,d,fi} : \underline{0.08} \text{ MPa}$$

Donde:

M_d : Momento flector de cálculo

$$M_{y,d} : \underline{225.56} \text{ kN}\cdot\text{m}$$

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$$M_{z,d} : \underline{0.33} \text{ kN}\cdot\text{m}$$

$$W_{el,y,fi} : \underline{25400.76} \text{ cm}^3$$

$$W_{el,z,fi} : \underline{4321.29} \text{ cm}^3$$

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$f_{m,y,d,fi} : \underline{27.60} \text{ MPa}$$

$$f_{m,z,d,fi} : \underline{30.36} \text{ MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$$k_{mod,fi} : \underline{1.00}$$

$f_{m,k}$: Resistencia característica a flexión

$$f_{m,k} : \underline{24.00} \text{ MPa}$$

$k_{h,fi}$: Factor de altura, dado por:

$$k_{h,y,fi} : \underline{1.00}$$

$$k_{h,z,fi} : \underline{1.10}$$

$\alpha_{M,fi}$: Coeficiente parcial para las propiedades del material

$$\alpha_{M,fi} : \underline{1.00}$$

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$$k_{fi} : \underline{1.15}$$

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$$k_m : \underline{0.70}$$

Resistencia a flexión y tracción axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.3 y EN 1995-1-2: 2004)

La comprobación no procede, ya que no hay interacción entre axil de tracción y momento flector para ninguna combinación.

Resistencia a flexión y compresión axial combinadas - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.2.4 y EN 1995-1-2: 2004)

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N14, para la combinación de acciones PP+CM+0.6·Q.

Se debe satisfacer:

Resistencia de la sección transversal a flexión y compresión combinados

$$\eta : \underline{0.324} \quad \checkmark$$

$$\sigma : 0.228 \quad \checkmark$$

Resistencia a pandeo para flexión y compresión combinados

$$\sigma : 0.324 \quad \checkmark$$

$$\sigma : 0.228 \quad \checkmark$$

Resistencia a vuelco lateral para flexión y compresión combinados

No es necesaria la comprobación de resistencia a vuelco lateral ya que la longitud de vuelco lateral es nula.

Donde:

$N_{c,0,d,fi}$: Tensión de cálculo a compresión paralela a la fibra, dada por:

$$N_{c,0,d,fi} : 0.00 \quad \text{MPa}$$

Donde:

$N_{c,0,d,fi}$: Compresión axial de cálculo paralela a la fibra

A_{fi} : Área de la sección transversal

$\sigma_{m,d,fi}$: Tensión de cálculo a flexión, dada por:

$$N_{c,0,d,fi} : 0.12 \quad \text{kN}$$

$$A_{fi} : 1580.96 \quad \text{cm}^2$$

$$\sigma_{m,y,d,fi} : 8.88 \quad \text{MPa}$$

$$\sigma_{m,z,d,fi} : 0.08 \quad \text{MPa}$$

Donde:

M_d : Momento flector de cálculo

$W_{el,fi}$: Módulo resistente elástico de la sección transversal

$f_{c,0,d,fi}$: Resistencia de cálculo a compresión paralela a la fibra, dada por:

$$M_{y,d} : 225.56 \quad \text{kN}\cdot\text{m}$$

$$M_{z,d} : 0.33 \quad \text{kN}\cdot\text{m}$$

$$W_{el,y,fi} : 25400.76 \quad \text{cm}^3$$

$$W_{el,z,fi} : 4321.29 \quad \text{cm}^3$$

$$f_{c,0,d,fi} : 27.60 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{c,0,k}$: Resistencia característica a compresión paralela a la fibra

$\gamma_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

$f_{m,d,fi}$: Resistencia de cálculo a flexión, dada por:

$$k_{mod,fi} : 1.00$$

$$f_{c,0,k} : 24.00 \quad \text{MPa}$$

$$\gamma_{M,fi} : 1.00$$

$$k_{fi} : 1.15$$

$$f_{m,y,d,fi} : 27.60 \quad \text{MPa}$$

$$f_{m,z,d,fi} : 30.36 \quad \text{MPa}$$

Donde:

$k_{mod,fi}$: Factor de modificación para la duración de la carga y el contenido de humedad

$f_{m,k}$: Resistencia característica a flexión

$k_{h,fi}$: Factor de altura, dado por:

Eje y:

$$k_{mod,fi} : 1.00$$

$$f_{m,k} : 24.00 \quad \text{MPa}$$

$$k_{h,y,fi} : 1.00$$

$$k_{h,z,fi} : 1.10$$

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada superiores o iguales 600 mm:

Eje z:

Para cantos (flexión) o anchos (tracción) de piezas rectangulares de madera laminada encolada inferiores a 600 mm:

Donde:

h_{fi} : Canto en flexión o mayor dimensión de la sección en tracción

$\eta_{M,fi}$: Coeficiente parcial para las propiedades del material

k_{fi} : Coeficiente de corrección para las propiedades de la madera en situación de incendio

k_m : Factor que tiene en cuenta el efecto de redistribución de tensiones bajo flexión esviada y la falta de homogeneidad del material en la sección transversal

$k_{c,fi}$: Factor de inestabilidad

$$h_{fi} : \underline{164.00} \text{ mm}$$

$$\eta_{M,fi} : \underline{1.00}$$

$$k_{fi} : \underline{1.15}$$

$$k_m : \underline{0.70}$$

$$k_{c,y,fi} : \underline{1.00}$$

$$k_{c,z,fi} : \underline{0.97}$$

Resistencia a cortante y torsor combinados - Situación de incendio (Eurocódigo 5 EN 1995-1-1: 2004 + A1:2008: 6.1.7 - 6.1.8, Criterio de CYPE Ingenieros y EN 1995-1-2: 2004)

Se debe satisfacer:

$$\eta : \underline{0.002} \quad \checkmark$$

$$\eta : \underline{0.088} \quad \checkmark$$

El esfuerzo solicitante de cálculo pésimo se produce en el nudo N12, para la combinación de acciones PP+CM+0.6·Q.

Donde:

$\sigma_{d,fi}$: Tensión de cálculo a cortante, dada por:

$$\sigma_{y,d,fi} : \underline{0.01} \text{ MPa}$$

$$\sigma_{z,d,fi} : \underline{0.27} \text{ MPa}$$

Donde:

V_d : Cortante de cálculo

$$V_{y,d} : \underline{0.39} \text{ kN}$$

$$V_{z,d} : \underline{19.39} \text{ kN}$$

A_{fi} : Área de la sección transversal

$$A_{fi} : \underline{1580.96} \text{ cm}^2$$

k_{cr} : Factor que tiene en cuenta la influencia de las fendas

$$k_{cr} : \underline{0.67}$$

$\tau_{tor,d,fi}$: Tensión de cálculo a torsión, dada por:

$$\tau_{tor,y,d,fi} : \underline{0.00} \text{ MPa}$$

$$\tau_{tor,z,d,fi} : \underline{0.00} \text{ MPa}$$

Donde:

$M_{x,d}$: Momento torsor de cálculo

$$M_{x,d} : \underline{0.00} \text{ kN}\cdot\text{m}$$

$W_{tor,fi}$: Modulo resistente a torsión

$$W_{tor,y,fi} : \underline{46085.65} \text{ cm}^3$$

$$W_{tor,z,fi} : \underline{7840.30} \text{ cm}^3$$

$k_{shape,fi}$: Factor cuyo valor depende del tipo de sección

$$k_{shape,fi} : \underline{1.88}$$

$$f_{v,d,fi} : \quad 3.11 \quad \text{MPa}$$
$$k_{\text{mod,fi}} : \underline{1.00}$$
$$f_{v,k} : \quad \underline{2.70} \quad \text{MPa}$$

\mathbb{M}_{fi} : 1.00

$$k_{fi} : 1.15$$

2.3.2.5.- Comprobaciones E.L.U. (Resumido)

Barras	COMPROBACIONES (EUROCÓDIGO 5 EN 1995-1-1: 2004 + A1:2008) - TEMPERATURA AMBIENTE											Estado
	N _{t,0,d}	N _{c,0,d}	M _{y,d}	M _{z,d}	V _{y,d}	V _{z,d}	M _{x,d}	M _{y,d} M _{z,d}	N _{t,0,d} M _{y,d} M _{z,d}	N _{c,0,d} M _{y,d} M _{z,d}	M _{x,d} V _{y,d} V _{z,d}	
N3/N5	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.05 m ⌀ = 17.5	x: 1.05 m ⌀ = 2.5	x: 0 m ⌀ = 2.1	x: 0 m ⌀ = 59.3	N.P. ⁽³⁾	x: 1.05 m ⌀ = 17.9	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE ⌀ = 59.3
N5/N7	⌀ < 0.1	⌀ = 0.1	x: 1.627 m ⌀ = 40.7	x: 0 m ⌀ = 2.4	x: 1.22 m ⌀ = 1.3	x: 0 m ⌀ = 53.0	⌀ = 0.2	x: 1.627 m ⌀ = 40.9	x: 1.627 m ⌀ = 40.9	x: 1.627 m ⌀ = 39.6	x: 0 m ⌀ = 53.0	CUMPLE ⌀ = 53.0
N7/N9	⌀ < 0.1	⌀ = 0.2	x: 1.627 m ⌀ = 59.3	x: 1.627 m ⌀ = 0.5	x: 1.22 m ⌀ = 0.5	x: 0 m ⌀ = 43.4	⌀ = 0.2	x: 1.627 m ⌀ = 59.5	x: 1.627 m ⌀ = 59.5	x: 1.627 m ⌀ = 57.7	x: 0 m ⌀ = 43.4	CUMPLE ⌀ = 59.5
N9/N11	⌀ < 0.1	⌀ = 0.3	x: 1.627 m ⌀ = 73.2	x: 1.627 m ⌀ = 0.6	x: 0 m ⌀ = 0.7	x: 0 m ⌀ = 33.7	⌀ = 0.1	x: 1.627 m ⌀ = 73.5	x: 1.627 m ⌀ = 73.5	x: 1.627 m ⌀ = 71.3	x: 0 m ⌀ = 33.8	CUMPLE ⌀ = 73.5
N11/N13	⌀ < 0.1	⌀ = 0.3	x: 1.627 m ⌀ = 82.5	x: 1.627 m ⌀ = 0.6	x: 1.22 m ⌀ = 0.6	x: 0 m ⌀ = 24.1	⌀ = 0.1	x: 1.627 m ⌀ = 82.8	x: 1.627 m ⌀ = 82.8	x: 1.627 m ⌀ = 80.3	x: 0 m ⌀ = 24.1	CUMPLE ⌀ = 82.8
N13/N15	⌀ < 0.1	⌀ = 0.3	x: 1.627 m ⌀ = 87.1	x: 1.627 m ⌀ = 0.6	x: 0 m ⌀ = 0.7	x: 0 m ⌀ = 14.4	⌀ < 0.1	x: 1.627 m ⌀ = 87.5	x: 1.627 m ⌀ = 87.5	x: 1.627 m ⌀ = 84.8	x: 0 m ⌀ = 14.4	CUMPLE ⌀ = 87.5
N15/N17	⌀ < 0.1	⌀ = 0.3	x: 0.814 m ⌀ = 87.7	x: 0 m ⌀ = 0.6	x: 1.22 m ⌀ = 0.7	x: 1.627 m ⌀ = 4.7	⌀ < 0.1	x: 1.017 m ⌀ = 87.8	x: 1.017 m ⌀ = 87.8	x: 0.61 m ⌀ = 85.0	x: 1.627 m ⌀ = 4.4	CUMPLE ⌀ = 87.8
N17/N19	⌀ < 0.1	⌀ = 0.3	x: 0 m ⌀ = 87.1	x: 0 m ⌀ = 0.6	x: 0 m ⌀ = 0.7	x: 1.627 m ⌀ = 14.4	⌀ < 0.1	x: 0 m ⌀ = 87.5	x: 0 m ⌀ = 87.5	x: 0 m ⌀ = 84.7	x: 1.627 m ⌀ = 14.4	CUMPLE ⌀ = 87.5
N19/N21	⌀ < 0.1	⌀ = 0.2	x: 0 m ⌀ = 82.5	x: 0 m ⌀ = 0.6	x: 1.22 m ⌀ = 0.6	x: 1.627 m ⌀ = 24.0	⌀ < 0.1	x: 0 m ⌀ = 82.8	x: 0 m ⌀ = 82.8	x: 0 m ⌀ = 80.2	x: 1.627 m ⌀ = 24.1	CUMPLE ⌀ = 82.8
N21/N23	⌀ < 0.1	⌀ = 0.2	x: 0 m ⌀ = 73.2	x: 0 m ⌀ = 0.5	x: 0 m ⌀ = 0.6	x: 1.627 m ⌀ = 33.7	⌀ < 0.1	x: 0 m ⌀ = 73.5	x: 0 m ⌀ = 73.5	x: 0 m ⌀ = 71.2	x: 1.627 m ⌀ = 33.7	CUMPLE ⌀ = 73.5
N23/N25	⌀ < 0.1	⌀ = 0.1	x: 0 m ⌀ = 59.3	x: 0 m ⌀ = 0.5	x: 1.22 m ⌀ = 0.5	x: 1.627 m ⌀ = 43.3	⌀ = 0.2	x: 0 m ⌀ = 59.5	x: 0 m ⌀ = 59.5	x: 0 m ⌀ = 57.6	x: 1.627 m ⌀ = 43.4	CUMPLE ⌀ = 59.5
N25/N27	⌀ = 0.1	N.P. ⁽²⁾	x: 0 m ⌀ = 40.7	x: 1.627 m ⌀ = 2.8	x: 0 m ⌀ = 1.7	x: 1.627 m ⌀ = 53.0	⌀ = 0.1	x: 0 m ⌀ = 40.9	x: 0 m ⌀ = 40.9	N.P. ⁽⁵⁾	x: 1.627 m ⌀ = 53.0	CUMPLE ⌀ = 53.0
N27/N1	⌀ = 0.3	N.P. ⁽²⁾	x: 0 m ⌀ = 17.5	x: 0 m ⌀ = 2.9	x: 1.053 m ⌀ = 2.5	x: 1.053 m ⌀ = 59.3	N.P. ⁽³⁾	x: 0 m ⌀ = 18.2	x: 0 m ⌀ = 18.3	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE ⌀ = 59.3
N4/N6	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.05 m ⌀ = 17.4	x: 1.05 m ⌀ = 2.5	x: 0 m ⌀ = 2.1	x: 0 m ⌀ = 59.2	N.P. ⁽³⁾	x: 1.05 m ⌀ = 17.9	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE ⌀ = 59.2
N6/N8	⌀ = 0.1	⌀ < 0.1	x: 1.627 m ⌀ = 40.6	x: 0 m ⌀ = 2.4	x: 1.22 m ⌀ = 1.3	x: 0 m ⌀ = 53.0	⌀ = 0.1	x: 1.627 m ⌀ = 40.8	x: 1.627 m ⌀ = 39.6	x: 1.627 m ⌀ = 40.8	x: 0 m ⌀ = 53.0	CUMPLE ⌀ = 53.0
N8/N10	⌀ = 0.3	⌀ < 0.1	x: 1.627 m ⌀ = 59.2	x: 1.627 m ⌀ = 0.5	x: 1.22 m ⌀ = 0.5	x: 0 m ⌀ = 43.3	⌀ = 0.2	x: 1.627 m ⌀ = 59.5	x: 1.627 m ⌀ = 57.7	x: 1.627 m ⌀ = 59.5	x: 0 m ⌀ = 43.3	CUMPLE ⌀ = 59.5
N10/N12	⌀ = 0.4	⌀ < 0.1	x: 1.627 m ⌀ = 73.1	x: 1.627 m ⌀ = 0.6	x: 0 m ⌀ = 0.7	x: 0 m ⌀ = 33.7	⌀ < 0.1	x: 1.627 m ⌀ = 73.4	x: 1.627 m ⌀ = 71.3	x: 1.627 m ⌀ = 73.4	x: 0 m ⌀ = 33.7	CUMPLE ⌀ = 73.4
N12/N14	⌀ = 0.4	⌀ < 0.1	x: 1.627 m ⌀ = 82.4	x: 1.627 m ⌀ = 0.6	x: 1.22 m ⌀ = 0.6	x: 0 m ⌀ = 24.0	⌀ < 0.1	x: 1.627 m ⌀ = 82.8	x: 1.627 m ⌀ = 80.3	x: 1.627 m ⌀ = 82.8	x: 0 m ⌀ = 24.0	CUMPLE ⌀ = 82.8
N14/N16	⌀ = 0.5	⌀ < 0.1	x: 1.627 m ⌀ = 87.1	x: 1.627 m ⌀ = 0.6	x: 0 m ⌀ = 0.7	x: 0 m ⌀ = 14.4	⌀ < 0.1	x: 1.627 m ⌀ = 87.4	x: 1.627 m ⌀ = 84.8	x: 1.627 m ⌀ = 87.4	x: 0 m ⌀ = 14.4	CUMPLE ⌀ = 87.4
N16/N18	⌀ = 0.5	⌀ < 0.1	x: 0.814 m ⌀ = 87.6	x: 0 m ⌀ = 0.6	x: 1.22 m ⌀ = 0.7	x: 0 m ⌀ = 4.7	⌀ < 0.1	x: 1.017 m ⌀ = 87.7	x: 0.61 m ⌀ = 85.0	x: 1.017 m ⌀ = 87.7	x: 0 m ⌀ = 4.4	CUMPLE ⌀ = 87.7
N18/N20	⌀ = 0.4	⌀ < 0.1	x: 0 m ⌀ = 87.1	x: 0 m ⌀ = 0.6	x: 0 m ⌀ = 0.7	x: 1.627 m ⌀ = 14.4	⌀ < 0.1	x: 0 m ⌀ = 87.4	x: 0 m ⌀ = 84.7	x: 0 m ⌀ = 87.4	x: 1.627 m ⌀ = 14.4	CUMPLE ⌀ = 87.4
N20/N22	⌀ = 0.4	⌀ < 0.1	x: 0 m ⌀ = 82.4	x: 0 m ⌀ = 0.6	x: 1.22 m ⌀ = 0.6	x: 1.627 m ⌀ = 24.0	⌀ = 0.1	x: 0 m ⌀ = 82.8	x: 0 m ⌀ = 80.2	x: 0 m ⌀ = 82.8	x: 1.627 m ⌀ = 24.0	CUMPLE ⌀ = 82.8
N22/N24	⌀ = 0.3	⌀ < 0.1	x: 0 m ⌀ = 73.2	x: 0 m ⌀ = 0.5	x: 0 m ⌀ = 0.6	x: 1.627 m ⌀ = 33.7	⌀ = 0.1	x: 0 m ⌀ = 73.5	x: 0 m ⌀ = 71.2	x: 0 m ⌀ = 73.5	x: 1.627 m ⌀ = 33.7	CUMPLE ⌀ = 73.5
N24/N26	⌀ = 0.1	⌀ < 0.1	x: 0 m ⌀ = 59.2	x: 0 m ⌀ = 0.5	x: 1.22 m ⌀ = 0.5	x: 1.627 m ⌀ = 43.3	⌀ = 0.2	x: 0 m ⌀ = 59.5	x: 0 m ⌀ = 57.6	x: 0 m ⌀ = 59.5	x: 1.627 m ⌀ = 43.3	CUMPLE ⌀ = 59.5
N26/N28	N.P. ⁽¹⁾	⌀ = 0.1	x: 0 m ⌀ = 40.7	x: 1.627 m ⌀ = 2.8	x: 0 m ⌀ = 1.7	x: 1.627 m ⌀ = 52.9	⌀ = 0.2	x: 0 m ⌀ = 40.9	N.P. ⁽⁴⁾	x: 0 m ⌀ = 40.9	x: 1.627 m ⌀ = 53.0	CUMPLE ⌀ = 53.0
N28/N2	N.P. ⁽¹⁾	⌀ = 0.2	x: 0 m ⌀ = 17.5	x: 0 m ⌀ = 2.9	x: 1.053 m ⌀ = 2.5	x: 1.053 m ⌀ = 59.2	N.P. ⁽³⁾	x: 0 m ⌀ = 18.2	N.P. ⁽⁴⁾	x: 0 m ⌀ = 18.2	N.P. ⁽⁶⁾	CUMPLE ⌀ = 59.2
N7/N8	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m ⌀ = 5.5	x: 0 m ⌀ = 0.5	⌀ = 0.1	x: 0 m ⌀ = 7.0	N.P. ⁽³⁾	x: 1.543 m ⌀ = 5.4	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE ⌀ = 7.0
N9/N10	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m ⌀ = 5.3	x: 0 m ⌀ = 0.4	⌀ = 0.1	x: 0 m ⌀ = 7.0	N.P. ⁽³⁾	x: 1.157 m ⌀ = 5.2	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE ⌀ = 7.0
N11/N12	⌀ < 0.1	N.P. ⁽²⁾	x: 1.35 m ⌀ = 5.2	x: 0 m ⌀ = 0.2	⌀ = 0.1	x: 2.7 m ⌀ = 7.0	N.P. ⁽³⁾	x: 1.157 m ⌀ = 5.1	x: 1.35 m ⌀ = 5.2	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE ⌀ = 7.0
N13/N14	N.P. ⁽¹⁾	⌀ < 0.1	x: 1.35 m ⌀ = 5.2	x: 0 m ⌀ = 0.1	⌀ < 0.1	x: 2.7 m ⌀ = 7.0	N.P. ⁽³⁾	x: 0.964 m ⌀ = 4.8	N.P. ⁽⁴⁾	x: 1.35 m ⌀ = 5.2	N.P. ⁽⁶⁾	CUMPLE ⌀ = 7.0

Barras	COMPROBACIONES (EUROCÓDIGO 5 EN 1995-1-1: 2004 + A1:2008) - TEMPERATURA AMBIENTE											Estado
	N _{t,0,d}	N _{c,0,d}	M _{y,d}	M _{z,d}	V _{y,d}	V _{z,d}	M _{x,d}	M _{y,d} M _{z,d}	N _{t,0,d} M _{y,d} M _{z,d}	N _{c,0,d} M _{y,d} M _{z,d}	M _{x,d} V _{y,d} V _{z,d}	
N15/N16	$\bar{\sigma} < 0.1$	N.P. ⁽²⁾	x: 1.35 m $\bar{\sigma} = 5.2$	N.P. ⁽⁷⁾	N.P. ⁽⁸⁾	x: 2.7 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	N.P. ⁽⁹⁾	x: 1.35 m $\bar{\sigma} = 5.2$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$
N17/N18	N.P. ⁽¹⁾	$\bar{\sigma} < 0.1$	x: 1.35 m $\bar{\sigma} = 5.2$	x: 0 m $\bar{\sigma} = 0.1$	$\bar{\sigma} < 0.1$	x: 2.7 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	x: 1.157 m $\bar{\sigma} = 5.0$	N.P. ⁽⁴⁾	x: 1.35 m $\bar{\sigma} = 5.2$	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$
N19/N20	$\bar{\sigma} < 0.1$	N.P. ⁽²⁾	x: 1.35 m $\bar{\sigma} = 5.2$	x: 0 m $\bar{\sigma} = 0.3$	$\bar{\sigma} = 0.1$	x: 2.7 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	x: 1.157 m $\bar{\sigma} = 5.1$	x: 1.35 m $\bar{\sigma} = 5.2$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$
N21/N22	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\sigma} = 5.2$	x: 0 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	x: 1.157 m $\bar{\sigma} = 5.0$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$
N23/N24	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\sigma} = 5.2$	x: 0 m $\bar{\sigma} = 0.5$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	x: 1.157 m $\bar{\sigma} = 5.0$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$
N25/N26	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\sigma} = 5.3$	x: 0 m $\bar{\sigma} = 0.7$	$\bar{\sigma} = 0.2$	x: 0 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	x: 1.543 m $\bar{\sigma} = 4.9$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$
N7/N6	$\bar{\sigma} = 0.9$	$\bar{\sigma} = 39.1$	x: 3.152 m $\bar{\sigma} = 3.7$	x: 3.152 m $\bar{\sigma} = 2.2$	$\bar{\sigma} = 0.3$	x: 3.152 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.4$	x: 3.152 m $\bar{\sigma} = 4.4$	x: 1.379 m $\bar{\sigma} = 3.3$	x: 3.152 m $\bar{\sigma} = 42.7$	x: 3.152 m $\bar{\sigma} = 1.2$	CUMPLE $\bar{\sigma} = 42.7$
N7/N10	$\bar{\sigma} = 4.3$	N.P. ⁽²⁾	x: 0 m $\bar{\sigma} = 3.6$	x: 0 m $\bar{\sigma} = 0.6$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.6$	x: 0 m $\bar{\sigma} = 3.2$	x: 1.97 m $\bar{\sigma} = 6.7$	N.P. ⁽⁵⁾	x: 0 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 6.7$
N11/N10	$\bar{\sigma} = 1.7$	$\bar{\sigma} = 10.6$	x: 3.152 m $\bar{\sigma} = 3.4$	x: 3.152 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.8$	x: 1.182 m $\bar{\sigma} = 2.8$	x: 1.379 m $\bar{\sigma} = 4.5$	x: 3.152 m $\bar{\sigma} = 12.7$	x: 3.152 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 12.7$
N11/N14	$\bar{\sigma} = 2.6$	N.P. ⁽²⁾	x: 0 m $\bar{\sigma} = 3.3$	x: 0 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 1.97 m $\bar{\sigma} = 2.9$	x: 1.773 m $\bar{\sigma} = 5.4$	N.P. ⁽⁵⁾	x: 0 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 5.4$
N15/N14	$\bar{\sigma} = 1.9$	$\bar{\sigma} = 0.4$	x: 3.152 m $\bar{\sigma} = 3.2$	x: 0 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 3.152 m $\bar{\sigma} = 3.3$	x: 1.576 m $\bar{\sigma} = 5.0$	x: 3.152 m $\bar{\sigma} = 2.1$	x: 3.152 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 5.0$
N15/N18	$\bar{\sigma} = 1.7$	$\bar{\sigma} = 1.8$	x: 0 m $\bar{\sigma} = 3.2$	x: 3.152 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.1$	x: 0 m $\bar{\sigma} = 3.2$	x: 1.576 m $\bar{\sigma} = 4.7$	x: 3.152 m $\bar{\sigma} = 3.6$	x: 0 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 4.7$
N19/N18	$\bar{\sigma} = 3.2$	N.P. ⁽²⁾	x: 0 m $\bar{\sigma} = 3.2$	x: 0 m $\bar{\sigma} = 0.5$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 0 m $\bar{\sigma} = 3.3$	x: 1.576 m $\bar{\sigma} = 6.0$	N.P. ⁽⁵⁾	x: 0 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 6.0$
N19/N22	$\bar{\sigma} = 1.5$	$\bar{\sigma} = 12.1$	x: 3.152 m $\bar{\sigma} = 3.3$	x: 3.152 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 1.182 m $\bar{\sigma} = 2.9$	x: 1.379 m $\bar{\sigma} = 4.5$	x: 3.152 m $\bar{\sigma} = 14.2$	x: 3.152 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 14.2$
N23/N22	$\bar{\sigma} = 5.0$	N.P. ⁽²⁾	x: 0 m $\bar{\sigma} = 3.4$	x: 0 m $\bar{\sigma} = 0.7$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.8$	x: 1.97 m $\bar{\sigma} = 2.8$	x: 1.97 m $\bar{\sigma} = 7.4$	N.P. ⁽⁵⁾	x: 0 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 7.4$
N23/N26	$\bar{\sigma} = 1.2$	$\bar{\sigma} = 22.3$	x: 3.152 m $\bar{\sigma} = 3.6$	x: 3.152 m $\bar{\sigma} = 0.6$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.6$	x: 3.152 m $\bar{\sigma} = 3.2$	x: 1.379 m $\bar{\sigma} = 3.8$	x: 3.152 m $\bar{\sigma} = 25.0$	x: 3.152 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 25.0$
N27/N26	$\bar{\sigma} = 10.5$	N.P. ⁽²⁾	x: 0 m $\bar{\sigma} = 3.7$	x: 0 m $\bar{\sigma} = 2.6$	$\bar{\sigma} = 0.4$	x: 0 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.4$	x: 0 m $\bar{\sigma} = 5.1$	x: 1.576 m $\bar{\sigma} = 12.7$	N.P. ⁽⁵⁾	x: 0 m $\bar{\sigma} = 1.2$	CUMPLE $\bar{\sigma} = 12.7$
N25/N28	N.P. ⁽¹⁾	$\bar{\sigma} = 51.5$	x: 3.152 m $\bar{\sigma} = 3.7$	x: 3.152 m $\bar{\sigma} = 2.6$	$\bar{\sigma} = 0.4$	x: 3.152 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.4$	x: 3.152 m $\bar{\sigma} = 5.1$	N.P. ⁽⁴⁾	x: 3.152 m $\bar{\sigma} = 56.3$	x: 3.152 m $\bar{\sigma} = 1.2$	CUMPLE $\bar{\sigma} = 56.3$
N25/N24	$\bar{\sigma} = 4.5$	$\bar{\sigma} = 5.9$	x: 0 m $\bar{\sigma} = 3.6$	x: 0 m $\bar{\sigma} = 0.6$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.6$	x: 0 m $\bar{\sigma} = 3.2$	x: 1.773 m $\bar{\sigma} = 6.1$	x: 1.773 m $\bar{\sigma} = 8.5$	x: 0 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 8.5$
N21/N24	N.P. ⁽¹⁾	$\bar{\sigma} = 24.3$	x: 3.152 m $\bar{\sigma} = 3.4$	x: 3.152 m $\bar{\sigma} = 0.7$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.8$	x: 1.182 m $\bar{\sigma} = 2.8$	N.P. ⁽⁴⁾	x: 1.182 m $\bar{\sigma} = 26.8$	x: 3.152 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 26.8$
N21/N20	$\bar{\sigma} = 2.4$	$\bar{\sigma} = 7.6$	x: 0 m $\bar{\sigma} = 3.3$	x: 0 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 1.97 m $\bar{\sigma} = 2.9$	x: 1.773 m $\bar{\sigma} = 4.0$	x: 1.773 m $\bar{\sigma} = 10.6$	x: 0 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 10.6$
N17/N20	N.P. ⁽¹⁾	$\bar{\sigma} = 15.5$	x: 3.152 m $\bar{\sigma} = 3.2$	x: 3.152 m $\bar{\sigma} = 0.5$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 3.152 m $\bar{\sigma} = 3.3$	N.P. ⁽⁴⁾	x: 1.576 m $\bar{\sigma} = 18.1$	x: 3.152 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 18.1$
N17/N16	$\bar{\sigma} = 0.4$	$\bar{\sigma} = 8.2$	x: 3.152 m $\bar{\sigma} = 3.2$	x: 0 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.1$	x: 0 m $\bar{\sigma} = 3.2$	x: 1.576 m $\bar{\sigma} = 1.9$	x: 1.576 m $\bar{\sigma} = 11.2$	x: 0 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 11.2$
N13/N16	$\bar{\sigma} = 0.1$	$\bar{\sigma} = 9.5$	x: 0 m $\bar{\sigma} = 3.2$	x: 3.152 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 0 m $\bar{\sigma} = 3.3$	x: 1.576 m $\bar{\sigma} = 1.3$	x: 1.576 m $\bar{\sigma} = 12.5$	x: 0 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 12.5$
N13/N12	N.P. ⁽¹⁾	$\bar{\sigma} = 13.0$	x: 3.152 m $\bar{\sigma} = 3.3$	x: 3.152 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.1$	$\bar{\sigma} = 1.0$	x: 1.182 m $\bar{\sigma} = 2.9$	N.P. ⁽⁴⁾	x: 1.379 m $\bar{\sigma} = 15.5$	x: 3.152 m $\bar{\sigma} = 1.4$	CUMPLE $\bar{\sigma} = 15.5$
N9/N12	$\bar{\sigma} = 2.1$	$\bar{\sigma} = 8.4$	x: 0 m $\bar{\sigma} = 3.4$	x: 0 m $\bar{\sigma} = 0.4$	$\bar{\sigma} = 0.1$	x: 0 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.8$	x: 1.97 m $\bar{\sigma} = 2.8$	x: 1.773 m $\bar{\sigma} = 3.6$	x: 1.773 m $\bar{\sigma} = 11.2$	x: 0 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 11.2$
N9/N8	N.P. ⁽¹⁾	$\bar{\sigma} = 21.3$	x: 3.152 m $\bar{\sigma} = 3.6$	x: 3.152 m $\bar{\sigma} = 0.6$	$\bar{\sigma} = 0.1$	x: 3.152 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.6$	x: 3.152 m $\bar{\sigma} = 3.2$	N.P. ⁽⁴⁾	x: 3.152 m $\bar{\sigma} = 23.9$	x: 3.152 m $\bar{\sigma} = 1.3$	CUMPLE $\bar{\sigma} = 23.9$
N5/N8	$\bar{\sigma} = 7.9$	$\bar{\sigma} = 4.3$	x: 0 m $\bar{\sigma} = 3.7$	x: 0 m $\bar{\sigma} = 2.2$	$\bar{\sigma} = 0.3$	x: 0 m $\bar{\sigma} = 1.2$	$\bar{\sigma} = 0.4$	x: 0 m $\bar{\sigma} = 4.4$	x: 1.379 m $\bar{\sigma} = 9.9$	x: 0 m $\bar{\sigma} = 7.0$	x: 0 m $\bar{\sigma} = 1.2$	CUMPLE $\bar{\sigma} = 9.9$
N27/N28	N.P. ⁽¹⁾	$\bar{\sigma} < 0.1$	x: 1.35 m $\bar{\sigma} = 5.3$	x: 0 m $\bar{\sigma} = 2.9$	$\bar{\sigma} = 0.8$	x: 0 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	x: 1.543 m $\bar{\sigma} = 4.9$	N.P. ⁽⁴⁾	x: 1.35 m $\bar{\sigma} = 5.3$	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$
N5/N6	$\bar{\sigma} < 0.1$	$\bar{\sigma} < 0.1$	x: 1.35 m $\bar{\sigma} = 5.7$	x: 2.7 m $\bar{\sigma} = 2.6$	$\bar{\sigma} = 0.7$	x: 0 m $\bar{\sigma} = 7.0$	N.P. ⁽³⁾	x: 1.543 m $\bar{\sigma} = 5.7$	x: 1.543 m $\bar{\sigma} = 5.7$	x: 1.736 m $\bar{\sigma} = 4.0$	N.P. ⁽⁶⁾	CUMPLE $\bar{\sigma} = 7.0$

Barras	COMPROBACIONES (EUROCÓDIGO 5 EN 1995-1-1: 2004 + A1:2008) - TEMPERATURA AMBIENTE											Estado
	$N_{t,0,d}$	$N_{c,0,d}$	$M_{y,d}$	$M_{z,d}$	$V_{y,d}$	$V_{z,d}$	$M_{x,d}$	$M_{y,d}M_{z,d}$	$N_{t,0,d}M_{y,d}M_{z,d}$	$N_{c,0,d}M_{y,d}M_{z,d}$	$M_{x,d}V_{y,d}V_{z,d}$	
Notación:												
$N_{t,0,d}$: Resistencia a tracción uniforme paralela a la fibra												
$N_{c,0,d}$: Resistencia a compresión uniforme paralela a la fibra												
$M_{y,d}$: Resistencia a flexión en el eje y												
$M_{z,d}$: Resistencia a flexión en el eje z												
$V_{y,d}$: Resistencia a cortante en el eje y												
$V_{z,d}$: Resistencia a cortante en el eje z												
$M_{x,d}$: Resistencia a torsión												
$M_{y,d}M_{z,d}$: Resistencia a flexión esviada												
$N_{t,0,d}M_{y,d}M_{z,d}$: Resistencia a flexión y tracción axial combinadas												
$N_{c,0,d}M_{y,d}M_{z,d}$: Resistencia a flexión y compresión axial combinadas												
$M_{x,d}V_{y,d}V_{z,d}$: Resistencia a cortante y torsor combinadas												
x: Distancia al origen de la barra												
η : Coeficiente de aprovechamiento (%)												
N.P.: No procede												
Comprobaciones que no proceden (N.P.):												
⁽¹⁾ La comprobación no procede, ya que no hay axil de tracción.												
⁽²⁾ La comprobación no procede, ya que no hay axil de compresión.												
⁽³⁾ La comprobación no procede, ya que no hay momento torsor.												
⁽⁴⁾ La comprobación no procede, ya que no hay interacción entre axil de tracción y momento flector para ninguna combinación.												
⁽⁵⁾ La comprobación no procede, ya que la barra no esta sometida a flexión y compresión combinadas.												
⁽⁶⁾ La comprobación no procede, ya que la barra no está sometida a momento torsor ni a esfuerzo cortante.												
⁽⁷⁾ La comprobación no procede, ya que no hay momento flector.												
⁽⁸⁾ La comprobación no procede, ya que no hay esfuerzo cortante.												
⁽⁹⁾ La comprobación no procede, ya que no hay flexión esviada para ninguna combinación.												

Barras	COMPROBACIONES (EUROCÓDIGO 5 EN 1995-1-1: 2004 + A1:2008) - SITUACIÓN DE INCENDIO											Estado
	$N_{t,0,d}$	$N_{c,0,d}$	$M_{y,d}$	$M_{z,d}$	$V_{y,d}$	$V_{z,d}$	$M_{x,d}$	$M_{y,d}M_{z,d}$	$N_{t,0,d}M_{y,d}M_{z,d}$	$N_{c,0,d}M_{y,d}M_{z,d}$	$M_{x,d}V_{y,d}V_{z,d}$	
N3/N5	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.05 m $\eta = 6.8$	x: 1.05 m $\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 21.9$	N.P. ⁽³⁾	x: 1.05 m $\eta = 6.8$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\eta = 21.9$
N5/N7	$\eta < 0.1$	N.P. ⁽²⁾	x: 1.627 m $\eta = 15.9$	x: 1.627 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 19.5$	$\eta < 0.1$	x: 1.627 m $\eta = 16.0$	x: 1.627 m $\eta = 16.0$	N.P. ⁽⁵⁾	x: 0 m $\eta = 19.6$	CUMPLE $\eta = 19.6$
N7/N9	$\eta < 0.1$	N.P. ⁽²⁾	x: 1.627 m $\eta = 23.1$	x: 1.627 m $\eta = 0.2$	$\eta = 0.1$	x: 0 m $\eta = 16.0$	$\eta < 0.1$	x: 1.627 m $\eta = 23.3$	x: 1.627 m $\eta = 23.3$	N.P. ⁽⁵⁾	x: 0 m $\eta = 16.0$	CUMPLE $\eta = 23.3$
N9/N11	$\eta < 0.1$	N.P. ⁽²⁾	x: 1.627 m $\eta = 28.6$	x: 1.627 m $\eta = 0.2$	$\eta = 0.2$	x: 0 m $\eta = 12.4$	$\eta < 0.1$	x: 1.627 m $\eta = 28.8$	x: 1.627 m $\eta = 28.8$	N.P. ⁽⁵⁾	x: 0 m $\eta = 12.4$	CUMPLE $\eta = 28.8$
N11/N13	$\eta < 0.1$	N.P. ⁽²⁾	x: 1.627 m $\eta = 32.2$	x: 1.627 m $\eta = 0.3$	$\eta = 0.2$	x: 0 m $\eta = 8.9$	$\eta < 0.1$	x: 1.627 m $\eta = 32.4$	x: 1.627 m $\eta = 32.4$	N.P. ⁽⁵⁾	x: 0 m $\eta = 8.9$	CUMPLE $\eta = 32.4$
N13/N15	$\eta < 0.1$	N.P. ⁽²⁾	x: 1.627 m $\eta = 34.0$	x: 1.627 m $\eta = 0.3$	$\eta = 0.2$	x: 0 m $\eta = 5.3$	$\eta < 0.1$	x: 1.627 m $\eta = 34.2$	x: 1.627 m $\eta = 34.2$	N.P. ⁽⁵⁾	x: 0 m $\eta = 5.3$	CUMPLE $\eta = 34.2$
N15/N17	$\eta < 0.1$	N.P. ⁽²⁾	x: 0.814 m $\eta = 34.3$	x: 1.627 m $\eta = 0.3$	$\eta = 0.2$	x: 1.627 m $\eta = 1.7$	N.P. ⁽³⁾	x: 0.407 m $\eta = 34.3$	x: 0.407 m $\eta = 34.3$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\eta = 34.3$
N17/N19	$\eta < 0.1$	N.P. ⁽²⁾	x: 0 m $\eta = 34.0$	x: 0 m $\eta = 0.3$	$\eta = 0.2$	x: 1.627 m $\eta = 5.3$	$\eta < 0.1$	x: 0 m $\eta = 34.2$	x: 0 m $\eta = 34.2$	N.P. ⁽⁵⁾	x: 1.627 m $\eta = 5.3$	CUMPLE $\eta = 34.2$
N19/N21	$\eta < 0.1$	N.P. ⁽²⁾	x: 0 m $\eta = 32.2$	x: 0 m $\eta = 0.3$	$\eta = 0.2$	x: 1.627 m $\eta = 8.9$	$\eta < 0.1$	x: 0 m $\eta = 32.4$	x: 0 m $\eta = 32.4$	N.P. ⁽⁵⁾	x: 1.627 m $\eta = 8.9$	CUMPLE $\eta = 32.4$
N21/N23	$\eta < 0.1$	N.P. ⁽²⁾	x: 0 m $\eta = 28.6$	x: 0 m $\eta = 0.2$	$\eta = 0.2$	x: 1.627 m $\eta = 12.4$	$\eta < 0.1$	x: 0 m $\eta = 28.7$	x: 0 m $\eta = 28.8$	N.P. ⁽⁵⁾	x: 1.627 m $\eta = 12.4$	CUMPLE $\eta = 28.8$
N23/N25	$\eta < 0.1$	N.P. ⁽²⁾	x: 0 m $\eta = 23.1$	x: 0 m $\eta = 0.2$	$\eta = 0.1$	x: 1.627 m $\eta = 16.0$	$\eta < 0.1$	x: 0 m $\eta = 23.3$	x: 0 m $\eta = 23.3$	N.P. ⁽⁵⁾	x: 1.627 m $\eta = 16.0$	CUMPLE $\eta = 23.3$
N25/N27	$\eta < 0.1$	N.P. ⁽²⁾	x: 0 m $\eta = 15.9$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 1.627 m $\eta = 19.5$	$\eta < 0.1$	x: 0 m $\eta = 16.0$	x: 0 m $\eta = 16.0$	N.P. ⁽⁵⁾	x: 1.627 m $\eta = 19.5$	CUMPLE $\eta = 19.5$
N27/N1	$\eta < 0.1$	N.P. ⁽²⁾	x: 0 m $\eta = 6.8$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 1.053 m $\eta = 21.9$	N.P. ⁽³⁾	x: 0 m $\eta = 6.8$	x: 0 m $\eta = 6.9$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\eta = 21.9$
N4/N6	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.05 m $\eta = 6.8$	x: 1.05 m $\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 21.8$	N.P. ⁽³⁾	x: 1.05 m $\eta = 6.8$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\eta = 21.8$
N6/N8	N.P. ⁽¹⁾	$\eta < 0.1$	x: 1.627 m $\eta = 15.9$	x: 1.627 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 19.5$	$\eta < 0.1$	x: 1.627 m $\eta = 16.0$	N.P. ⁽⁴⁾	x: 1.627 m $\eta = 16.0$	x: 0 m $\eta = 19.5$	CUMPLE $\eta = 19.5$
N8/N10	N.P. ⁽¹⁾	$\eta < 0.1$	x: 1.627 m $\eta = 23.1$	x: 1.627 m $\eta = 0.2$	$\eta = 0.1$	x: 0 m $\eta = 16.0$	$\eta < 0.1$	x: 1.627 m $\eta = 23.2$	N.P. ⁽⁴⁾	x: 1.627 m $\eta = 23.2$	x: 0 m $\eta = 16.0$	CUMPLE $\eta = 23.2$
N10/N12	N.P. ⁽¹⁾	$\eta < 0.1$	x: 1.627 m $\eta = 28.5$	x: 1.627 m $\eta = 0.2$	$\eta = 0.2$	x: 0 m $\eta = 12.4$	$\eta < 0.1$	x: 1.627 m $\eta = 28.7$	N.P. ⁽⁴⁾	x: 1.627 m $\eta = 28.7$	x: 0 m $\eta = 12.4$	CUMPLE $\eta = 28.7$
N12/N14	N.P. ⁽¹⁾	$\eta < 0.1$	x: 1.627 m $\eta = 32.2$	x: 1.627 m $\eta = 0.3$	$\eta = 0.2$	x: 0 m $\eta = 8.8$	$\eta < 0.1$	x: 1.627 m $\eta = 32.4$	N.P. ⁽⁴⁾	x: 1.627 m $\eta = 32.4$	x: 0 m $\eta = 8.8$	CUMPLE $\eta = 32.4$
N14/N16	N.P. ⁽¹⁾	$\eta < 0.1$	x: 1.627 m $\eta = 34.0$	x: 1.627 m $\eta = 0.3$	$\eta = 0.2$	x: 0 m $\eta = 5.3$	$\eta < 0.1$	x: 1.627 m $\eta = 34.2$	N.P. ⁽⁴⁾	x: 1.627 m $\eta = 34.2$	x: 0 m $\eta = 5.3$	CUMPLE $\eta = 34.2$
N16/N18	N.P. ⁽¹⁾	$\eta < 0.1$	x: 0.814 m $\eta = 34.2$	x: 1.627 m $\eta = 0.3$	$\eta = 0.2$	x: 0 m $\eta = 1.7$	N.P. ⁽³⁾	x: 1.22 m $\eta = 34.2$	N.P. ⁽⁴⁾	x: 1.22 m $\eta = 34.3$	N.P. ⁽⁶⁾	CUMPLE $\eta = 34.3$

Barras	COMPROBACIONES (EUROCÓDIGO 5 EN 1995-1-1: 2004 + A1:2008) - SITUACIÓN DE INCENDIO											Estado
	N _{t,0,d}	N _{c,0,d}	M _{y,d}	M _{z,d}	V _{y,d}	V _{z,d}	M _{x,d}	M _{y,d} M _{z,d}	N _{t,0,d} M _{y,d} M _{z,d}	N _{c,0,d} M _{y,d} M _{z,d}	M _{x,d} V _{y,d} V _{z,d}	
N18/N20	N.P. ⁽¹⁾	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 34.0$	x: 0 m $\bar{\alpha} = 0.3$	$\bar{\alpha} = 0.2$	x: 1.627 m $\bar{\alpha} = 5.3$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 34.2$	N.P. ⁽⁴⁾	x: 0 m $\bar{\alpha} = 34.2$	x: 1.627 m $\bar{\alpha} = 5.3$	CUMPLE $\bar{\alpha} = 34.2$
N20/N22	N.P. ⁽¹⁾	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 32.2$	x: 0 m $\bar{\alpha} = 0.3$	$\bar{\alpha} = 0.2$	x: 1.627 m $\bar{\alpha} = 8.8$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 32.4$	N.P. ⁽⁴⁾	x: 0 m $\bar{\alpha} = 32.4$	x: 1.627 m $\bar{\alpha} = 8.8$	CUMPLE $\bar{\alpha} = 32.4$
N22/N24	N.P. ⁽¹⁾	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 28.6$	x: 0 m $\bar{\alpha} = 0.2$	$\bar{\alpha} = 0.2$	x: 1.627 m $\bar{\alpha} = 12.4$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 28.7$	N.P. ⁽⁴⁾	x: 0 m $\bar{\alpha} = 28.7$	x: 1.627 m $\bar{\alpha} = 12.4$	CUMPLE $\bar{\alpha} = 28.7$
N24/N26	N.P. ⁽¹⁾	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 23.1$	x: 0 m $\bar{\alpha} = 0.2$	$\bar{\alpha} = 0.1$	x: 1.627 m $\bar{\alpha} = 16.0$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 23.3$	N.P. ⁽⁴⁾	x: 0 m $\bar{\alpha} = 23.3$	x: 1.627 m $\bar{\alpha} = 16.0$	CUMPLE $\bar{\alpha} = 23.3$
N26/N28	N.P. ⁽¹⁾	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 15.9$	x: 0 m $\bar{\alpha} = 0.1$	$\bar{\alpha} = 0.1$	x: 1.627 m $\bar{\alpha} = 19.5$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 16.0$	N.P. ⁽⁴⁾	x: 0 m $\bar{\alpha} = 16.0$	x: 1.627 m $\bar{\alpha} = 19.5$	CUMPLE $\bar{\alpha} = 19.5$
	N28/N2	N.P. ⁽¹⁾	x: 0 m $\bar{\alpha} = 6.8$	x: 0 m $\bar{\alpha} < 0.1$	$\bar{\alpha} < 0.1$	x: 1.053 m $\bar{\alpha} = 21.8$	N.P. ⁽³⁾	x: 0 m $\bar{\alpha} = 6.8$	N.P. ⁽⁴⁾	x: 0 m $\bar{\alpha} = 6.8$	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 21.8$
N7/N8	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	x: 0 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	x: 2.121 m $\bar{\alpha} = 1.1$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N9/N10	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	x: 0 m $\bar{\alpha} < 0.1$	N.P. ⁽⁷⁾	x: 0 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	x: 0 m $\bar{\alpha} = 0.2$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N11/N12	$\bar{\alpha} < 0.1$	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	x: 0 m $\bar{\alpha} < 0.1$	N.P. ⁽⁷⁾	x: 2.7 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	x: 0.193 m $\bar{\alpha} = 0.5$	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N13/N14	N.P. ⁽¹⁾	$\bar{\alpha} < 0.1$	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁸⁾	N.P. ⁽⁷⁾	x: 2.7 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	N.P. ⁽⁹⁾	N.P. ⁽⁴⁾	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N15/N16	$\bar{\alpha} < 0.1$	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁸⁾	N.P. ⁽⁷⁾	x: 2.7 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	N.P. ⁽⁹⁾	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N17/N18	N.P. ⁽¹⁾	$\bar{\alpha} < 0.1$	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁸⁾	N.P. ⁽⁷⁾	x: 2.7 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	N.P. ⁽⁹⁾	N.P. ⁽⁴⁾	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N19/N20	$\bar{\alpha} < 0.1$	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁸⁾	N.P. ⁽⁷⁾	x: 2.7 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	N.P. ⁽⁹⁾	x: 1.35 m $\bar{\alpha} = 1.6$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N21/N22	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	x: 0 m $\bar{\alpha} < 0.1$	N.P. ⁽⁷⁾	x: 0 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	x: 0.193 m $\bar{\alpha} = 0.5$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N23/N24	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	x: 0 m $\bar{\alpha} < 0.1$	N.P. ⁽⁷⁾	x: 0 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	x: 0 m $\bar{\alpha} = 0.2$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N25/N26	N.P. ⁽¹⁾	N.P. ⁽²⁾	x: 1.35 m $\bar{\alpha} = 1.6$	x: 0 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 1.3$	N.P. ⁽³⁾	x: 2.121 m $\bar{\alpha} = 1.1$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\alpha} = 1.6$
N7/N6	$\bar{\alpha} = 0.3$	N.P. ⁽²⁾	x: 3.152 m $\bar{\alpha} = 5.6$	x: 0 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 3.152 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.3$	x: 3.152 m $\bar{\alpha} = 5.6$	x: 1.379 m $\bar{\alpha} = 3.5$	N.P. ⁽⁵⁾	x: 3.152 m $\bar{\alpha} = 1.0$	CUMPLE $\bar{\alpha} = 5.6$
	$\bar{\alpha} = 0.5$	N.P. ⁽²⁾	x: 0 m $\bar{\alpha} = 4.9$	x: 3.152 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.5$	x: 0 m $\bar{\alpha} = 5.0$	x: 1.773 m $\bar{\alpha} = 4.0$	N.P. ⁽⁵⁾	x: 0 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 5.0$
N11/N10	$\bar{\alpha} = 0.8$	N.P. ⁽²⁾	x: 3.152 m $\bar{\alpha} = 4.4$	x: 0 m $\bar{\alpha} = 0.2$	$\bar{\alpha} < 0.1$	x: 3.152 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.7$	x: 3.152 m $\bar{\alpha} = 4.5$	x: 1.379 m $\bar{\alpha} = 4.5$	N.P. ⁽⁵⁾	x: 3.152 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 4.5$
N11/N14	$\bar{\alpha} = 0.8$	N.P. ⁽²⁾	x: 0 m $\bar{\alpha} = 4.2$	x: 3.152 m $\bar{\alpha} = 0.2$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 0.8$	$\bar{\alpha} = 0.8$	x: 0 m $\bar{\alpha} = 3.9$	x: 1.576 m $\bar{\alpha} = 4.6$	N.P. ⁽⁵⁾	x: 0 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 4.6$
N15/N14	$\bar{\alpha} = 0.9$	N.P. ⁽²⁾	x: 3.152 m $\bar{\alpha} = 4.1$	x: 0 m $\bar{\alpha} = 0.3$	$\bar{\alpha} < 0.1$	x: 3.152 m $\bar{\alpha} = 0.8$	$\bar{\alpha} = 0.9$	x: 3.152 m $\bar{\alpha} = 4.2$	x: 1.576 m $\bar{\alpha} = 4.9$	N.P. ⁽⁵⁾	x: 3.152 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 4.9$
N15/N18	$\bar{\alpha} = 0.9$	N.P. ⁽²⁾	x: 1.576 m $\bar{\alpha} = 4.0$	x: 3.152 m $\bar{\alpha} = 0.3$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 0.8$	$\bar{\alpha} = 0.9$	x: 0 m $\bar{\alpha} = 4.1$	x: 1.576 m $\bar{\alpha} = 4.9$	N.P. ⁽⁵⁾	x: 0 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 4.9$
N19/N18	$\bar{\alpha} = 0.9$	N.P. ⁽²⁾	x: 0 m $\bar{\alpha} = 4.1$	x: 3.152 m $\bar{\alpha} = 0.3$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 0.8$	$\bar{\alpha} = 0.9$	x: 0 m $\bar{\alpha} = 4.2$	x: 1.576 m $\bar{\alpha} = 4.9$	N.P. ⁽⁵⁾	x: 0 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 4.9$
N19/N22	$\bar{\alpha} = 0.8$	N.P. ⁽²⁾	x: 3.152 m $\bar{\alpha} = 4.2$	x: 0 m $\bar{\alpha} = 0.2$	$\bar{\alpha} < 0.1$	x: 3.152 m $\bar{\alpha} = 0.8$	$\bar{\alpha} = 0.8$	x: 3.152 m $\bar{\alpha} = 3.9$	x: 1.576 m $\bar{\alpha} = 4.6$	N.P. ⁽⁵⁾	x: 3.152 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 4.6$
	$\bar{\alpha} = 0.8$	N.P. ⁽²⁾	x: 0 m $\bar{\alpha} = 4.4$	x: 3.152 m $\bar{\alpha} = 0.2$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.7$	x: 0 m $\bar{\alpha} = 4.5$	x: 1.773 m $\bar{\alpha} = 4.5$	N.P. ⁽⁵⁾	x: 0 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 4.5$
N23/N26	$\bar{\alpha} = 0.5$	N.P. ⁽²⁾	x: 3.152 m $\bar{\alpha} = 4.9$	x: 0 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 3.152 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.5$	x: 3.152 m $\bar{\alpha} = 5.0$	x: 1.379 m $\bar{\alpha} = 4.0$	N.P. ⁽⁵⁾	x: 3.152 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 5.0$
N27/N26	$\bar{\alpha} = 0.3$	N.P. ⁽²⁾	x: 0 m $\bar{\alpha} = 5.6$	x: 3.152 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.3$	x: 0 m $\bar{\alpha} = 5.6$	x: 1.773 m $\bar{\alpha} = 3.5$	N.P. ⁽⁵⁾	x: 0 m $\bar{\alpha} = 1.0$	CUMPLE $\bar{\alpha} = 5.6$
N25/N28	N.P. ⁽¹⁾	$\bar{\alpha} = 6.4$	x: 3.152 m $\bar{\alpha} = 5.6$	x: 0 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 3.152 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.3$	x: 3.152 m $\bar{\alpha} = 5.6$	N.P. ⁽⁴⁾	x: 3.152 m $\bar{\alpha} = 12.0$	x: 3.152 m $\bar{\alpha} = 1.0$	CUMPLE $\bar{\alpha} = 12.0$
N25/N24	N.P. ⁽¹⁾	$\bar{\alpha} = 10.5$	x: 0 m $\bar{\alpha} = 4.9$	x: 3.152 m $\bar{\alpha} = 0.1$	$\bar{\alpha} < 0.1$	x: 0 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.5$	x: 0 m $\bar{\alpha} = 5.0$	N.P. ⁽⁴⁾	x: 0 m $\bar{\alpha} = 15.4$	x: 0 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 15.4$
N21/N24	N.P. ⁽¹⁾	$\bar{\alpha} = 14.9$	x: 3.152 m $\bar{\alpha} = 4.4$	x: 0 m $\bar{\alpha} = 0.2$	$\bar{\alpha} < 0.1$	x: 3.152 m $\bar{\alpha} = 0.9$	$\bar{\alpha} = 0.7$	x: 3.152 m $\bar{\alpha} = 4.5$	N.P. ⁽⁴⁾	x: 3.152 m $\bar{\alpha} = 19.4$	x: 3.152 m $\bar{\alpha} = 1.1$	CUMPLE $\bar{\alpha} = 19.4$

Barras	COMPROBACIONES (EUROCÓDIGO 5 EN 1995-1-1: 2004 + A1:2008) - SITUACIÓN DE INCENDIO											Estado
	$N_{t,0,d}$	$N_{c,0,d}$	$M_{y,d}$	$M_{z,d}$	$V_{y,d}$	$V_{z,d}$	$M_{x,d}$	$M_{y,d}M_{z,d}$	$N_{t,0,d}M_{y,d}M_{z,d}$	$N_{c,0,d}M_{y,d}M_{z,d}$	$M_{x,d}V_{y,d}V_{z,d}$	
N21/N20	N.P. ⁽¹⁾	$\bar{\eta} = 15.2$	x: 0 m $\bar{\eta} = 4.2$	x: 3.152 m $\bar{\eta} = 0.2$	$\bar{\eta} < 0.1$	x: 0 m $\bar{\eta} = 0.8$	$\bar{\eta} = 0.8$	x: 0 m $\bar{\eta} = 3.9$	N.P. ⁽⁴⁾	x: 0 m $\bar{\eta} = 19.2$	x: 0 m $\bar{\eta} = 1.1$	CUMPLE $\bar{\eta} = 19.2$
N17/N20	N.P. ⁽¹⁾	$\bar{\eta} = 18.2$	x: 3.152 m $\bar{\eta} = 4.1$	x: 0 m $\bar{\eta} = 0.3$	$\bar{\eta} < 0.1$	x: 3.152 m $\bar{\eta} = 0.8$	$\bar{\eta} = 0.9$	x: 3.152 m $\bar{\eta} = 4.2$	N.P. ⁽⁴⁾	x: 1.576 m $\bar{\eta} = 22.2$	x: 3.152 m $\bar{\eta} = 1.1$	CUMPLE $\bar{\eta} = 22.2$
N17/N16	N.P. ⁽¹⁾	$\bar{\eta} = 16.7$	x: 1.576 m $\bar{\eta} = 4.0$	x: 0 m $\bar{\eta} = 0.3$	$\bar{\eta} < 0.1$	x: 0 m $\bar{\eta} = 0.8$	$\bar{\eta} = 0.9$	x: 0 m $\bar{\eta} = 4.1$	N.P. ⁽⁴⁾	x: 1.576 m $\bar{\eta} = 20.7$	x: 0 m $\bar{\eta} = 1.1$	CUMPLE $\bar{\eta} = 20.7$
N13/N16	N.P. ⁽¹⁾	$\bar{\eta} = 18.4$	x: 0 m $\bar{\eta} = 4.1$	x: 3.152 m $\bar{\eta} = 0.3$	$\bar{\eta} < 0.1$	x: 0 m $\bar{\eta} = 0.8$	$\bar{\eta} = 0.9$	x: 0 m $\bar{\eta} = 4.2$	N.P. ⁽⁴⁾	x: 1.576 m $\bar{\eta} = 22.3$	x: 0 m $\bar{\eta} = 1.1$	CUMPLE $\bar{\eta} = 22.3$
N13/N12	N.P. ⁽¹⁾	$\bar{\eta} = 14.9$	x: 3.152 m $\bar{\eta} = 4.2$	x: 0 m $\bar{\eta} = 0.2$	$\bar{\eta} < 0.1$	x: 3.152 m $\bar{\eta} = 0.8$	$\bar{\eta} = 0.8$	x: 3.152 m $\bar{\eta} = 3.9$	N.P. ⁽⁴⁾	x: 3.152 m $\bar{\eta} = 18.8$	x: 3.152 m $\bar{\eta} = 1.1$	CUMPLE $\bar{\eta} = 18.8$
N9/N12	N.P. ⁽¹⁾	$\bar{\eta} = 15.3$	x: 0 m $\bar{\eta} = 4.4$	x: 3.152 m $\bar{\eta} = 0.2$	$\bar{\eta} < 0.1$	x: 0 m $\bar{\eta} = 0.9$	$\bar{\eta} = 0.7$	x: 0 m $\bar{\eta} = 4.5$	N.P. ⁽⁴⁾	x: 0 m $\bar{\eta} = 19.8$	x: 0 m $\bar{\eta} = 1.1$	CUMPLE $\bar{\eta} = 19.8$
N9/N8	N.P. ⁽¹⁾	$\bar{\eta} = 10.0$	x: 3.152 m $\bar{\eta} = 4.9$	x: 0 m $\bar{\eta} = 0.1$	$\bar{\eta} < 0.1$	x: 3.152 m $\bar{\eta} = 0.9$	$\bar{\eta} = 0.5$	x: 3.152 m $\bar{\eta} = 5.0$	N.P. ⁽⁴⁾	x: 3.152 m $\bar{\eta} = 14.9$	x: 3.152 m $\bar{\eta} = 1.1$	CUMPLE $\bar{\eta} = 14.9$
N5/N8	N.P. ⁽¹⁾	$\bar{\eta} = 6.8$	x: 0 m $\bar{\eta} = 5.6$	x: 3.152 m $\bar{\eta} = 0.1$	$\bar{\eta} < 0.1$	x: 0 m $\bar{\eta} = 0.9$	$\bar{\eta} = 0.3$	x: 0 m $\bar{\eta} = 5.6$	N.P. ⁽⁴⁾	x: 0 m $\bar{\eta} = 12.4$	x: 0 m $\bar{\eta} = 1.0$	CUMPLE $\bar{\eta} = 12.4$
N27/N28	N.P. ⁽¹⁾	$\bar{\eta} < 0.1$	x: 1.35 m $\bar{\eta} = 1.6$	x: 0 m $\bar{\eta} = 0.2$	$\bar{\eta} < 0.1$	x: 0 m $\bar{\eta} = 1.3$	N.P. ⁽³⁾	x: 1.929 m $\bar{\eta} = 1.3$	N.P. ⁽⁴⁾	x: 1.35 m $\bar{\eta} = 1.6$	N.P. ⁽⁶⁾	CUMPLE $\bar{\eta} = 1.6$
N5/N6	$\bar{\eta} < 0.1$	N.P. ⁽²⁾	x: 1.35 m $\bar{\eta} = 1.6$	x: 0 m $\bar{\eta} = 0.2$	$\bar{\eta} < 0.1$	x: 0 m $\bar{\eta} = 1.3$	N.P. ⁽³⁾	x: 1.929 m $\bar{\eta} = 1.3$	x: 1.35 m $\bar{\eta} = 1.6$	N.P. ⁽⁵⁾	N.P. ⁽⁶⁾	CUMPLE $\bar{\eta} = 1.6$
<p>Notación:</p> <p>$N_{t,0,d}$: Resistencia a tracción uniforme paralela a la fibra $N_{c,0,d}$: Resistencia a compresión uniforme paralela a la fibra $M_{y,d}$: Resistencia a flexión en el eje y $M_{z,d}$: Resistencia a flexión en el eje z $V_{y,d}$: Resistencia a cortante en el eje y $V_{z,d}$: Resistencia a cortante en el eje z $M_{x,d}$: Resistencia a torsión $M_{y,d}M_{z,d}$: Resistencia a flexión esviada $N_{t,0,d}M_{y,d}M_{z,d}$: Resistencia a flexión y tracción axial combinadas $N_{c,0,d}M_{y,d}M_{z,d}$: Resistencia a flexión y compresión axial combinadas $M_{x,d}V_{y,d}V_{z,d}$: Resistencia a cortante y torsor combinados x: Distancia al origen de la barra $\bar{\eta}$: Coeficiente de aprovechamiento (%) N.P.: No procede</p>												
<p>Comprobaciones que no proceden (N.P.):</p> <p>⁽¹⁾ La comprobación no procede, ya que no hay axil de tracción. ⁽²⁾ La comprobación no procede, ya que no hay axil de compresión. ⁽³⁾ La comprobación no procede, ya que no hay momento torsor. ⁽⁴⁾ La comprobación no procede, ya que no hay interacción entre axil de tracción y momento flector para ninguna combinación. ⁽⁵⁾ La comprobación no procede, ya que la barra no está sometida a flexión y compresión combinadas. ⁽⁶⁾ La comprobación no procede, ya que la barra no está sometida a momento torsor ni a esfuerzo cortante. ⁽⁷⁾ La comprobación no procede, ya que no hay esfuerzo cortante. ⁽⁸⁾ La comprobación no procede, ya que no hay momento flector. ⁽⁹⁾ La comprobación no procede, ya que no hay flexión esviada para ninguna combinación.</p>												

