



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



ANEJO 3.2: CÁLCULO ESTRUCTURAL. UNIONES.

Índice de contenido

1. Objeto	3
2. Bases de cálculo.....	3
3. Materiales estructurales.....	3
4. Acciones de cálculo	4
5. Combinaciones de acciones	4
6. Descripción de las uniones	4
7. Resultados.....	10

Índice de Tablas

Tabla 1: Propiedades del acero S235	3
Tabla 2: Propiedades del acero S275	3
Tabla 3: Propiedades del acero de bulones C50.....	4
Tabla 4: Valores resistentes característicos para cada dirección.....	6
Tabla 5: Valores resistentes de cálculo para cada dirección.....	7
Tabla 6: Valores de los esfuerzos de cálculo para cada dirección	7
Tabla 7: Principales características geométricas de la unión	7
Tabla 8: Principales características materiales de la unión y coeficientes	8

1. Objeto

El objeto de este documento es abordar el cálculo de las uniones de la estructura de manera detallada, proporcionando información sobre normativa empleada, selección del tipo de unión a emplear en función del nudo del que se trate y metodología de cálculo empleada.

2. Bases de cálculo

Se listan en primer lugar las normativas empleadas en el diseño y cálculo de las uniones de la estructura.

- UNE-EN 1995-1-1:2016
- Código Estructural
- CTE DB-SE-M

3. Materiales estructurales

Se proporciona en las siguientes tablas (1, 2, 3) las características principales de los materiales empleados en las uniones de la estructura.

- Acero S 235

Parámetro	Valor	Uds
Módulo de elasticidad E	210000	N/mm ²
Módulo de rigidez G	81000	N/mm ²
Coefficiente de Poisson n	0,3	
Peso específico γ	7850	kg/m ³
Coefficiente de expansión térmica α	1,2E-05	1°/C
Límite elástico f_y	235	N/mm ²
Tensión de rotura f_u	360< f_u <510	N/mm ²

Tabla 1. Propiedades del acero S235.

- Acero S 275

Parámetro	Valor	Uds
Módulo de elasticidad E	210000	N/mm ²
Módulo de rigidez G	81000	N/mm ²
Coefficiente de Poisson n	0,3	
Peso específico γ	7850	kg/m ³
Coefficiente de expansión térmica α	1,2E-05	1°/C
Límite elástico f_y	275	N/mm ²
Tensión de rotura f_u	430< f_u <580	N/mm ²

Tabla 2. Propiedades del acero S275.

- Acero bulones C50

Parámetro	Valor	Uds
Módulo de elasticidad E	210000	N/mm ²
Módulo de rigidez G	81000	N/mm ²
Coefficiente de Poisson n	0,3	
Peso específico γ	7850	kg/m ³
Coefficiente de expansión térmica α	1,2E-05	1°/C

Límite elástico f_{yb}	460	N/mm ²
Tensión de rotura f_{ub}	700 a 850	N/mm ²

Tabla 3. Propiedades del acero de bulones C50.

Adicionalmente, el tipo de tornillo empleado en las uniones es acero de categoría 6.8, con un límite elástico mínimo $f_{yb} = 480$ N/mm² y con una resistencia a tracción mínima $f_{ub} = 600$ N/mm².

4. Acciones de cálculo

Las acciones de cálculo han sido descritas previamente en el Anejo 2.1: Cálculo estructural. Estructura principal.

5. Combinaciones de acciones

Las combinaciones de acciones han sido descritas previamente en el Anejo 2.1: Cálculo estructural. Estructura principal.

6. Descripción de las uniones

Se realiza el cálculo de varios tipos de uniones de la estructura. La mayoría de las uniones pertenecientes a la estructura principal se calculan empleando el software RSTAB, mediante el cual se resuelven las uniones empleando como solución constructiva placas de acero S 235, insertadas dentro de las piezas de madera que conforman la estructura, junto a tornillos con un grado de acero 6.8. La fabricación de estas piezas debe ser realizada en taller, para facilitar su instalación en obra posterior y reducir al mínimo cualquier problema en relación a las dimensiones y tolerancias de las placas y taladros. La figura 1 muestra un ejemplo habitual del tipo de unión aquí descrita, mientras que la figura 2 representa una de las uniones calculadas en este trabajo.

Se calcula un total de 8 uniones de este tipo en la estructura. En la sección 7 de este documento se proporciona un informe de cálculo obtenido del software empleado con las correspondientes comprobaciones resistentes frente a los modos de fallos considerados para cada unión. Estas uniones se incluyen también en el anejo de planos del proyecto, en el cuál se emplean las siguientes referencias:

- Unión 1 (UT1): Unión correspondiente al nudo 56 de la estructura, que representa una unión para el cordón inferior en el centro de la cercha. Esta unión está formada por el cordón inferior y el montante central.
- Unión 2 (UT2): Unión correspondiente al nudo 21. Se trata de la unión de un pilar central, en su base, con las diagonales en la dirección longitudinal de la estructura.
- Unión 3 (UT3): Unión correspondiente al nudo 62 de la estructura. Se trata de la unión, en el plano de pórtico, donde conectan los 3 pilares de un lateral.
- Unión 4 (UT4): Unión correspondiente al nudo 57. Esta es la unión de coronación de la cercha en un pórtico interior, en la cual confluyen 5 barras (un montante, dos diagonales y dos tramos del cordón superior).
- Unión 5 (UT5): Unión correspondiente al nudo 6. Se trata de la unión en el nudo extremo del voladizo, en la que confluyen el extremo del cordón superior y la diagonal correspondiente.
- Unión 6 (UT6): Unión correspondiente al nudo 265. En esta unión confluyen un pilar central, una diagonal longitudinal y una viga longitudinal de arriostramiento.

- Unión 7 (UT7): Unión en el nudo 52. En esta unión confluyen 5 barras, siendo estas un montante, dos diagonales, el cordón inferior y el pilar diagonal interno del pórtico.
- Unión 8 (UT8): Unión en el nudo 61. Unión de la cercha contigua a la unión de coronación, a la que llegan 3 barras (un montante, una diagonal y el cordón superior).

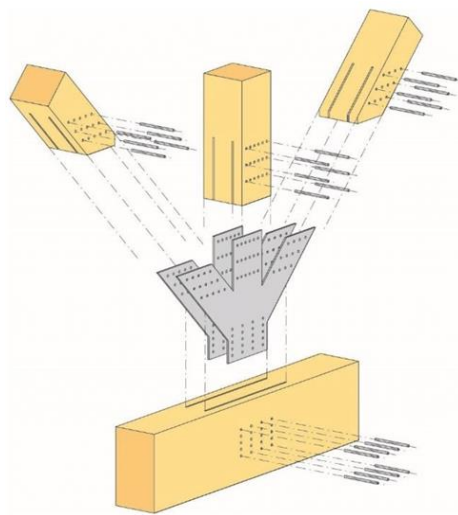


Figura 1. Unión característica de una cercha resuelta mediante conectores tipo placa. Fuente: Roberto Crocetti.

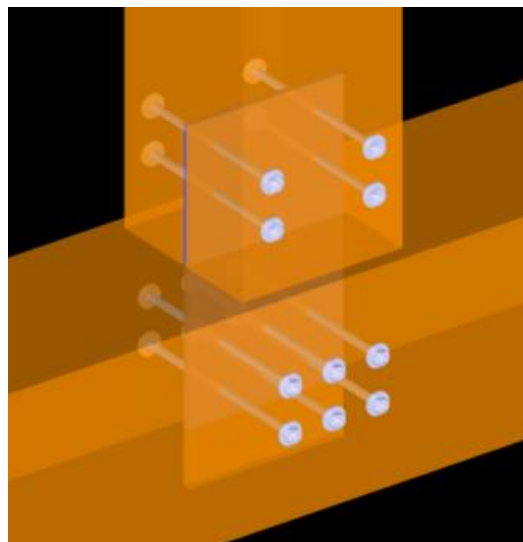


Figura 2. Unión tipo para el cordón inferior de la cercha resuelta mediante una placa interior y tornillos (UT1). Fuente: propia.

Otro tipo de uniones calculadas son las correspondientes a la unión de las correas principales de la estructura. Para materializar esta conexión se emplea un conector angular prefabricado a cada lado de la correa (extremos de la misma). Para realizar la comprobación de la unión se emplea el siguiente criterio: se buscan los valores más desfavorables para las combinaciones de cálculo realizadas en el modelo de RSTAB, en la correa que se encuentre más solicitada. Estos esfuerzos (en los extremos de la pieza), se comparan con los esfuerzos máximos que resiste el conector, proporcionados por el fabricante en cada dirección para una configuración realizada con dos escuadras.

El tipo de elemento de unión que se emplea para materializar la conexión de las correas al cordón superior de la cercha es un angular prefabricado de acero al carbono con zincado galvanizado S250GD+Z275. Las características geométricas de este angular son unas dimensiones “H” de 197 mm, “P” de 122 mm, “B” de 104 mm y un espesor “s” de 3 mm. Un esquema en detalle de este elemento se proporciona en la figura 3.

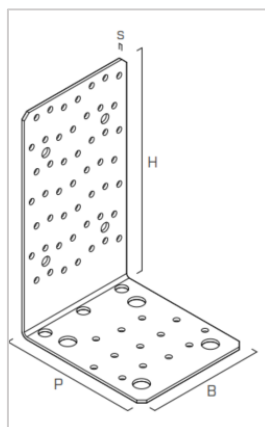


Figura 3. Angular prefabricado de unión de piezas de madera. Fuente: fabricante.

El tipo de disposición empleada para las correas se muestra en la figura 4. Esta disposición considera fuerzas actuando en 3 direcciones. Cada dirección tiene asociada un valor característico de resistencia en función del tipo de elemento de fijación empleado. Los valores de resistencia característicos asociados a cada dirección, para una sola pieza de unión, se presentan en la tabla 4. Para mejorar la unión y proporcionar un comportamiento simétrico se emplea un angular a cada lado de la pieza en lugar de uno solo a uno de los dos lados.

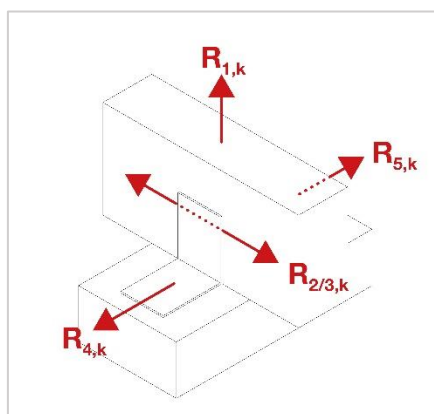


Figura 4. Angular prefabricado de unión de piezas de madera. Fuente: fabricante.

$R_{1,k} \text{ (kN)}$	$R_{2/3,k} \text{ (kN)}$	$R_{4/5,k}$
41,2	26,7	21,7

Tabla 4. Valores resistentes característicos para cada dirección.

Debido a que los valores proporcionados por el fabricante para los esfuerzos son valores característicos, resulta necesario calcular los valores de diseño de estos esfuerzos. Se emplea para ello la ecuación 2.7 del DB SE-M, que se define como el valor de la capacidad de carga de cálculo:

$$R_d = K_{mod} \frac{R_k}{\gamma_M}$$

Los términos que intervienen en la ecuación anterior son el valor característico de la capacidad de carga, R_k , el coeficiente parcial de seguridad para el material, γ_M , de valor 1,30 para uniones, y un factor de modificación, k_{mod} , considerado para el cálculo como de corta duración, con un valor de 0,9.

Se calculan los valores de capacidad de carga de cálculo en cada dirección para la unión, considerando una pieza de unión. Estos valores se proporcionan en la tabla 5.

$R_{1,d} (kN)$	$R_{2/3,d} (kN)$	$R_{4/5,d} (kN)$
28,52	18,48	15,02

Tabla 5. Valores resistentes de cálculo para cada dirección.

Se emplean los esfuerzos de cálculo más desfavorables en la correa más solicitada para realizar la comprobación resistente. La notación empleada para estos esfuerzos es " F_i ", donde el subíndice "i" hace referencia a la dirección del esfuerzo. Estos subíndices son coincidentes con los de los valores de la capacidad de carga. El valor de estos esfuerzos se proporciona en la tabla 6.

$F_1 (kN)$	$F_{2/3} (kN)$	$F_{4/5} (kN)$
12,03	17,32	0,62

Tabla 6. Valores de los esfuerzos de cálculo para cada dirección.

El tercer grupo incluye la unión de base de los pilares de la estructura.

La unión de base de los pilares se realiza empleando elementos tipo chapa unidos mediante un bulón. Para el cálculo de este tipo de conexión se utiliza el apartado 3.13 del Código Estructural. El esquema de la unión mediante bulón se proporciona en la figura 5.

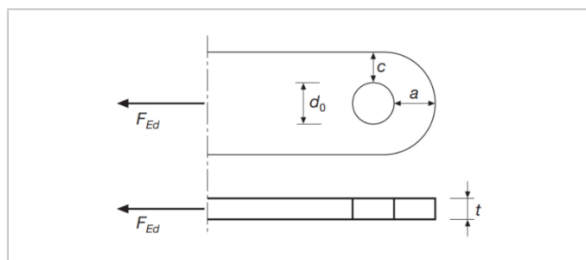


Figura 5. Unión mediante chapas y bulón. Esquema general. Fuente: Código Estructural.

Las características geométricas y materiales de los elementos de la unión se proporcionan en las siguientes tablas.

Diámetro del bulón 'd'	Diámetro del agujero 'd ₀ '	Espesor de la pieza 't'
(mm)	(mm)	(mm)
40	42	25

Tabla 7. Principales características geométricas de la unión.

Acero chapa		Acero bulón		Coeficientes	
$f_{y, \text{chapa}}$	$f_{u, \text{chapa}}$	$f_{y, \text{bu}}$	$f_{u, \text{bu}}$	γ_{M0}	γ_{M2}
(N/mm ²)	(N/mm ²)	(N/mm ²)	(N/mm ²)		

Tabla 8. Principales características materiales de la unión y coeficientes.

El esfuerzo de cálculo empleado en el diseño de la unión es $F_{Ed} = 220,61$ kN, obtenido del modelo de cálculo realizado en el software, para combinación ELU.

La distancia del borde del agujero a un borde perpendicular al esfuerzo a transmitir 'a' se calcula de acuerdo a la siguiente expresión.

$$a \geq \frac{F_{Ed} \gamma_{M0}}{2t f_y} + \frac{2d_0}{3}$$

El valor obtenido para la separación 'a' es de 0,0448 m.

La distancia del borde del agujero a un borde paralelo al esfuerzo a transmitir se define como 'c', y se calcula mediante la siguiente expresión:

$$c \geq \frac{F_{Ed} \gamma_{M0}}{2t f_y} + \frac{d_0}{3}$$

El valor obtenido para la separación 'c' es de 0,0308 m. Tanto esta separación como la anterior son separaciones mínimas, por tanto es posible aumentar este valor si se desea. Adicionalmente, existen una serie de condiciones geométricas que deben cumplirse para que la pieza sea capaz de resistir el esfuerzo de cálculo. Estas condiciones están relacionadas con el diámetro del taladro, el espesor de la placa y unos condicionantes geométricos, que pueden verse en la figura 6. Las otras dos condiciones se enuncian de la siguiente manera:

Condición 1:

$$d_0 \leq 2,5t = 2,5 \cdot 25 = 62,5 \text{ mm}$$

La primera condición se cumple al ser el valor de $d_0 = 42$ mm.

Condición 2:

$$t \geq 0,7 \sqrt{\frac{F_{Ed} \gamma_{M0}}{f_y}} = 20,136 \text{ mm}$$

La segunda condición se cumple también al ser el espesor de la pieza $t = 25$ mm.

El cálculo de la resistencia a simple cortante del bulón de acero se realiza aplicando la siguiente expresión:

$$F_{v,Rd} = \frac{0,6 A f_{up}}{\gamma_{M2}} \geq F_{V,Ed}$$

El término 'A' es el área del bulón, que se calcula como $A = (\pi \cdot d^2)/4 = 0,00126 \text{ m}^2$. El bulón empleado es un C50 de diámetro 40 mm.

El término ' f_{up} ' es equivalente al término ' $f_{u,bu}$ ', de la tabla 8, con un valor de 750 N/mm², empleándose un valor más cerca al límite inferior del rango proporcionado. El valor que se obtiene de la resistencia $F_{v,Rd} = 453,6$ kN. Se cumple que este valor es superior al esfuerzo solicitante F_{Ed} .

El momento flector M_{Ed} en un bulón que une una pieza central de espesor 'b' sometida a un esfuerzo F_{Ed} , normal al eje del bulón, con otras dos piezas laterales de espesor 'a', separadas a una distancia 'c' del eje central, se toma igual a la siguiente expresión:

$$M_{Ed} = \frac{F_{Ed}(b + 4c + 2a)}{8}$$

Se proporciona una figura relacionada con el cálculo del momento flector en el bulón.

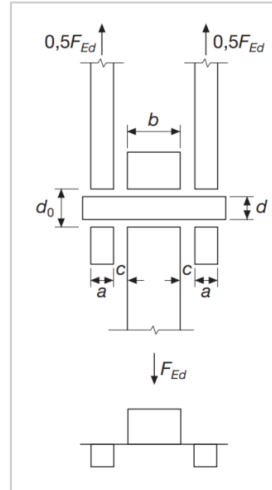


Figura 6. Esquema de cálculo del momento flector en el bulón. Fuente: EAE

Se definen ahora las variables necesarias para resolver la expresión que no habían sido determinadas previamente.

Espesor de las chapas laterales, $a = 15 \text{ mm}$.

Separación entre chapas, $c = 5,5 \text{ mm}$.

La variable 'b' es el espesor de la chapa central, que ya había sido definido previamente. El esfuerzo solicitante, F_{Ed} también había sido definido de forma previa. El valor definitivo del momento flector es $M_{Ed} = 468796,25 \text{ Nmm}$.

Se debe cumplir la siguiente condición:

$$M_{Ed} \leq M_{Rd} = \frac{1,5W_{el}f_{yp}}{\gamma_{M0}} = \frac{1,5W_{el,bu}f_{y,bu}}{\gamma_{M0}}$$

En el cálculo del momento resistente interviene el módulo resistente del bulón, cuyo valor se determina como:

$$W_{el,bu} = \frac{\pi \left(\frac{d}{2}\right)^3}{4} = 6283.18 \text{ mm}^3$$

El valor de M_{Rd} es de $2468394,228 \text{ Nmm}$, siendo por tanto el valor resistente superior al valor solicitante, y cumpliéndose la condición previa.

La resistencia combinada a cortante y a flexión será suficiente mientras se cumpla la siguiente condición:

$$\left[\frac{M_{Ed}}{M_{Rd}}\right]^2 + \left[\frac{F_{v,Ed}}{F_{v,Rd}}\right]^2 \leq 1$$

En la expresión anterior, M_{Ed} y $F_{v,Ed}$ son los esfuerzos que solicitan al bulón en estado límite último. El valor de la expresión combinada es de 0,2726, siendo por tanto el resultado favorable.

La resistencia a aplastamiento de una pieza de espesor $t = 25$ mm (capacidad resistente de la chapa) contra un bulón de diámetro $d = 40$ mm, se define mediante la expresión:

$$F_{b,Rd} = \frac{1,5tdf_y}{\gamma_{M0}} = 392,85 \text{ kN}$$

La resistencia a aplastamiento anterior ha sido calculada para la chapa central de la unión. Para las dos chapas entre las cuales encaja la chapa central, de espesor $t = 15$ mm cada una de ellas, el valor de la resistencia a aplastamiento (de una sola de ellas) aplicando la expresión anterior es $F_{b,Rd} = 235,714$ kN. La condición de resistencia a aplastamiento ($F_{b,Rd} \geq F_{v,Rd}$) se cumple en ambos casos.

Si el bulón debe ser desmontable, la resistencia a aplastamiento en estado límite de servicio viene dada por la expresión:

$$F_{b,Rd,ser} = 0,6tdf_y = 165 \text{ kN}$$

El valor del esfuerzo solicitante en ELS es $F_{b,Ed,ser} = 155,98$ kN, obtenido del software de cálculo empleado. La condición resistente cumple al ser el esfuerzo solicitante menor al esfuerzo resistente.

7. Resultados

En este apartado se presenta el informe de resultados obtenidos del cálculo de uniones realizado en el software de cálculo.



::LAVteam::

Page: 1/337

Sheet: 1

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

STRUCTURAL ANALYSIS

PROJECT

Estructura singular con madera de derribo revalorizada para un espacio polivalente en la Avenida de la Justicia en el barrio de Los Dolores (Murcia)

CLIENT

CREATED BY

Roberto Mansilla Ruiz



::LAV/team::

Page: 2/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

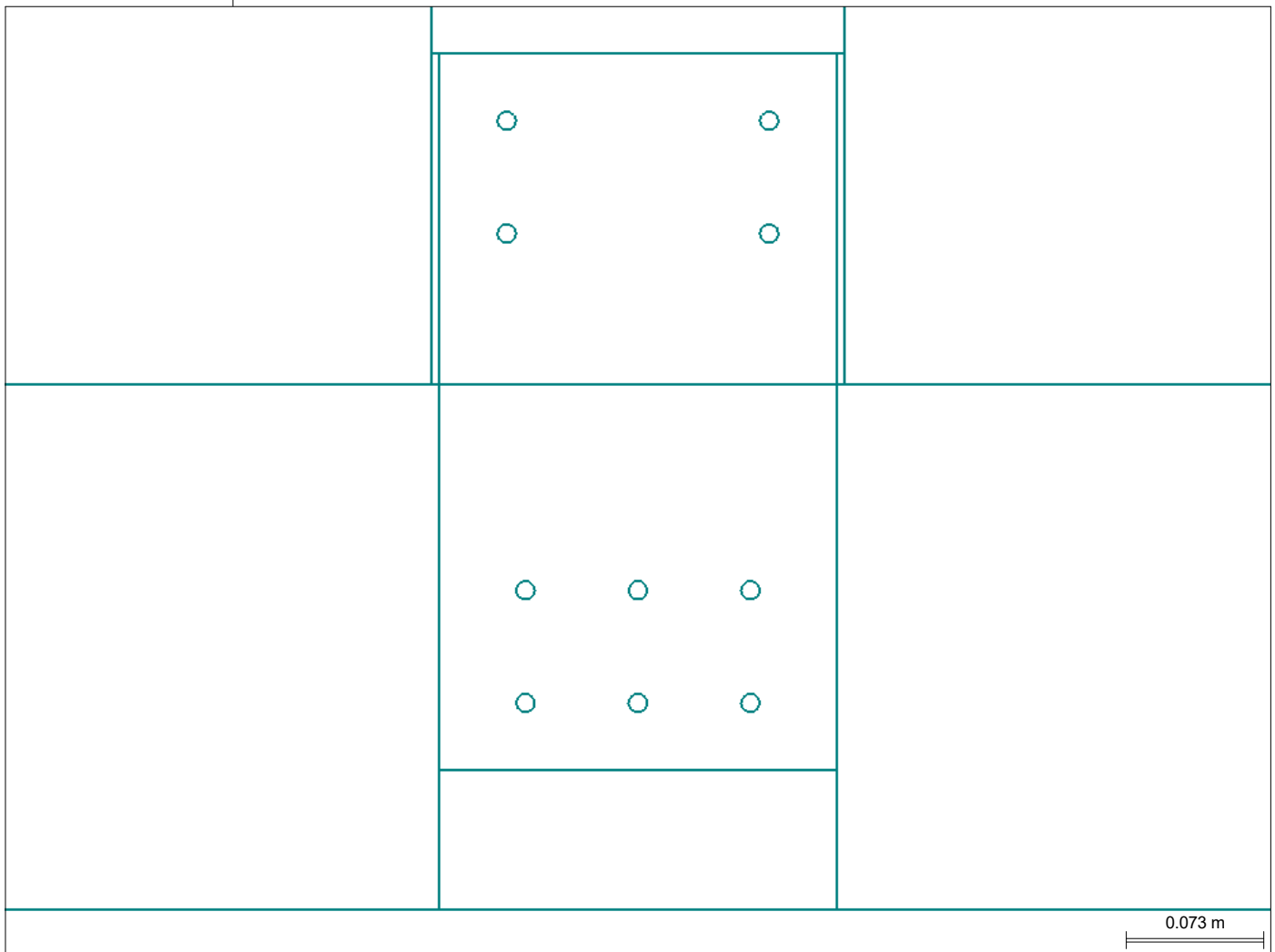
JOINTS
CA1
Design of Joints

1.1 GENERAL DATA

JOINTS CA1

Settings for	Details
Design Standard National Annex Type of connection Input Data Comment	EN 1995-1-1:2004-11 CEN JOINTS - Steel to timber - Bolts Import from model Union nudo central cordon inferior cercha portico interior

1.2 VIEW OF CONNECTION



1.3 NODES AND MEMBERS

Node No.	Member No.	Member Type	Cross-section	Material	Angle [°]
56	101	Main member	T-Rectangle 260/280	Glulam Timber GL24h	180.00
	123	Continuous member	T-Rectangle 260/280	Glulam Timber GL24h	90.00
	124	Connected member	T-Rectangle 220/220	Glulam Timber GL24h	

1.4 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	LC1	Main member	9.65	0	-0.78	-0.6	0.01
	LC1	Continuous member	9.65	0	0.78	-0.6	0.01
	LC1	Connected member	1.56	0	0	0	0
56	CO1	Main member	13.16	0	-1.05	-0.81	0.01
	CO1	Continuous member	13.16	0	1.05	-0.81	0.01
	CO1	Connected member	2.11	0	0	0	0
56	LC2	Main member	8.36	0	0	0.03	0
	LC2	Continuous member	8.36	0	0	0.03	0
	LC2	Connected member	0	0	0	0	0
56	CO2	Main member	24.55	0	-1.05	-0.76	0.02
	CO2	Continuous member	24.55	0	1.05	-0.76	0.02



::LAV/team::

Page: 3/337

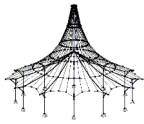
Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO2	Connected member	2.1	0	0	0	0
	LC3	Main member	2	0	0	0.01	0
	LC3	Continuous member	2	0	0	0.01	0
56	CO3	Connected member	0	0	0	0	0
	CO3	Main member	27.28	0	-1.05	-0.75	0.02
	CO3	Continuous member	27.28	0	1.05	-0.75	0.02
56	LC4	Connected member	2.11	0	0	0	0
	LC4	Main member	13.32	0	-0.01	0.04	0
	LC4	Continuous member	13.32	0	0.01	0.04	0
56	CO4	Connected member	0.01	0	0	0	0
	CO4	Main member	15.88	0	-1.05	-0.8	0.01
	CO4	Continuous member	15.88	0	1.05	-0.8	0.01
56	LC5	Connected member	2.11	0	0	0	0
	LC5	Main member	6.66	0	0	0.02	0
	LC5	Continuous member	6.66	0	0	0.02	0
56	CO5	Connected member	0.01	0	0	0	0
	CO5	Main member	33.36	0	-1.06	-0.74	0.02
	CO5	Continuous member	33.36	0	1.06	-0.74	0.02
56	LC6	Connected member	2.12	0	0	0	0
	LC6	Main member	-2.62	-0.03	-0.03	-0.06	0.21
	LC6	Continuous member	-2.64	0	-0.01	0.01	0.2
56	CO6	Connected member	0.03	0.03	0.02	0.07	0
	CO6	Main member	44.77	0	-1.06	-0.69	0.02
	CO6	Continuous member	44.77	0	1.06	-0.69	0.02
56	LC7	Connected member	2.12	0	0	0	0
	LC7	Main member	-21.82	-0.03	-0.05	-0.18	0.19
	LC7	Continuous member	-21.9	0	-0.03	-0.03	0.19
56	CO7	Connected member	0.02	0.02	0.08	0.15	0
	CO7	Main member	47.5	0	-1.06	-0.69	0.02
	CO7	Continuous member	47.5	0	1.06	-0.69	0.02
56	LC8	Connected member	2.12	0	0	0	0
	LC8	Main member	5.98	0	0.01	0.04	1.12
	LC8	Continuous member	5.98	0	-0.01	0.04	1.12
56	CO8	Connected member	-0.02	0	0	0	-0.03
	CO8	Main member	36.09	0	-1.06	-0.73	0.02
	CO8	Continuous member	36.09	0	1.06	-0.73	0.02
56	LC9	Connected member	2.12	0	0	0	0
	LC9	Main member	-8.07	0	0.04	0.03	1.1
	LC9	Continuous member	-8.07	0	-0.04	0.03	1.1
56	CO9	Connected member	-0.08	0	0	0	-0.03
	CO9	Main member	49.82	0	-1.06	-0.68	0.02
	CO9	Continuous member	49.82	0	1.06	-0.68	0.02
56	LC10	Connected member	2.12	0	0	0	0
	LC10	Main member	48.58	0	-1.07	-0.71	0.02
	LC10	Continuous member	48.54	0	1.05	-0.66	0.02
56	CO10	Connected member	2.12	0	0.03	0.05	0
	CO10	Main member	52.56	0	-1.06	-0.67	0.02
	CO10	Continuous member	52.56	0	1.06	-0.67	0.02
56	LC11	Connected member	2.12	0	0	0	0
	LC11	Main member	51.31	0	-1.07	-0.7	0.02
	LC11	Continuous member	51.27	0	1.05	-0.65	0.02
56	CO11	Connected member	2.12	0	0.03	0.05	0
	CO11	Main member	5.02	0	-0.02	-0.02	0
	CO11	Continuous member	4.97	0	-0.01	0.05	0
56	LC12	Connected member	0	0	0.04	0.06	0
	LC12	Main member	41.15	0	-1.06	-0.72	0.02
	LC12	Continuous member	41.15	0	1.06	-0.72	0.02
56	CO12	Connected member	2.13	0	0	0	0
	CO12	Main member	-8.37	0	0.04	0.03	1.11
	CO12	Continuous member	-8.37	0	-0.04	0.03	1.11
56	LC13	Connected member	-0.08	0	0	0	-0.03
	LC13	Main member	39.9	0	-1.07	-0.75	0.02
	LC13	Continuous member	39.87	0	1.05	-0.7	0.02
56	CO13	Connected member	2.13	0	0.03	0.05	0
	CO13	Main member	-26.34	0	0.06	-0.02	1.1
	CO13	Continuous member	-26.34	0	-0.06	-0.02	1.1
56	LC14	Connected member	-0.12	0	0	0	-0.03
	LC14	Main member	47.5	-0.03	-1.09	-0.74	0.19
	LC14	Continuous member	47.48	0	1.05	-0.67	0.19
56	CO14	Connected member	2.15	0.03	0.02	0.07	0
	CO14	Main member	-15.87	-0.01	0.08	0.05	1.03
	CO14	Continuous member	-15.87	0.01	-0.08	0.05	1.03
56	LC15	Connected member	-0.15	0.02	0	0	-0.02
	LC15	Main member	30.02	-0.03	-1.11	-0.84	0.19
	LC15	Continuous member	29.95	0	1.04	-0.7	0.18
56	CO15	Connected member	2.14	0.03	0.07	0.14	0
	CO15	Main member	-11.61	-0.03	0.02	0	0.2
	CO15	Continuous member	-11.52	0	0.04	-0.11	0.2
56	LC16	Connected member	0.02	0.02	-0.09	-0.11	0
	LC16	Main member	55.21	-0.02	-1.05	-0.64	1.02
	LC16	Continuous member	55.21	0.02	1.05	-0.64	1.02
56	CO16	Connected member	2.1	0.03	0	0	-0.03
	CO16	Main member	-12.2	-0.03	-0.1	-0.23	0.2
	CO16	Continuous member	-12.39	0	-0.07	0.09	0.2
56	LC17	Connected member	0.02	0.02	0.19	0.32	0
	LC17	Main member	42.34	-0.01	-1.02	-0.66	0.99
	LC17	Continuous member	42.34	0.01	1.02	-0.66	0.99
56	CO17	Connected member	2.05	0.02	0	0	-0.03
	CO17	Main member	42.07	-0.01	-1.02	-0.65	1
	CO17	Continuous member	42.07	0.01	1.02	-0.65	1
56	LC18	Connected member	2.05	0.02	0	0	-0.03
	LC18	Main member	25.71	-0.01	-1.01	-0.7	1
	LC18	Continuous member	25.71	0.01	1.01	-0.7	1
56	CO18	Connected member	2.02	0.02	0	0	-0.03
	CO18	Main member	42.07	-0.01	-1.02	-0.65	1
	CO18	Continuous member	42.07	0.01	1.02	-0.65	1



::LAV/team::

Page: 4/337

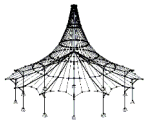
Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO21	Main member	35.14	-0.02	-0.99	-0.64	0.92
	CO21	Continuous member	35.14	0.02	0.99	-0.64	0.92
	CO21	Connected member	1.99	0.03	0	0	-0.02
56	CO22	Main member	39.32	-0.03	-1.04	-0.68	0.19
	CO22	Continuous member	39.4	0	1.09	-0.78	0.19
	CO22	Connected member	2.14	0.03	-0.08	-0.1	0
56	CO23	Main member	38.77	-0.03	-1.15	-0.89	0.19
	CO23	Continuous member	38.6	0	0.99	-0.59	0.19
	CO23	Connected member	2.15	0.03	0.17	0.3	0
56	CO24	Main member	46.25	-0.03	-1.1	-0.76	0.19
	CO24	Continuous member	46.2	0	1.04	-0.65	0.19
	CO24	Connected member	2.14	0.03	0.05	0.11	0
56	CO25	Main member	28.77	-0.03	-1.12	-0.87	0.19
	CO25	Continuous member	28.67	0	1.02	-0.68	0.18
	CO25	Connected member	2.14	0.03	0.1	-0.18	0
56	CO26	Main member	53.96	-0.02	-1.06	-0.67	1.02
	CO26	Continuous member	53.93	0.02	1.03	-0.62	1.02
	CO26	Connected member	2.09	0.03	0.03	0.05	-0.03
56	CO27	Main member	41.1	-0.01	-1.04	-0.68	0.99
	CO27	Continuous member	41.06	0.01	1.01	-0.64	0.99
	CO27	Connected member	2.05	0.02	0.03	0.05	-0.03
56	CO28	Main member	40.83	-0.01	-1.03	-0.68	1
	CO28	Continuous member	40.79	0.01	1.01	-0.63	1
	CO28	Connected member	2.05	0.02	0.03	0.05	-0.03
56	CO29	Main member	24.47	-0.01	-1.02	-0.73	1
	CO29	Continuous member	24.44	0.01	1	-0.68	1
	CO29	Connected member	2.02	0.01	0.03	0.05	-0.03
56	CO30	Main member	33.9	-0.02	-1	-0.66	0.92
	CO30	Continuous member	33.86	0.02	0.98	-0.62	0.92
	CO30	Connected member	1.99	0.03	0.03	0.05	-0.02
56	CO31	Main member	38.07	-0.03	-1.06	-0.71	0.19
	CO31	Continuous member	38.12	0	1.08	-0.76	0.19
	CO31	Connected member	2.14	0.03	-0.05	-0.05	0
56	CO32	Main member	37.53	-0.03	-1.16	-0.92	0.19
	CO32	Continuous member	37.32	0	0.98	-0.57	0.19
	CO32	Connected member	2.14	0.03	0.21	0.34	0
56	CO33	Main member	50.23	-0.03	-1.09	-0.73	0.19
	CO33	Continuous member	50.21	0	1.05	-0.66	0.19
	CO33	Connected member	2.15	0.03	0.02	0.07	0
56	CO34	Main member	32.75	-0.03	-1.11	-0.83	0.19
	CO34	Continuous member	32.68	0	1.04	-0.7	0.18
	CO34	Connected member	2.15	0.03	0.07	0.14	0
56	CO35	Main member	57.94	-0.02	-1.05	-0.63	1.02
	CO35	Continuous member	57.94	0.02	1.05	-0.63	1.02
	CO35	Connected member	2.1	0.04	0	0	-0.03
56	CO36	Main member	45.07	-0.01	-1.03	-0.65	0.99
	CO36	Continuous member	45.07	0.01	1.03	-0.65	0.99
	CO36	Connected member	2.05	0.03	0	0	-0.03
56	CO37	Main member	44.8	-0.01	-1.02	-0.65	1
	CO37	Continuous member	44.8	0.01	1.02	-0.65	1
	CO37	Connected member	2.05	0.03	0	0	-0.03
56	CO38	Main member	28.44	-0.01	-1.01	-0.69	1
	CO38	Continuous member	28.44	0.01	1.01	-0.69	1
	CO38	Connected member	2.03	0.02	0	0	-0.03
56	CO39	Main member	37.87	-0.02	-0.99	-0.63	0.92
	CO39	Continuous member	37.87	0.02	0.99	-0.63	0.92
	CO39	Connected member	1.99	0.03	0	0	-0.02
56	CO40	Main member	42.05	-0.03	-1.05	-0.67	0.19
	CO40	Continuous member	42.14	0	1.09	-0.77	0.19
	CO40	Connected member	2.14	0.03	-0.08	-0.1	0
56	CO41	Main member	41.5	-0.03	-1.15	-0.88	0.19
	CO41	Continuous member	41.33	0	1	-0.58	0.19
	CO41	Connected member	2.15	0.03	0.17	0.3	0
56	CO42	Main member	48.98	-0.03	-1.1	-0.75	0.19
	CO42	Continuous member	48.93	0	1.04	-0.64	0.19
	CO42	Connected member	2.15	0.03	0.05	0.11	0
56	CO43	Main member	31.5	-0.03	-1.12	-0.86	0.19
	CO43	Continuous member	31.4	0	1.02	-0.68	0.18
	CO43	Connected member	2.14	0.03	0.1	0.18	0
56	CO44	Main member	56.69	-0.02	-1.06	-0.66	1.02
	CO44	Continuous member	56.66	0.02	1.03	-0.61	1.02
	CO44	Connected member	2.1	0.03	0.03	0.05	-0.03
56	CO45	Main member	43.82	-0.01	-1.04	-0.68	0.99
	CO45	Continuous member	43.79	0.01	1.01	-0.63	0.99
	CO45	Connected member	2.05	0.02	0.03	0.05	-0.03
56	CO46	Main member	43.55	-0.01	-1.03	-0.67	1
	CO46	Continuous member	43.52	0.01	1.01	-0.63	1
	CO46	Connected member	2.05	0.03	0.03	0.05	-0.03
56	CO47	Main member	27.19	-0.01	-1.02	-0.72	1
	CO47	Continuous member	27.16	0.01	1	-0.67	1
	CO47	Connected member	2.02	0.02	0.03	0.05	-0.03
56	CO48	Main member	36.62	-0.02	-1.01	-0.66	0.92
	CO48	Continuous member	36.59	0.02	0.98	-0.61	0.92
	CO48	Connected member	1.99	0.03	0.03	0.05	-0.02
56	CO49	Main member	40.8	-0.03	-1.06	-0.7	0.19
	CO49	Continuous member	40.85	0	1.08	-0.75	0.19
	CO49	Connected member	2.14	0.03	-0.05	-0.05	0
56	CO50	Main member	40.26	-0.03	-1.16	-0.91	0.19
	CO50	Continuous member	40.05	0	0.98	-0.56	0.19
	CO50	Connected member	2.15	0.03	0.21	0.34	0
56	CO51	Main member	38.82	-0.03	-1.09	-0.77	0.19
	CO51	Continuous member	38.8	0	1.06	-0.71	0.19
	CO51	Connected member	2.15	0.03	0.02	0.07	0
56	CO52	Main member	21.35	-0.03	-1.11	-0.88	0.19



::LAV/team::

Page: 5/337

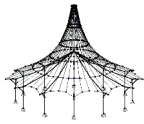
Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO52	Continuous member	21.28	0	1.04	-0.74	0.19
	CO52	Connected member	2.15	0.02	0.07	0.14	0
	CO53	Main member	46.53	-0.01	-1.05	-0.68	1.02
56	CO53	Continuous member	46.53	0.01	1.05	-0.68	1.02
	CO53	Connected member	2.1	0.03	0	0	-0.03
	CO54	Main member	33.67	-0.01	-1.03	-0.7	1
56	CO54	Continuous member	33.67	0.01	1.03	-0.7	1
	CO54	Connected member	2.06	0.02	0	0	-0.03
	CO55	Main member	33.4	-0.01	-1.03	-0.69	1.01
56	CO55	Continuous member	33.4	0.01	1.03	-0.69	1.01
	CO55	Connected member	2.05	0.02	0	0	-0.03
	CO56	Main member	17.05	-0.01	-1.01	-0.74	1.01
56	CO56	Continuous member	17.05	0.01	1.01	-0.74	1.01
	CO56	Connected member	2.03	0.01	0	0	-0.03
56	CO57	Main member	26.48	-0.01	-1	-0.68	0.93
	CO57	Continuous member	26.48	0.01	1	-0.68	0.93
	CO57	Connected member	1.99	0.03	0	0	-0.02
56	CO58	Main member	30.65	-0.03	-1.05	-0.72	0.19
	CO58	Continuous member	30.73	0	1.1	-0.82	0.19
	CO58	Connected member	2.15	0.03	-0.08	-0.1	0
56	CO59	Main member	30.1	-0.03	-1.15	-0.93	0.19
	CO59	Continuous member	29.93	0	1	-0.63	0.19
	CO59	Connected member	2.15	0.03	0.17	0.3	0
56	CO60	Main member	37.57	-0.03	-1.1	-0.8	0.19
	CO60	Continuous member	37.52	0	1.04	-0.69	0.19
	CO60	Connected member	2.15	0.03	0.05	0.11	0
56	CO61	Main member	20.1	-0.03	-1.12	-0.91	0.19
	CO61	Continuous member	20	0	1.03	-0.72	0.19
	CO61	Connected member	2.15	0.02	0.1	0.18	0
56	CO62	Main member	45.29	-0.01	-1.06	-0.71	1.02
	CO62	Continuous member	45.25	0.01	1.04	-0.66	1.02
	CO62	Connected member	2.1	0.03	0.03	0.05	-0.03
56	CO63	Main member	32.43	-0.01	-1.04	-0.72	1
	CO63	Continuous member	32.39	0.01	1.02	-0.68	1
	CO63	Connected member	2.06	0.02	0.03	0.05	-0.03
56	CO64	Main member	32.16	-0.01	-1.04	-0.72	1.01
	CO64	Continuous member	32.12	0.01	1.01	-0.67	1.01
	CO64	Connected member	2.05	0.02	0.03	0.05	-0.03
56	CO65	Main member	15.8	-0.01	-1.03	-0.77	1.01
	CO65	Continuous member	15.77	0	1	-0.72	1.01
	CO65	Connected member	2.03	0.01	0.03	0.05	-0.03
56	CO66	Main member	25.23	-0.01	-1.01	-0.7	0.93
	CO66	Continuous member	25.2	0.01	0.98	-0.66	0.93
	CO66	Connected member	1.99	0.03	0.03	0.05	-0.02
56	CO67	Main member	29.4	-0.03	-1.06	-0.75	0.19
	CO67	Continuous member	29.45	0	1.08	-0.8	0.19
	CO67	Connected member	2.15	0.03	-0.05	-0.05	0
56	CO68	Main member	28.85	-0.03	-1.16	-0.96	0.19
	CO68	Continuous member	28.65	0	0.99	-0.61	0.19
	CO68	Connected member	2.15	0.03	0.2	0.34	0
56	CO69	Main member	42.44	-0.03	-1.09	-0.75	0.19
	CO69	Continuous member	42.42	0	1.05	-0.69	0.19
	CO69	Connected member	2.14	0.03	0.02	0.07	0
56	CO70	Main member	24.97	-0.03	-1.1	-0.86	0.19
	CO70	Continuous member	24.9	0	1.03	-0.72	0.19
	CO70	Connected member	2.14	0.02	0.07	0.14	0
56	CO71	Main member	50.15	-0.02	-1.04	-0.66	1.02
	CO71	Continuous member	50.15	0.02	1.04	-0.66	1.02
	CO71	Connected member	2.09	0.03	0	0	-0.03
56	CO72	Main member	37.29	-0.01	-1.02	-0.67	0.99
	CO72	Continuous member	37.29	0.01	1.02	-0.67	0.99
	CO72	Connected member	2.05	0.02	0	0	-0.03
56	CO73	Main member	37.02	-0.01	-1.02	-0.67	1.01
	CO73	Continuous member	37.02	0.01	1.02	-0.67	1.01
	CO73	Connected member	2.04	0.02	0	0	-0.03
56	CO74	Main member	20.67	-0.01	-1.01	-0.72	1
	CO74	Continuous member	20.67	0.01	1.01	-0.72	1
	CO74	Connected member	2.02	0.01	0	0	-0.03
56	CO75	Main member	30.09	-0.02	-0.99	-0.65	0.92
	CO75	Continuous member	30.09	0.02	0.99	-0.65	0.92
	CO75	Connected member	1.98	0.03	0	0	-0.02
56	CO76	Main member	34.27	-0.03	-1.04	-0.7	0.19
	CO76	Continuous member	34.35	0	1.09	-0.8	0.19
	CO76	Connected member	2.14	0.03	-0.08	-0.1	0
56	CO77	Main member	33.72	-0.03	-1.15	-0.91	0.19
	CO77	Continuous member	33.55	0	0.99	-0.61	0.19
	CO77	Connected member	2.14	0.03	0.17	0.3	0
56	CO78	Main member	45.17	-0.03	-1.09	-0.74	0.19
	CO78	Continuous member	45.15	0	1.05	-0.68	0.19
	CO78	Connected member	2.14	0.03	0.02	0.07	0
56	CO79	Main member	27.7	-0.03	-1.1	-0.85	0.19
	CO79	Continuous member	27.63	0	1.03	-0.71	0.18
	CO79	Connected member	2.14	0.02	0.07	0.14	0
56	CO80	Main member	52.88	-0.02	-1.05	-0.65	1.02
	CO80	Continuous member	52.88	0.02	1.05	-0.65	1.02
	CO80	Connected member	2.09	0.03	0	0	-0.03
56	CO81	Main member	40.02	-0.01	-1.02	-0.66	0.99
	CO81	Continuous member	40.02	0.01	1.02	-0.66	0.99
	CO81	Connected member	2.05	0.02	0	0	-0.03
56	CO82	Main member	39.75	-0.01	-1.02	-0.66	1
	CO82	Continuous member	39.75	0.01	1.02	-0.66	1
	CO82	Connected member	2.05	0.02	0	0	-0.03
56	CO83	Main member	23.39	-0.01	-1.01	-0.71	1
	CO83	Continuous member	23.39	0.01	1.01	-0.71	1



::LAV/team::

Page: 6/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO83	Connected member	2.02	0.01	0	0	-0.03
	CO84	Main member	32.82	-0.02	-0.99	-0.64	0.92
	CO84	Continuous member	32.82	0.02	0.99	-0.64	0.92
56	CO84	Connected member	1.99	0.03	0	0	-0.02
	CO85	Main member	37	-0.03	-1.04	-0.69	0.19
	CO85	Continuous member	37.08	0	1.09	-0.79	0.19
56	CO85	Connected member	2.14	0.03	-0.08	-0.1	0
	CO86	Main member	36.45	-0.03	-1.15	-0.9	0.19
	CO86	Continuous member	36.28	0	0.99	-0.6	0.19
56	CO86	Connected member	2.14	0.03	0.17	0.3	0
	CO87	Main member	33.77	-0.03	-1.09	-0.79	0.19
	CO87	Continuous member	33.74	0	1.06	-0.73	0.19
56	CO87	Connected member	2.15	0.03	0.02	0.06	0
	CO88	Main member	16.3	-0.03	-1.11	-0.9	0.19
	CO88	Continuous member	16.23	0	1.04	-0.76	0.19
56	CO88	Connected member	2.14	0.02	0.07	0.14	0
	CO89	Main member	41.48	-0.01	-1.05	-0.7	1.02
	CO89	Continuous member	41.48	0.01	1.05	-0.7	1.02
56	CO89	Connected member	2.1	0.03	0	0	-0.03
	CO90	Main member	28.62	-0.01	-1.03	-0.71	1
	CO90	Continuous member	28.62	0.01	1.03	-0.71	1
56	CO90	Connected member	2.05	0.02	0	0	-0.03
	CO91	Main member	28.35	-0.01	-1.02	-0.71	1.01
	CO91	Continuous member	28.35	0.01	1.02	-0.71	1.01
56	CO91	Connected member	2.05	0.02	0	0	-0.03
	CO92	Main member	12	0	-1.01	-0.76	1.01
	CO92	Continuous member	12	0	1.01	-0.76	1.01
56	CO92	Connected member	2.02	0.01	0	0	-0.03
	CO93	Main member	21.43	-0.01	-0.99	-0.69	0.93
	CO93	Continuous member	21.43	0.01	0.99	-0.69	0.93
56	CO93	Connected member	1.99	0.03	0	0	-0.02
	CO94	Main member	25.59	-0.03	-1.05	-0.74	0.19
	CO94	Continuous member	25.68	0	1.09	-0.83	0.19
56	CO94	Connected member	2.14	0.03	-0.08	-0.1	0
	CO95	Main member	25.05	-0.03	-1.15	-0.94	0.19
	CO95	Continuous member	24.87	0	1	-0.65	0.19
56	CO95	Connected member	2.15	0.03	0.17	0.29	0
	CO96	Main member	38.42	0	-1.06	-0.73	0.02
	CO96	Continuous member	38.42	0	1.06	-0.73	0.02
56	CO96	Connected member	2.13	0	0	0	0
	CO97	Main member	37.17	0	-1.07	-0.75	0.02
	CO97	Continuous member	37.14	0	1.05	-0.71	0.02
56	CO97	Connected member	2.12	0	0.03	0.05	0
	CO98	Main member	36.09	-0.03	-1.09	-0.78	0.19
	CO98	Continuous member	36.07	0	1.06	-0.72	0.19
56	CO98	Connected member	2.15	0.03	0.02	0.07	0
	CO99	Main member	18.62	-0.03	-1.11	-0.89	0.19
	CO99	Continuous member	18.55	0	1.04	-0.75	0.19
56	CO99	Connected member	2.15	0.02	0.07	0.14	0
	CO100	Main member	43.8	-0.01	-1.05	-0.69	1.02
	CO100	Continuous member	43.8	0.01	1.05	-0.69	1.02
56	CO100	Connected member	2.1	0.03	0	0	-0.03
	CO101	Main member	30.95	-0.01	-1.03	-0.7	1
	CO101	Continuous member	30.95	0.01	1.03	-0.7	1
56	CO101	Connected member	2.06	0.02	0	0	-0.03
	CO102	Main member	30.68	-0.01	-1.02	-0.7	1.01
	CO102	Continuous member	30.68	0.01	1.02	-0.7	1.01
56	CO102	Connected member	2.05	0.02	0	0	-0.03
	CO103	Main member	14.33	0	-1.01	-0.75	1.01
	CO103	Continuous member	14.33	0	1.01	-0.75	1.01
56	CO103	Connected member	2.03	0.01	0	0	-0.03
	CO104	Main member	23.75	-0.01	-0.99	-0.68	0.93
	CO104	Continuous member	23.75	0.01	0.99	-0.68	0.93
56	CO104	Connected member	1.99	0.03	0	0	-0.02
	CO105	Main member	27.92	-0.03	-1.05	-0.73	0.19
	CO105	Continuous member	28	0	1.1	-0.83	0.19
56	CO105	Connected member	2.14	0.03	-0.08	-0.1	0
	CO106	Main member	27.37	-0.03	-1.15	-0.94	0.19
	CO106	Continuous member	27.2	0	1	-0.64	0.19
56	CO106	Connected member	2.15	0.03	0.17	0.29	0
	CO107	Main member	34.84	-0.03	-1.1	-0.81	0.19
	CO107	Continuous member	34.79	0	1.04	-0.7	0.19
56	CO107	Connected member	2.15	0.03	0.05	0.11	0
	CO108	Main member	17.38	-0.03	-1.12	-0.92	0.19
	CO108	Continuous member	17.27	0	1.03	-0.73	0.19
56	CO108	Connected member	2.15	0.02	0.1	0.18	0
	CO109	Main member	42.56	-0.01	-1.06	-0.72	1.02
	CO109	Continuous member	42.52	0.01	1.04	-0.67	1.02
56	CO109	Connected member	2.1	0.03	0.03	0.05	-0.03
	CO110	Main member	29.7	-0.01	-1.04	-0.73	1
	CO110	Continuous member	29.67	0.01	1.01	-0.68	1
56	CO110	Connected member	2.05	0.02	0.03	0.05	-0.03
	CO111	Main member	29.43	-0.01	-1.04	-0.73	1.01
	CO111	Continuous member	29.4	0.01	1.01	-0.68	1.01
56	CO111	Connected member	2.05	0.02	0.03	0.05	-0.03
	CO112	Main member	13.08	0	-1.02	-0.78	1.01
	CO112	Continuous member	13.05	0	1	-0.73	1.01
56	CO112	Connected member	2.03	0.01	0.03	0.05	-0.03
	CO113	Main member	22.51	-0.01	-1.01	-0.71	0.93
	CO113	Continuous member	22.48	0.01	0.98	-0.66	0.93
56	CO113	Connected member	1.99	0.03	0.03	0.05	-0.02
	CO114	Main member	26.67	-0.03	-1.06	-0.76	0.19
	CO114	Continuous member	26.72	0	1.08	-0.81	0.19
56	CO114	Connected member	2.14	0.03	-0.05	-0.05	0



::LAV/team::

Page: 7/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO115	Main member	26.12	-0.03	-1.16	-0.96	0.19
	CO115	Continuous member	25.92	0	0.98	-0.62	0.19
	CO115	Connected member	2.15	0.03	0.2	0.34	0
56	CO116	Main member	31.04	-0.03	-1.09	-0.8	0.19
	CO116	Continuous member	31.02	0	1.05	-0.74	0.19
	CO116	Connected member	2.15	0.03	0.02	0.06	0
56	CO117	Main member	13.57	-0.03	-1.11	-0.91	0.19
	CO117	Continuous member	13.5	0	1.04	-0.77	0.19
	CO117	Connected member	2.14	0.02	0.07	0.14	0
56	CO118	Main member	38.75	-0.01	-1.05	-0.71	1.02
	CO118	Continuous member	38.75	0.01	1.05	-0.71	1.02
	CO118	Connected member	2.1	0.02	0	0	-0.03
56	CO119	Main member	25.9	-0.01	-1.03	-0.72	1
	CO119	Continuous member	25.9	0.01	1.03	-0.72	1
	CO119	Connected member	2.05	0.02	0	0	-0.03
56	CO120	Main member	25.63	-0.01	-1.02	-0.72	1.01
	CO120	Continuous member	25.63	0.01	1.02	-0.72	1.01
	CO120	Connected member	2.05	0.02	0	0	-0.03
56	CO121	Main member	9.28	0	-1.01	-0.76	1.01
	CO121	Continuous member	9.28	0	1.01	-0.76	1.01
	CO121	Connected member	2.02	0.01	0	0	-0.03
56	CO122	Main member	18.71	-0.01	-0.99	-0.7	0.93
	CO122	Continuous member	18.71	0.01	0.99	-0.7	0.93
	CO122	Connected member	1.99	0.02	0	0	-0.02
56	CO123	Main member	22.87	-0.03	-1.05	-0.75	0.19
	CO123	Continuous member	22.95	0	1.09	-0.84	0.19
	CO123	Connected member	2.14	0.03	-0.08	-0.1	0
56	CO124	Main member	22.32	-0.03	-1.15	-0.95	0.19
	CO124	Continuous member	22.15	0	1	-0.66	0.19
	CO124	Connected member	2.15	0.03	0.17	0.29	0
56	CO125	Main member	23.26	0	-1.06	-0.78	0.02
	CO125	Continuous member	23.26	0	1.06	-0.78	0.02
	CO125	Connected member	2.11	0	0	0	0
56	CO126	Main member	20.76	0	-1.08	-0.83	0.01
	CO126	Continuous member	20.7	0	1.03	-0.74	0.01
	CO126	Connected member	2.11	0	0.06	0.1	0
56	CO127	Main member	34.66	0	-1.05	-0.73	0.02
	CO127	Continuous member	34.66	0	1.05	-0.73	0.02
	CO127	Connected member	2.11	0	0	0	0
56	CO128	Main member	32.16	0	-1.08	-0.79	0.02
	CO128	Continuous member	32.1	0	1.03	-0.69	0.02
	CO128	Connected member	2.11	0	0.06	0.1	0
56	CO129	Main member	37.39	0	-1.06	-0.72	0.02
	CO129	Continuous member	37.39	0	1.06	-0.72	0.02
	CO129	Connected member	2.11	0	0	0	0
56	CO130	Main member	34.89	0	-1.08	-0.78	0.02
	CO130	Continuous member	34.83	0	1.03	-0.68	0.02
	CO130	Connected member	2.11	0	0.07	0.1	0
56	CO131	Main member	25.99	0	-1.06	-0.77	0.02
	CO131	Continuous member	25.99	0	1.06	-0.77	0.02
	CO131	Connected member	2.12	0	0	0	0
56	CO132	Main member	23.49	0	-1.08	-0.82	0.02
	CO132	Continuous member	23.43	0	1.03	-0.73	0.02
	CO132	Connected member	2.11	0	0.06	0.1	0
56	CO133	Main member	32.33	-0.03	-1.09	-0.79	0.19
	CO133	Continuous member	32.31	0	1.05	-0.72	0.19
	CO133	Connected member	2.14	0.03	0.02	0.06	0
56	CO134	Main member	14.87	-0.03	-1.1	-0.89	0.19
	CO134	Continuous member	14.8	0	1.03	-0.76	0.19
	CO134	Connected member	2.13	0.02	0.07	0.14	0
56	CO135	Main member	40.04	-0.01	-1.04	-0.69	1.02
	CO135	Continuous member	40.04	0.01	1.04	-0.69	1.02
	CO135	Connected member	2.09	0.03	0	0	-0.03
56	CO136	Main member	27.19	-0.01	-1.02	-0.71	1
	CO136	Continuous member	27.19	0.01	1.02	-0.71	1
	CO136	Connected member	2.04	0.02	0	0	-0.03
56	CO137	Main member	26.92	-0.01	-1.02	-0.71	1.01
	CO137	Continuous member	26.92	0.01	1.02	-0.71	1.01
	CO137	Connected member	2.04	0.02	0	0	-0.03
56	CO138	Main member	10.57	0	-1.01	-0.75	1.01
	CO138	Continuous member	10.57	0	1.01	-0.75	1.01
	CO138	Connected member	2.01	0.01	0	0	-0.03
56	CO139	Main member	20	-0.01	-0.99	-0.69	0.93
	CO139	Continuous member	20	0.01	0.99	-0.69	0.93
	CO139	Connected member	1.98	0.03	0	0	-0.02
56	CO140	Main member	24.16	-0.03	-1.04	-0.73	0.19
	CO140	Continuous member	24.24	0	1.09	-0.83	0.19
	CO140	Connected member	2.13	0.03	-0.08	-0.1	0
56	CO141	Main member	23.61	-0.03	-1.14	-0.94	0.19
	CO141	Continuous member	23.44	0	0.99	-0.64	0.19
	CO141	Connected member	2.14	0.03	0.17	0.29	0
56	CO142	Main member	29.83	-0.03	-1.11	-0.84	0.19
	CO142	Continuous member	29.75	0	1.02	-0.68	0.19
	CO142	Connected member	2.13	0.03	0.09	0.16	0
56	CO143	Main member	12.37	-0.03	-1.12	-0.95	0.19
	CO143	Continuous member	12.24	0	1.01	-0.72	0.19
	CO143	Connected member	2.13	0.02	0.13	0.23	0
56	CO144	Main member	37.55	-0.01	-1.07	-0.75	1.02
	CO144	Continuous member	37.48	0.01	1.02	-0.65	1.02
	CO144	Connected member	2.09	0.02	0.06	0.1	-0.03
56	CO145	Main member	24.7	-0.01	-1.04	-0.76	1
	CO145	Continuous member	24.63	0.01	0.99	-0.67	1
	CO145	Connected member	2.04	0.01	0.06	0.1	-0.03
56	CO146	Main member	24.43	-0.01	-1.04	-0.76	1.01



::LAV/team::

Page: 8/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO146	Continuous member	24.36	0.01	0.99	-0.67	1.01
	CO146	Connected member	2.04	0.02	0.06	0.1	-0.03
	CO147	Main member	8.08	0	-1.03	-0.81	1.01
56	CO147	Continuous member	8.02	0	0.98	-0.71	1.01
	CO147	Connected member	2.01	0.01	0.06	0.1	-0.03
	CO148	Main member	17.51	-0.01	-1.01	-0.74	0.93
56	CO148	Continuous member	17.45	0.01	0.96	-0.65	0.93
	CO148	Connected member	1.97	0.02	0.06	0.1	-0.02
	CO149	Main member	21.66	-0.03	-1.06	-0.79	0.19
56	CO149	Continuous member	21.68	0	1.06	-0.79	0.19
	CO149	Connected member	2.13	0.03	-0.02	0	0
	CO150	Main member	21.12	-0.03	-1.17	-1	0.19
56	CO150	Continuous member	20.88	0	0.97	-0.6	0.19
	CO150	Connected member	2.13	0.03	0.24	0.39	0
	CO151	Main member	35.06	-0.03	-1.09	-0.78	0.19
56	CO151	Continuous member	35.04	0	1.05	-0.71	0.19
	CO151	Connected member	2.14	0.03	0.02	0.06	0
	CO152	Main member	17.59	-0.03	-1.1	-0.88	0.19
56	CO152	Continuous member	17.52	0	1.03	-0.75	0.19
	CO152	Connected member	2.13	0.02	0.07	0.14	0
	CO153	Main member	42.77	-0.01	-1.04	-0.68	1.02
56	CO153	Continuous member	42.77	0.01	1.04	-0.68	1.02
	CO153	Connected member	2.09	0.03	0	0	-0.03
	CO154	Main member	29.92	-0.01	-1.02	-0.7	1
56	CO154	Continuous member	29.92	0.01	1.02	-0.7	1
	CO154	Connected member	2.04	0.02	0	0	-0.03
	CO155	Main member	29.65	-0.01	-1.02	-0.7	1.01
56	CO155	Continuous member	29.65	0.01	1.02	-0.7	1.01
	CO155	Connected member	2.04	0.02	0	0	-0.03
	CO156	Main member	13.3	0	-1.01	-0.74	1.01
56	CO156	Continuous member	13.3	0	1.01	-0.74	1.01
	CO156	Connected member	2.01	0.01	0	0	-0.03
	CO157	Main member	22.73	-0.01	-0.99	-0.68	0.92
56	CO157	Continuous member	22.73	0.01	0.99	-0.68	0.92
	CO157	Connected member	1.98	0.03	0	0	-0.02
	CO158	Main member	26.89	-0.03	-1.04	-0.72	0.19
56	CO158	Continuous member	26.97	0	1.09	-0.82	0.19
	CO158	Connected member	2.13	0.03	-0.08	-0.1	0
	CO159	Main member	26.34	-0.03	-1.14	-0.93	0.19
56	CO159	Continuous member	26.17	0	0.99	-0.64	0.19
	CO159	Connected member	2.14	0.03	0.17	0.29	0
	CO160	Main member	32.56	-0.03	-1.11	-0.83	0.19
56	CO160	Continuous member	32.48	0	1.02	-0.67	0.19
	CO160	Connected member	2.14	0.03	0.09	0.16	0
	CO161	Main member	15.1	-0.03	-1.12	-0.94	0.19
56	CO161	Continuous member	14.96	0	1.01	-0.71	0.19
	CO161	Connected member	2.13	0.02	0.13	0.23	0
	CO162	Main member	40.28	-0.01	-1.07	-0.74	1.02
56	CO162	Continuous member	40.21	0.01	1.02	-0.64	1.02
	CO162	Connected member	2.09	0.03	0.06	0.1	-0.03
	CO163	Main member	27.42	-0.01	-1.04	-0.75	1
56	CO163	Continuous member	27.36	0.01	1	-0.66	1
	CO163	Connected member	2.04	0.02	0.06	0.1	-0.03
	CO164	Main member	27.15	-0.01	-1.04	-0.75	1.01
56	CO164	Continuous member	27.09	0.01	0.99	-0.66	1.01
	CO164	Connected member	2.04	0.02	0.06	0.1	-0.03
	CO165	Main member	10.81	0	-1.03	-0.8	1.01
56	CO165	Continuous member	10.74	0	0.98	-0.7	1.01
	CO165	Connected member	2.01	0.01	0.06	0.1	-0.03
	CO166	Main member	20.24	-0.01	-1.01	-0.73	0.93
56	CO166	Continuous member	20.17	0.01	0.96	-0.64	0.93
	CO166	Connected member	1.98	0.03	0.06	0.1	-0.02
	CO167	Main member	24.39	-0.03	-1.06	-0.78	0.19
56	CO167	Continuous member	24.41	0	1.06	-0.78	0.19
	CO167	Connected member	2.13	0.03	-0.02	0	0
	CO168	Main member	23.84	-0.03	-1.17	-0.99	0.19
56	CO168	Continuous member	23.61	0	0.97	-0.6	0.19
	CO168	Connected member	2.14	0.03	0.24	0.39	0
	CO169	Main member	23.66	-0.03	-1.09	-0.83	0.19
56	CO169	Continuous member	23.64	0	1.05	-0.76	0.19
	CO169	Connected member	2.14	0.03	0.02	0.06	0
	CO170	Main member	6.2	-0.03	-1.1	-0.93	0.19
56	CO170	Continuous member	6.13	0	1.03	-0.79	0.19
	CO170	Connected member	2.14	0.02	0.07	0.13	0
	CO171	Main member	31.37	-0.01	-1.05	-0.73	1.02
56	CO171	Continuous member	31.37	0.01	1.05	-0.73	1.02
	CO171	Connected member	2.09	0.02	0	0	-0.03
	CO172	Main member	18.52	-0.01	-1.02	-0.75	1
56	CO172	Continuous member	18.52	0.01	1.02	-0.75	1
	CO172	Connected member	2.05	0.01	0	0	-0.03
	CO173	Main member	18.26	-0.01	-1.02	-0.74	1.01
56	CO173	Continuous member	18.26	0.01	1.02	-0.74	1.01
	CO173	Connected member	2.04	0.01	0	0	-0.03
	CO174	Main member	1.91	0	-1.01	-0.79	1.01
56	CO174	Continuous member	1.91	0	1.01	-0.79	1.01
	CO174	Connected member	2.01	0	0	0	-0.03
	CO175	Main member	11.34	-0.01	-0.99	-0.72	0.93
56	CO175	Continuous member	11.34	0.01	0.99	-0.72	0.93
	CO175	Connected member	1.98	0.02	0	0	-0.02
	CO176	Main member	15.49	-0.03	-1.04	-0.77	0.19
56	CO176	Continuous member	15.57	0	1.09	-0.87	0.19
	CO176	Connected member	2.14	0.02	-0.08	-0.1	0
	CO177	Main member	14.94	-0.03	-1.15	-0.98	0.19
56	CO177	Continuous member	14.77	0	0.99	-0.68	0.19



::LAV/team::

Page: 9/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO177	Connected member	2.14	0.02	0.17	0.29	0
	CO178	Main member	21.17	-0.03	-1.11	-0.88	0.19
	CO178	Continuous member	21.08	0	1.03	-0.72	0.19
56	CO178	Connected member	2.14	0.03	0.09	0.16	0
	CO179	Main member	3.71	-0.03	-1.12	-0.99	0.19
	CO179	Continuous member	3.57	0	1.01	-0.75	0.19
56	CO179	Connected member	2.13	0.02	0.13	0.23	0
	CO180	Main member	28.88	-0.01	-1.07	-0.79	1.03
	CO180	Continuous member	28.81	0.01	1.02	-0.69	1.03
56	CO180	Connected member	2.09	0.02	0.06	0.1	-0.03
	CO181	Main member	16.03	-0.01	-1.05	-0.8	1
	CO181	Continuous member	15.97	0	1	-0.71	1
56	CO181	Connected member	2.04	0.01	0.06	0.1	-0.03
	CO182	Main member	15.76	-0.01	-1.04	-0.8	1.01
	CO182	Continuous member	15.7	0	1	-0.7	1.01
56	CO182	Connected member	2.04	0.01	0.06	0.1	-0.03
	CO183	Main member	-0.57	0	-1.03	-0.84	1.01
	CO183	Continuous member	-0.64	0	0.98	-0.75	1.01
56	CO183	Connected member	2.01	0	0.06	0.1	-0.03
	CO184	Main member	8.85	-0.01	-1.01	-0.78	0.93
	CO184	Continuous member	8.79	0.01	0.97	-0.69	0.93
56	CO184	Connected member	1.98	0.02	0.06	0.1	-0.02
	CO185	Main member	13	-0.03	-1.07	-0.83	0.19
	CO185	Continuous member	13.02	0	1.07	-0.83	0.19
56	CO185	Connected member	2.13	0.02	-0.02	0	0
	CO186	Main member	12.45	-0.03	-1.17	-1.03	0.19
	CO186	Continuous member	12.21	0	0.97	-0.64	0.19
56	CO186	Connected member	2.14	0.02	0.24	0.39	0
	CO187	Main member	20.93	-0.03	-1.09	-0.83	0.19
	CO187	Continuous member	20.91	0	1.05	-0.77	0.19
56	CO187	Connected member	2.14	0.03	0.02	0.06	0
	CO188	Main member	3.47	-0.03	-1.1	-0.94	0.19
	CO188	Continuous member	3.41	0	1.03	-0.8	0.19
56	CO188	Connected member	2.13	0.02	0.07	0.13	0
	CO189	Main member	28.64	-0.01	-1.04	-0.74	1.03
	CO189	Continuous member	28.64	0.01	1.04	-0.74	1.03
56	CO189	Connected member	2.09	0.02	0	0	-0.03
	CO190	Main member	15.8	0	-1.02	-0.76	1
	CO190	Continuous member	15.8	0	1.02	-0.76	1
56	CO190	Connected member	2.04	0.01	0	0	-0.03
	CO191	Main member	15.53	-0.01	-1.02	-0.75	1.01
	CO191	Continuous member	15.53	0.01	1.02	-0.75	1.01
56	CO191	Connected member	2.04	0.01	0	0	-0.03
	CO192	Main member	-0.81	0	-1.01	-0.8	1.01
	CO192	Continuous member	-0.81	0	1.01	-0.8	1.01
56	CO192	Connected member	2.01	0	0	0	-0.03
	CO193	Main member	8.62	-0.01	-0.99	-0.73	0.93
	CO193	Continuous member	8.62	0.01	0.99	-0.73	0.93
56	CO193	Connected member	1.98	0.02	0	0	-0.02
	CO194	Main member	12.76	-0.03	-1.04	-0.78	0.19
	CO194	Continuous member	12.85	0	1.09	-0.88	0.19
56	CO194	Connected member	2.13	0.02	-0.08	-0.1	0
	CO195	Main member	12.22	-0.03	-1.14	-0.99	0.19
	CO195	Continuous member	12.05	0	0.99	-0.69	0.19
56	CO195	Connected member	2.14	0.02	0.17	0.29	0
	CO196	Main member	18.44	-0.03	-1.11	-0.89	0.19
	CO196	Continuous member	18.35	0	1.03	-0.73	0.19
56	CO196	Connected member	2.14	0.03	0.09	0.16	0
	CO197	Main member	0.98	-0.03	-1.12	-0.99	0.19
	CO197	Continuous member	0.85	0	1.01	-0.76	0.19
56	CO197	Connected member	2.13	0.02	0.13	0.23	0
	CO198	Main member	26.15	-0.01	-1.07	-0.8	1.03
	CO198	Continuous member	26.08	0.01	1.02	-0.7	1.03
56	CO198	Connected member	2.09	0.02	0.06	0.1	-0.03
	CO199	Main member	13.31	0	-1.04	-0.81	1
	CO199	Continuous member	13.24	0	1	-0.72	1
56	CO199	Connected member	2.04	0.01	0.06	0.1	-0.03
	CO200	Main member	13.04	-0.01	-1.04	-0.81	1.01
	CO200	Continuous member	12.98	0	0.99	-0.71	1.01
56	CO200	Connected member	2.04	0.01	0.06	0.1	-0.03
	CO201	Main member	-3.3	0	-1.03	-0.85	1.01
	CO201	Continuous member	-3.36	0	0.98	-0.76	1.01
56	CO201	Connected member	2.01	0	0.06	0.1	-0.03
	CO202	Main member	6.13	-0.01	-1.01	-0.79	0.93
	CO202	Continuous member	6.07	0.01	0.96	-0.69	0.93
56	CO202	Connected member	1.98	0.02	0.06	0.1	-0.02
	CO203	Main member	10.27	-0.03	-1.07	-0.84	0.19
	CO203	Continuous member	10.29	0	1.06	-0.84	0.19
56	CO203	Connected member	2.13	0.02	-0.02	0	0
	CO204	Main member	9.72	-0.03	-1.17	-1.04	0.19
	CO204	Continuous member	9.49	0	0.97	-0.65	0.19
56	CO204	Connected member	2.14	0.02	0.23	0.39	0
	CO205	Main member	9.29	-0.04	-1.1	-0.91	0.31
	CO205	Continuous member	9.26	0	1.04	-0.8	0.31
56	CO205	Connected member	2.15	0.04	0.04	0.11	0
	CO206	Main member	-19.78	-0.04	-1.12	-1.08	0.31
	CO206	Continuous member	-19.89	-0.01	1.01	-0.85	0.31
56	CO206	Connected member	2.13	0.04	0.11	0.22	0
	CO207	Main member	22.13	-0.01	-1.03	-0.75	1.69
	CO207	Continuous member	22.13	0.01	1.03	-0.75	1.69
56	CO207	Connected member	2.07	0.02	0	0	-0.05
	CO208	Main member	0.75	0	-0.99	-0.77	1.65
	CO208	Continuous member	0.75	0	0.99	-0.77	1.65
56	CO208	Connected member	1.99	0	0	0	-0.04



::LAV/team::

Page: 10/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO209	Main member	0.3	0	-0.99	-0.77	1.67
	CO209	Continuous member	0.3	0	0.99	-0.77	1.67
	CO209	Connected member	1.98	0	0	0	-0.04
56	CO210	Main member	-26.9	0.01	-0.97	-0.84	1.68
	CO210	Continuous member	-26.9	-0.01	0.97	-0.84	1.68
	CO210	Connected member	1.93	-0.02	0	0	-0.04
56	CO211	Main member	-11.19	-0.01	-0.94	-0.74	1.53
	CO211	Continuous member	-11.19	0.01	0.94	-0.74	1.53
	CO211	Connected member	1.88	0.02	0	0	-0.03
56	CO212	Main member	-4.31	-0.04	-1.03	-0.82	0.31
	CO212	Continuous member	-4.17	0	1.11	-0.98	0.31
	CO212	Connected member	2.14	0.04	-0.14	-0.16	0
56	CO213	Main member	-5.23	-0.04	-1.2	-1.16	0.31
	CO213	Continuous member	-5.51	-0.01	0.95	-0.67	0.31
	CO213	Connected member	2.14	0.04	0.28	0.49	0
56	CO214	Main member	20.69	-0.04	-1.1	-0.86	0.31
	CO214	Continuous member	20.65	0	1.04	-0.75	0.31
	CO214	Connected member	2.15	0.04	0.04	0.11	0
56	CO215	Main member	-8.4	-0.04	-1.12	-1.03	0.31
	CO215	Continuous member	-8.51	-0.01	1.01	-0.81	0.3
	CO215	Connected member	2.13	0.04	0.11	0.22	0
56	CO216	Main member	33.52	-0.02	-1.03	-0.7	1.68
	CO216	Continuous member	33.52	0.02	1.03	-0.7	1.68
	CO216	Connected member	2.06	0.03	0	0	-0.05
56	CO217	Main member	12.12	-0.01	-0.99	-0.73	1.64
	CO217	Continuous member	12.12	0.01	0.99	-0.73	1.64
	CO217	Connected member	1.99	0.01	0	0	-0.04
56	CO218	Main member	11.68	-0.01	-0.99	-0.72	1.66
	CO218	Continuous member	11.68	0.01	0.99	-0.72	1.66
	CO218	Connected member	1.98	0.01	0	0	-0.04
56	CO219	Main member	-15.54	0.01	-0.97	-0.8	1.67
	CO219	Continuous member	-15.54	-0.01	0.97	-0.8	1.67
	CO219	Connected member	1.93	-0.01	0	0	-0.04
56	CO220	Main member	0.17	-0.01	-0.94	-0.69	1.52
	CO220	Continuous member	0.17	0.01	0.94	-0.69	1.52
	CO220	Connected member	1.88	0.03	0	0	-0.03
56	CO221	Main member	7.08	-0.04	-1.03	-0.77	0.31
	CO221	Continuous member	7.22	0	1.11	-0.93	0.31
	CO221	Connected member	2.13	0.04	-0.14	-0.16	0
56	CO222	Main member	6.16	-0.04	-1.2	-1.11	0.31
	CO222	Continuous member	5.87	-0.01	0.94	-0.62	0.31
	CO222	Connected member	2.14	0.04	0.28	0.49	0
56	CO223	Main member	23.41	-0.04	-1.1	-0.85	0.31
	CO223	Continuous member	23.38	0	1.04	-0.74	0.31
	CO223	Connected member	2.15	0.04	0.04	0.11	0
56	CO224	Main member	-5.68	-0.04	-1.13	-1.02	0.31
	CO224	Continuous member	-5.79	-0.01	1.01	-0.8	0.3
	CO224	Connected member	2.14	0.04	0.11	0.22	0
56	CO225	Main member	36.25	-0.02	-1.03	-0.69	1.68
	CO225	Continuous member	36.25	0.02	1.03	-0.69	1.68
	CO225	Connected member	2.07	0.04	0	0	-0.05
56	CO226	Main member	14.85	-0.01	-0.99	-0.72	1.64
	CO226	Continuous member	14.85	0.01	0.99	-0.72	1.64
	CO226	Connected member	1.99	0.01	0	0	-0.04
56	CO227	Main member	14.4	-0.01	-0.99	-0.71	1.66
	CO227	Continuous member	14.4	0.01	0.99	-0.71	1.66
	CO227	Connected member	1.98	0.01	0	0	-0.04
56	CO228	Main member	-12.82	0.01	-0.97	-0.79	1.67
	CO228	Continuous member	-12.82	-0.01	0.97	-0.79	1.67
	CO228	Connected member	1.93	-0.01	0	0	-0.04
56	CO229	Main member	2.89	-0.01	-0.94	-0.68	1.51
	CO229	Continuous member	2.89	0.01	0.94	-0.68	1.51
	CO229	Connected member	1.88	0.03	0	0	-0.03
56	CO230	Main member	9.81	-0.04	-1.03	-0.76	0.31
	CO230	Continuous member	9.94	0	1.11	-0.92	0.31
	CO230	Connected member	2.14	0.04	-0.14	-0.16	0
56	CO231	Main member	8.88	-0.04	-1.2	-1.1	0.31
	CO231	Continuous member	8.6	-0.01	0.95	-0.61	0.31
	CO231	Connected member	2.14	0.04	0.28	0.49	0
56	CO232	Main member	12.02	-0.04	-1.1	-0.9	0.31
	CO232	Continuous member	11.98	0	1.04	-0.79	0.31
	CO232	Connected member	2.15	0.04	0.04	0.11	0
56	CO233	Main member	-17.06	-0.04	-1.13	-1.07	0.31
	CO233	Continuous member	-17.17	-0.01	1.01	-0.84	0.31
	CO233	Connected member	2.14	0.04	0.11	0.22	0
56	CO234	Main member	24.86	-0.01	-1.03	-0.74	1.69
	CO234	Continuous member	24.86	0.01	1.03	-0.74	1.69
	CO234	Connected member	2.07	0.03	0	0	-0.05
56	CO235	Main member	3.47	0	-0.99	-0.76	1.65
	CO235	Continuous member	3.47	0	0.99	-0.76	1.65
	CO235	Connected member	1.99	0	0	0	-0.04
56	CO236	Main member	3.02	0	-0.99	-0.76	1.67
	CO236	Continuous member	3.02	0	0.99	-0.76	1.67
	CO236	Connected member	1.98	0.01	0	0	-0.04
56	CO237	Main member	-24.18	0.01	-0.97	-0.83	1.68
	CO237	Continuous member	-24.18	-0.01	0.97	-0.83	1.68
	CO237	Connected member	1.93	-0.02	0	0	-0.04
56	CO238	Main member	-8.47	-0.01	-0.94	-0.73	1.53
	CO238	Continuous member	-8.47	0.01	0.94	-0.73	1.53
	CO238	Connected member	1.88	0.02	0	0	-0.03
56	CO239	Main member	-1.58	-0.04	-1.03	-0.81	0.31
	CO239	Continuous member	-1.45	0	1.11	-0.97	0.31
	CO239	Connected member	2.14	0.04	-0.14	-0.16	0
56	CO240	Main member	-2.5	-0.04	-1.2	-1.15	0.31



::LAV/team::

Page: 11/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO240	Continuous member	-2.79	-0.01	0.95	-0.66	0.31
	CO240	Connected member	2.15	0.04	0.28	0.49	0
	CO241	Main member	25.74	-0.04	-1.1	-0.84	0.31
56	CO241	Continuous member	25.7	0	1.04	-0.73	0.3
	CO241	Connected member	2.15	0.04	0.04	0.11	0
	CO242	Main member	-3.35	-0.04	-1.13	-1.01	0.31
56	CO242	Continuous member	-3.47	-0.01	1.01	-0.79	0.3
	CO242	Connected member	2.14	0.04	0.11	0.22	0
	CO243	Main member	38.57	-0.02	-1.03	-0.68	1.68
56	CO243	Continuous member	38.57	0.02	1.03	-0.68	1.68
	CO243	Connected member	2.07	0.04	0	0	-0.05
	CO244	Main member	17.17	-0.01	-0.99	-0.71	1.64
56	CO244	Continuous member	17.17	0.01	0.99	-0.71	1.64
	CO244	Connected member	1.99	0.02	0	0	-0.04
56	CO245	Main member	16.72	-0.01	-0.99	-0.71	1.65
	CO245	Continuous member	16.72	0.01	0.99	-0.71	1.65
	CO245	Connected member	1.98	0.02	0	0	-0.04
56	CO246	Main member	-10.5	0	-0.97	-0.78	1.66
	CO246	Continuous member	-10.5	0	0.97	-0.78	1.66
	CO246	Connected member	1.94	-0.01	0	0	-0.04
56	CO247	Main member	5.21	-0.01	-0.94	-0.67	1.51
	CO247	Continuous member	5.21	0.01	0.94	-0.67	1.51
	CO247	Connected member	1.88	0.03	0	0	-0.03
56	CO248	Main member	12.13	-0.04	-1.03	-0.75	0.31
	CO248	Continuous member	12.27	0	1.11	-0.91	0.31
	CO248	Connected member	2.14	0.04	-0.14	-0.16	0
56	CO249	Main member	11.21	-0.04	-1.2	-1.09	0.31
	CO249	Continuous member	10.92	-0.01	0.95	-0.61	0.3
	CO249	Connected member	2.15	0.04	0.28	0.49	0
56	CO250	Main member	24.49	-0.04	-1.12	-0.87	0.31
	CO250	Continuous member	24.42	0	1.03	-0.71	0.3
	CO250	Connected member	2.15	0.04	0.07	0.16	0
56	CO251	Main member	-4.6	-0.04	-1.14	-1.04	0.31
	CO251	Continuous member	-4.75	-0.01	1	-0.77	0.3
	CO251	Connected member	2.14	0.04	0.15	0.27	0
56	CO252	Main member	37.33	-0.02	-1.04	-0.71	1.68
	CO252	Continuous member	37.29	0.02	1.02	-0.66	1.68
	CO252	Connected member	2.07	0.04	0.03	0.05	-0.05
56	CO253	Main member	15.92	-0.01	-1.01	-0.74	1.64
	CO253	Continuous member	15.89	0.01	0.98	-0.69	1.64
	CO253	Connected member	1.99	0.01	0.03	0.05	-0.04
56	CO254	Main member	15.48	-0.01	-1	-0.73	1.65
	CO254	Continuous member	15.44	0.01	0.98	-0.69	1.65
	CO254	Connected member	1.98	0.02	0.03	0.05	-0.04
56	CO255	Main member	-11.74	0	-0.98	-0.81	1.67
	CO255	Continuous member	-11.77	-0.01	0.96	-0.76	1.67
	CO255	Connected member	1.94	-0.01	0.03	0.05	-0.04
56	CO256	Main member	3.97	-0.01	-0.95	-0.7	1.51
	CO256	Continuous member	3.94	0.01	0.93	-0.65	1.51
	CO256	Connected member	1.88	0.03	0.03	0.05	-0.03
56	CO257	Main member	10.88	-0.04	-1.04	-0.78	0.31
	CO257	Continuous member	10.99	0	1.1	-0.89	0.31
	CO257	Connected member	2.14	0.04	-0.1	-0.11	0
56	CO258	Main member	9.96	-0.04	-1.21	-1.12	0.31
	CO258	Continuous member	9.64	-0.01	0.93	-0.59	0.3
	CO258	Connected member	2.14	0.04	0.32	0.54	0
56	CO259	Main member	28.47	-0.04	-1.11	-0.83	0.31
	CO259	Continuous member	28.43	0	1.04	-0.72	0.3
	CO259	Connected member	2.15	0.04	0.04	0.11	0
56	CO260	Main member	-0.63	-0.04	-1.13	-1	0.31
	CO260	Continuous member	-0.75	-0.01	1.01	-0.78	0.3
	CO260	Connected member	2.14	0.04	0.12	0.22	0
56	CO261	Main member	41.3	-0.02	-1.03	-0.68	1.67
	CO261	Continuous member	41.3	0.02	1.03	-0.68	1.67
	CO261	Connected member	2.07	0.04	0	0	-0.05
56	CO262	Main member	19.89	-0.01	-1	-0.7	1.63
	CO262	Continuous member	19.89	0.01	1	-0.7	1.63
	CO262	Connected member	1.99	0.02	0	0	-0.04
56	CO263	Main member	19.44	-0.01	-0.99	-0.7	1.65
	CO263	Continuous member	19.44	0.01	0.99	-0.7	1.65
	CO263	Connected member	1.99	0.02	0	0	-0.05
56	CO264	Main member	-7.78	0	-0.97	-0.77	1.66
	CO264	Continuous member	-7.78	0	0.97	-0.77	1.66
	CO264	Connected member	1.94	-0.01	0	0	-0.04
56	CO265	Main member	7.93	-0.02	-0.94	-0.67	1.51
	CO265	Continuous member	7.93	0.02	0.94	-0.67	1.51
	CO265	Connected member	1.88	0.03	0	0	-0.03
56	CO266	Main member	14.86	-0.04	-1.03	-0.74	0.31
	CO266	Continuous member	14.99	0	1.11	-0.9	0.3
	CO266	Connected member	2.14	0.04	-0.14	-0.16	0
56	CO267	Main member	13.93	-0.04	-1.2	-1.09	0.31
	CO267	Continuous member	13.65	0	0.95	-0.6	0.3
	CO267	Connected member	2.15	0.04	0.29	0.49	0
56	CO268	Main member	27.22	-0.04	-1.12	-0.86	0.31
	CO268	Continuous member	27.15	0	1.03	-0.7	0.3
	CO268	Connected member	2.15	0.04	0.07	0.16	0
56	CO269	Main member	-1.88	-0.04	-1.14	-1.03	0.31
	CO269	Continuous member	-2.02	-0.01	1	-0.76	0.3
	CO269	Connected member	2.14	0.04	0.15	0.27	0
56	CO270	Main member	40.05	-0.02	-1.05	-0.7	1.68
	CO270	Continuous member	40.02	0.02	1.02	-0.66	1.68
	CO270	Connected member	2.07	0.04	0.03	0.05	-0.05
56	CO271	Main member	18.65	-0.01	-1.01	-0.73	1.63
	CO271	Continuous member	18.61	0.01	0.98	-0.68	1.63



::LAV/team::

Page: 12/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO271	Connected member	1.99	0.02	0.03	0.05	-0.04
	CO272	Main member	18.2	-0.01	-1	-0.73	1.65
	CO272	Continuous member	18.17	0.01	0.98	-0.68	1.65
56	CO272	Connected member	1.98	0.02	0.03	0.05	-0.05
	CO273	Main member	-9.02	0	-0.98	-0.8	1.66
	CO273	Continuous member	-9.05	0	0.96	-0.75	1.66
56	CO273	Connected member	1.94	-0.01	0.03	0.05	-0.04
	CO274	Main member	6.69	-0.02	-0.95	-0.69	1.51
	CO274	Continuous member	6.66	0.01	0.93	-0.65	1.51
56	CO274	Connected member	1.88	0.03	0.03	0.05	-0.03
	CO275	Main member	13.61	-0.04	-1.04	-0.77	0.31
	CO275	Continuous member	13.71	0	1.1	-0.88	0.3
56	CO275	Connected member	2.14	0.04	-0.1	-0.11	0
	CO276	Main member	12.69	-0.04	-1.21	-1.11	0.31
	CO276	Continuous member	12.37	-0.01	0.93	-0.58	0.3
56	CO276	Connected member	2.15	0.04	0.32	0.54	0
	CO277	Main member	17.07	-0.04	-1.11	-0.88	0.31
	CO277	Continuous member	17.03	0	1.05	-0.77	0.31
56	CO277	Connected member	2.15	0.04	0.04	0.11	0
	CO278	Main member	-12.01	-0.04	-1.13	-1.05	0.31
	CO278	Continuous member	-12.13	-0.01	1.01	-0.83	0.31
56	CO278	Connected member	2.14	0.04	0.11	0.22	0
	CO279	Main member	29.91	-0.02	-1.04	-0.72	1.69
	CO279	Continuous member	29.91	0.02	1.04	-0.72	1.69
56	CO279	Connected member	2.07	0.03	0	0	-0.05
	CO280	Main member	8.51	0	-1	-0.75	1.65
	CO280	Continuous member	8.51	0	1	-0.75	1.65
56	CO280	Connected member	1.99	0.01	0	0	-0.04
	CO281	Main member	8.06	0	-0.99	-0.74	1.66
	CO281	Continuous member	8.06	0	0.99	-0.74	1.66
56	CO281	Connected member	1.99	0.01	0	0	-0.04
	CO282	Main member	-19.15	0.01	-0.97	-0.82	1.68
	CO282	Continuous member	-19.15	-0.01	0.97	-0.82	1.68
56	CO282	Connected member	1.94	-0.02	0	0	-0.04
	CO283	Main member	-3.44	-0.01	-0.94	-0.71	1.52
	CO283	Continuous member	-3.44	0.01	0.94	-0.71	1.52
56	CO283	Connected member	1.88	0.02	0	0	-0.03
	CO284	Main member	3.46	-0.04	-1.03	-0.79	0.31
	CO284	Continuous member	3.6	0	1.11	-0.95	0.31
56	CO284	Connected member	2.14	0.04	-0.14	-0.16	0
	CO285	Main member	2.54	-0.04	-1.2	-1.13	0.31
	CO285	Continuous member	2.26	-0.01	0.95	-0.64	0.31
56	CO285	Connected member	2.15	0.04	0.28	0.49	0
	CO286	Main member	15.82	-0.04	-1.12	-0.91	0.31
	CO286	Continuous member	15.75	0	1.03	-0.75	0.31
56	CO286	Connected member	2.15	0.04	0.07	0.16	0
	CO287	Main member	-13.26	-0.04	-1.14	-1.08	0.31
	CO287	Continuous member	-13.41	-0.01	1	-0.81	0.31
56	CO287	Connected member	2.14	0.04	0.15	0.27	0
	CO288	Main member	28.66	-0.02	-1.05	-0.75	1.69
	CO288	Continuous member	28.63	0.01	1.02	-0.7	1.69
56	CO288	Connected member	2.07	0.03	0.03	0.05	-0.05
	CO289	Main member	7.26	0	-1.01	-0.78	1.65
	CO289	Continuous member	7.23	0	0.98	-0.73	1.65
56	CO289	Connected member	1.99	0.01	0.03	0.05	-0.04
	CO290	Main member	6.82	0	-1	-0.77	1.67
	CO290	Continuous member	6.79	0	0.98	-0.72	1.67
56	CO290	Connected member	1.99	0.01	0.03	0.05	-0.04
	CO291	Main member	-20.39	0.01	-0.98	-0.84	1.68
	CO291	Continuous member	-20.42	-0.01	0.96	-0.8	1.68
56	CO291	Connected member	1.94	-0.02	0.03	0.05	-0.04
	CO292	Main member	-4.68	-0.01	-0.95	-0.74	1.53
	CO292	Continuous member	-4.71	0.01	0.93	-0.69	1.53
56	CO292	Connected member	1.88	0.02	0.03	0.05	-0.03
	CO293	Main member	2.22	-0.04	-1.04	-0.82	0.31
	CO293	Continuous member	2.32	0	1.1	-0.93	0.31
56	CO293	Connected member	2.14	0.04	-0.1	-0.11	0
	CO294	Main member	1.3	-0.04	-1.21	-1.16	0.31
	CO294	Continuous member	0.98	-0.01	0.94	-0.62	0.31
56	CO294	Connected member	2.15	0.04	0.32	0.53	0
	CO295	Main member	14.34	-0.04	-1.11	-0.89	0.31
	CO295	Continuous member	14.31	0	1.05	-0.78	0.31
56	CO295	Connected member	2.15	0.04	0.04	0.11	0
	CO296	Main member	-14.74	-0.04	-1.13	-1.06	0.31
	CO296	Continuous member	-14.85	-0.01	1.01	-0.84	0.31
56	CO296	Connected member	2.14	0.04	0.11	0.22	0
	CO297	Main member	27.18	-0.01	-1.03	-0.73	1.69
	CO297	Continuous member	27.18	0.01	1.03	-0.73	1.69
56	CO297	Connected member	2.07	0.03	0	0	-0.05
	CO298	Main member	5.79	0	-1	-0.76	1.65
	CO298	Continuous member	5.79	0	1	-0.76	1.65
56	CO298	Connected member	1.99	0.01	0	0	-0.04
	CO299	Main member	5.34	0	-0.99	-0.75	1.67
	CO299	Continuous member	5.34	0	0.99	-0.75	1.67
56	CO299	Connected member	1.99	0.01	0	0	-0.04
	CO300	Main member	-21.87	0.01	-0.97	-0.83	1.68
	CO300	Continuous member	-21.87	-0.01	0.97	-0.83	1.68
56	CO300	Connected member	1.94	-0.02	0	0	-0.04
	CO301	Main member	-6.16	-0.01	-0.94	-0.72	1.53
	CO301	Continuous member	-6.16	0.01	0.94	-0.72	1.53
56	CO301	Connected member	1.88	0.02	0	0	-0.03
	CO302	Main member	0.74	-0.04	-1.03	-0.8	0.31
	CO302	Continuous member	0.88	0	1.11	-0.96	0.31
56	CO302	Connected member	2.14	0.04	-0.14	-0.16	0



::LAV/team::

Page: 13/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO303	Main member	-0.18	-0.04	-1.2	-1.14	0.31
	CO303	Continuous member	-0.47	-0.01	0.95	-0.65	0.31
	CO303	Connected member	2.15	0.04	0.28	0.49	0
56	CO304	Main member	13.09	-0.04	-1.12	-0.92	0.31
	CO304	Continuous member	13.03	0	1.03	-0.76	0.31
	CO304	Connected member	2.15	0.04	0.07	0.16	0
56	CO305	Main member	-15.98	-0.04	-1.14	-1.09	0.31
	CO305	Continuous member	-16.13	-0.01	1	-0.82	0.31
	CO305	Connected member	2.14	0.04	0.15	0.27	0
56	CO306	Main member	25.93	-0.01	-1.05	-0.76	1.69
	CO306	Continuous member	25.9	0.01	1.02	-0.71	1.69
	CO306	Connected member	2.07	0.03	0.03	0.05	-0.05
56	CO307	Main member	4.54	0	-1.01	-0.78	1.65
	CO307	Continuous member	4.51	0	0.98	-0.74	1.65
	CO307	Connected member	1.99	0	0.03	0.05	-0.04
56	CO308	Main member	4.1	0	-1	-0.78	1.67
	CO308	Continuous member	4.06	0	0.98	-0.73	1.67
	CO308	Connected member	1.98	0.01	0.03	0.05	-0.04
56	CO309	Main member	-23.11	0.01	-0.98	-0.85	1.68
	CO309	Continuous member	-23.14	-0.01	0.96	-0.81	1.68
	CO309	Connected member	1.93	-0.02	0.03	0.05	-0.04
56	CO310	Main member	-7.4	-0.01	-0.95	-0.75	1.53
	CO310	Continuous member	-7.43	0.01	0.93	-0.7	1.53
	CO310	Connected member	1.88	0.02	0.03	0.05	-0.03
56	CO311	Main member	-0.51	-0.04	-1.04	-0.83	0.31
	CO311	Continuous member	-0.4	0	1.1	-0.94	0.31
	CO311	Connected member	2.14	0.04	-0.1	-0.11	0
56	CO312	Main member	-1.43	-0.04	-1.21	-1.17	0.31
	CO312	Continuous member	-1.74	-0.01	0.94	-0.63	0.31
	CO312	Connected member	2.15	0.04	0.32	0.53	0
56	CO313	Main member	9.75	0	-0.78	-0.6	0.01
	CO313	Continuous member	9.75	0	0.78	-0.6	0.01
	CO313	Connected member	1.56	0	0	0	0
56	CO314	Main member	21.14	0	-0.78	-0.55	0.01
	CO314	Continuous member	21.14	0	0.78	-0.55	0.01
	CO314	Connected member	1.56	0	0	0	0
56	CO315	Main member	23.87	0	-0.78	-0.54	0.01
	CO315	Continuous member	23.87	0	0.78	-0.54	0.01
	CO315	Connected member	1.56	0	0	0	0
56	CO316	Main member	12.47	0	-0.78	-0.59	0.01
	CO316	Continuous member	12.47	0	0.78	-0.59	0.01
	CO316	Connected member	1.56	0	0	0	0
56	CO317	Main member	29.95	0	-0.79	-0.53	0.01
	CO317	Continuous member	29.95	0	0.79	-0.53	0.01
	CO317	Connected member	1.58	0	0	0	0
56	CO318	Main member	41.35	0	-0.79	-0.49	0.02
	CO318	Continuous member	41.35	0	0.79	-0.49	0.02
	CO318	Connected member	1.57	0	0	0	0
56	CO319	Main member	44.08	0	-0.79	-0.48	0.02
	CO319	Continuous member	44.08	0	0.79	-0.48	0.02
	CO319	Connected member	1.57	0	0	0	0
56	CO320	Main member	32.68	0	-0.79	-0.53	0.01
	CO320	Continuous member	32.68	0	0.79	-0.53	0.01
	CO320	Connected member	1.58	0	0	0	0
56	CO321	Main member	46.41	0	-0.79	-0.47	0.02
	CO321	Continuous member	46.41	0	0.79	-0.47	0.02
	CO321	Connected member	1.58	0	0	0	0
56	CO322	Main member	45.16	0	-0.8	-0.5	0.02
	CO322	Continuous member	45.13	0	0.77	-0.45	0.02
	CO322	Connected member	1.57	0	0.03	0.05	0
56	CO323	Main member	49.14	0	-0.79	-0.46	0.02
	CO323	Continuous member	49.14	0	0.79	-0.46	0.02
	CO323	Connected member	1.58	0	0	0	0
56	CO324	Main member	47.89	0	-0.8	-0.49	0.02
	CO324	Continuous member	47.86	0	0.77	-0.44	0.02
	CO324	Connected member	1.58	0	0.03	0.05	0
56	CO325	Main member	37.73	0	-0.79	-0.51	0.02
	CO325	Continuous member	37.73	0	0.79	-0.51	0.02
	CO325	Connected member	1.58	0	0	0	0
56	CO326	Main member	36.49	0	-0.8	-0.54	0.02
	CO326	Continuous member	36.45	0	0.78	-0.49	0.02
	CO326	Connected member	1.58	0	0.03	0.05	0
56	CO327	Main member	44.08	-0.03	-0.82	-0.53	0.19
	CO327	Continuous member	44.06	0	0.78	-0.46	0.19
	CO327	Connected member	1.6	0.03	0.02	0.07	0
56	CO328	Main member	26.61	-0.03	-0.83	-0.63	0.19
	CO328	Continuous member	26.54	0	0.76	-0.5	0.18
	CO328	Connected member	1.6	0.02	0.07	0.14	0
56	CO329	Main member	51.79	-0.02	-0.77	-0.43	1.01
	CO329	Continuous member	51.79	0.02	0.77	-0.43	1.01
	CO329	Connected member	1.55	0.03	0	0	-0.03
56	CO330	Main member	38.93	-0.01	-0.75	-0.45	0.99
	CO330	Continuous member	38.93	0.01	0.75	-0.45	0.99
	CO330	Connected member	1.51	0.02	0	0	-0.03
56	CO331	Main member	38.66	-0.01	-0.75	-0.45	1
	CO331	Continuous member	38.66	0.01	0.75	-0.45	1
	CO331	Connected member	1.5	0.02	0	0	-0.03
56	CO332	Main member	22.3	-0.01	-0.74	-0.49	1
	CO332	Continuous member	22.3	0.01	0.74	-0.49	1
	CO332	Connected member	1.48	0.01	0	0	-0.03
56	CO333	Main member	31.73	-0.02	-0.72	-0.43	0.92
	CO333	Continuous member	31.73	0.02	0.72	-0.43	0.92
	CO333	Connected member	1.44	0.03	0	0	-0.02
56	CO334	Main member	35.91	-0.03	-0.77	-0.47	0.19



::LAV/team::

Page: 14/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO334	Continuous member	35.99	0	0.82	-0.57	0.19
	CO334	Connected member	1.6	0.03	-0.08	-0.1	0
	CO335	Main member	35.36	-0.03	-0.88	-0.68	0.19
56	CO335	Continuous member	35.19	0	0.72	-0.38	0.19
	CO335	Connected member	1.6	0.03	0.17	0.3	0
	CO336	Main member	42.84	-0.03	-0.83	-0.56	0.19
56	CO336	Continuous member	42.78	0	0.77	-0.44	0.19
	CO336	Connected member	1.6	0.03	0.05	0.11	0
	CO337	Main member	25.36	-0.03	-0.84	-0.66	0.19
56	CO337	Continuous member	25.26	0	0.75	-0.48	0.18
	CO337	Connected member	1.6	0.02	0.1	0.18	0
	CO338	Main member	50.54	-0.02	-0.79	-0.46	1.01
56	CO338	Continuous member	50.51	0.02	0.76	-0.41	1.01
	CO338	Connected member	1.55	0.03	0.03	0.05	-0.03
	CO339	Main member	37.68	-0.01	-0.76	-0.48	0.99
56	CO339	Continuous member	37.65	0.01	0.74	-0.43	0.99
	CO339	Connected member	1.51	0.02	0.03	0.05	-0.03
	CO340	Main member	37.41	-0.01	-0.76	-0.47	1
56	CO340	Continuous member	37.38	0.01	0.74	-0.43	1
	CO340	Connected member	1.5	0.02	0.03	0.05	-0.03
	CO341	Main member	21.05	-0.01	-0.75	-0.52	1
56	CO341	Continuous member	21.02	0.01	0.73	-0.47	1
	CO341	Connected member	1.48	0.01	0.03	0.05	-0.03
	CO342	Main member	30.48	-0.02	-0.73	-0.46	0.92
56	CO342	Continuous member	30.45	0.01	0.71	-0.41	0.92
	CO342	Connected member	1.44	0.03	0.03	0.05	-0.02
	CO343	Main member	34.66	-0.03	-0.78	-0.5	0.19
56	CO343	Continuous member	34.71	0	0.81	-0.55	0.19
	CO343	Connected member	1.59	0.03	-0.05	-0.05	0
	CO344	Main member	34.11	-0.03	-0.89	-0.71	0.19
56	CO344	Continuous member	33.91	0	0.71	-0.36	0.19
	CO344	Connected member	1.6	0.03	0.21	0.34	0
	CO345	Main member	46.82	-0.03	-0.82	-0.52	0.19
56	CO345	Continuous member	46.79	0	0.78	-0.45	0.19
	CO345	Connected member	1.6	0.03	0.02	0.07	0
	CO346	Main member	29.34	-0.03	-0.83	-0.62	0.19
56	CO346	Continuous member	29.27	0	0.76	-0.49	0.18
	CO346	Connected member	1.6	0.02	0.07	0.14	0
	CO347	Main member	54.52	-0.02	-0.77	-0.42	1.01
56	CO347	Continuous member	54.52	0.02	0.77	-0.42	1.01
	CO347	Connected member	1.55	0.03	0	0	-0.03
	CO348	Main member	41.65	-0.01	-0.75	-0.44	0.99
56	CO348	Continuous member	41.65	0.01	0.75	-0.44	0.99
	CO348	Connected member	1.51	0.02	0	0	-0.03
	CO349	Main member	41.38	-0.01	-0.75	-0.44	1
56	CO349	Continuous member	41.38	0.01	0.75	-0.44	1
	CO349	Connected member	1.5	0.02	0	0	-0.03
	CO350	Main member	25.03	-0.01	-0.74	-0.48	1
56	CO350	Continuous member	25.03	0.01	0.74	-0.48	1
	CO350	Connected member	1.48	0.01	0	0	-0.03
	CO351	Main member	34.45	-0.02	-0.72	-0.42	0.92
56	CO351	Continuous member	34.45	0.02	0.72	-0.42	0.92
	CO351	Connected member	1.44	0.03	0	0	-0.02
	CO352	Main member	38.64	-0.03	-0.77	-0.46	0.19
56	CO352	Continuous member	38.72	0	0.82	-0.56	0.19
	CO352	Connected member	1.6	0.03	-0.08	-0.1	0
	CO353	Main member	38.09	-0.03	-0.88	-0.67	0.19
56	CO353	Continuous member	37.92	0	0.72	-0.37	0.19
	CO353	Connected member	1.6	0.03	0.17	0.3	0
	CO354	Main member	45.57	-0.03	-0.83	-0.55	0.19
56	CO354	Continuous member	45.51	0	0.77	-0.43	0.19
	CO354	Connected member	1.6	0.03	0.05	0.11	0
	CO355	Main member	28.09	-0.03	-0.85	-0.65	0.19
56	CO355	Continuous member	27.99	0	0.75	-0.47	0.18
	CO355	Connected member	1.6	0.02	0.1	0.18	0
	CO356	Main member	53.27	-0.02	-0.79	-0.45	1.01
56	CO356	Continuous member	53.24	0.02	0.76	-0.4	1.01
	CO356	Connected member	1.55	0.03	0.03	0.05	-0.03
	CO357	Main member	40.41	-0.01	-0.76	-0.47	0.99
56	CO357	Continuous member	40.38	0.01	0.74	-0.42	0.99
	CO357	Connected member	1.51	0.02	0.03	0.05	-0.03
	CO358	Main member	40.14	-0.01	-0.76	-0.46	1
56	CO358	Continuous member	40.11	0.01	0.74	-0.42	1
	CO358	Connected member	1.5	0.02	0.03	0.05	-0.03
	CO359	Main member	23.78	-0.01	-0.75	-0.51	1
56	CO359	Continuous member	23.75	0.01	0.73	-0.46	1
	CO359	Connected member	1.48	0.01	0.03	0.05	-0.03
	CO360	Main member	33.21	-0.02	-0.73	-0.45	0.92
56	CO360	Continuous member	33.18	0.02	0.71	-0.4	0.92
	CO360	Connected member	1.44	0.03	0.03	0.05	-0.02
	CO361	Main member	37.39	-0.03	-0.79	-0.49	0.19
56	CO361	Continuous member	37.44	0	0.81	-0.54	0.19
	CO361	Connected member	1.6	0.03	-0.05	-0.05	0
	CO362	Main member	36.84	-0.03	-0.89	-0.7	0.19
56	CO362	Continuous member	36.64	0	0.71	-0.35	0.19
	CO362	Connected member	1.6	0.03	0.21	0.34	0
	CO363	Main member	35.41	-0.03	-0.82	-0.57	0.19
56	CO363	Continuous member	35.39	0	0.78	-0.5	0.19
	CO363	Connected member	1.61	0.03	0.02	0.07	0
	CO364	Main member	17.94	-0.03	-0.84	-0.67	0.19
56	CO364	Continuous member	17.87	0	0.77	-0.53	0.18
	CO364	Connected member	1.6	0.02	0.07	0.14	0
	CO365	Main member	43.12	-0.01	-0.78	-0.47	1.02
56	CO365	Continuous member	43.12	0.01	0.78	-0.47	1.02



::LAV/team::

Page: 15/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO365	Connected member	1.56	0.03	0	0	-0.03
	CO366	Main member	30.26	-0.01	-0.76	-0.49	0.99
	CO366	Continuous member	30.26	0.01	0.76	-0.49	0.99
56	CO366	Connected member	1.51	0.02	0	0	-0.03
	CO367	Main member	29.99	-0.01	-0.75	-0.48	1.01
	CO367	Continuous member	29.99	0.01	0.75	-0.48	1.01
56	CO367	Connected member	1.51	0.02	0	0	-0.03
	CO368	Main member	13.64	0	-0.74	-0.53	1
	CO368	Continuous member	13.64	0	0.74	-0.53	1
56	CO368	Connected member	1.48	0.01	0	0	-0.03
	CO369	Main member	23.07	-0.01	-0.72	-0.47	0.92
	CO369	Continuous member	23.07	0.01	0.72	-0.47	0.92
56	CO369	Connected member	1.45	0.03	0	0	-0.02
	CO370	Main member	27.24	-0.03	-0.78	-0.51	0.19
	CO370	Continuous member	27.32	0	0.82	-0.61	0.19
56	CO370	Connected member	1.6	0.03	-0.08	-0.1	0
	CO371	Main member	26.69	-0.03	-0.88	-0.72	0.19
	CO371	Continuous member	26.51	0	0.73	-0.42	0.19
56	CO371	Connected member	1.61	0.03	0.17	0.3	0
	CO372	Main member	34.16	-0.03	-0.83	-0.59	0.19
	CO372	Continuous member	34.11	0	0.77	-0.48	0.19
56	CO372	Connected member	1.61	0.03	0.05	0.11	0
	CO373	Main member	16.69	-0.03	-0.85	-0.7	0.19
	CO373	Continuous member	16.59	0	0.75	-0.51	0.18
56	CO373	Connected member	1.6	0.02	0.1	0.18	0
	CO374	Main member	41.87	-0.01	-0.79	-0.5	1.02
	CO374	Continuous member	41.84	0.01	0.77	-0.45	1.02
56	CO374	Connected member	1.56	0.03	0.03	0.05	-0.03
	CO375	Main member	29.01	-0.01	-0.77	-0.51	1
	CO375	Continuous member	28.98	0.01	0.74	-0.47	1
56	CO375	Connected member	1.51	0.02	0.03	0.05	-0.03
	CO376	Main member	28.74	-0.01	-0.76	-0.51	1.01
	CO376	Continuous member	28.71	0.01	0.74	-0.46	1.01
56	CO376	Connected member	1.51	0.02	0.03	0.05	-0.03
	CO377	Main member	12.39	0	-0.75	-0.56	1.01
	CO377	Continuous member	12.36	0	0.73	-0.51	1.01
56	CO377	Connected member	1.48	0.01	0.03	0.05	-0.03
	CO378	Main member	21.82	-0.01	-0.73	-0.49	0.92
	CO378	Continuous member	21.79	0.01	0.71	-0.45	0.92
56	CO378	Connected member	1.45	0.03	0.03	0.05	-0.02
	CO379	Main member	25.99	-0.03	-0.79	-0.54	0.19
	CO379	Continuous member	26.04	0	0.81	-0.59	0.19
56	CO379	Connected member	1.6	0.03	-0.05	-0.05	0
	CO380	Main member	25.44	-0.03	-0.89	-0.75	0.19
	CO380	Continuous member	25.23	0	0.71	-0.4	0.19
56	CO380	Connected member	1.61	0.03	0.2	0.34	0
	CO381	Main member	39.03	-0.03	-0.82	-0.54	0.19
	CO381	Continuous member	39.01	0	0.78	-0.48	0.19
56	CO381	Connected member	1.6	0.03	0.02	0.07	0
	CO382	Main member	21.56	-0.03	-0.83	-0.65	0.19
	CO382	Continuous member	21.49	0	0.76	-0.51	0.18
56	CO382	Connected member	1.59	0.02	0.07	0.14	0
	CO383	Main member	46.73	-0.01	-0.77	-0.45	1.01
	CO383	Continuous member	46.73	0.01	0.77	-0.45	1.01
56	CO383	Connected member	1.55	0.03	0	0	-0.03
	CO384	Main member	33.87	-0.01	-0.75	-0.46	0.99
	CO384	Continuous member	33.87	0.01	0.75	-0.46	0.99
56	CO384	Connected member	1.5	0.02	0	0	-0.03
	CO385	Main member	33.6	-0.01	-0.75	-0.46	1
	CO385	Continuous member	33.6	0.01	0.75	-0.46	1
56	CO385	Connected member	1.5	0.02	0	0	-0.03
	CO386	Main member	17.25	-0.01	-0.74	-0.51	1
	CO386	Continuous member	17.25	0.01	0.74	-0.51	1
56	CO386	Connected member	1.47	0.01	0	0	-0.03
	CO387	Main member	26.68	-0.01	-0.72	-0.44	0.92
	CO387	Continuous member	26.68	0.01	0.72	-0.44	0.92
56	CO387	Connected member	1.44	0.03	0	0	-0.02
	CO388	Main member	30.85	-0.03	-0.77	-0.49	0.19
	CO388	Continuous member	30.94	0	0.82	-0.59	0.19
56	CO388	Connected member	1.59	0.03	-0.08	-0.1	0
	CO389	Main member	30.31	-0.03	-0.87	-0.7	0.19
	CO389	Continuous member	30.13	0	0.72	-0.4	0.19
56	CO389	Connected member	1.6	0.03	0.17	0.3	0
	CO390	Main member	41.76	-0.03	-0.82	-0.53	0.19
	CO390	Continuous member	41.74	0	0.78	-0.47	0.19
56	CO390	Connected member	1.6	0.03	0.02	0.07	0
	CO391	Main member	24.28	-0.03	-0.83	-0.64	0.19
	CO391	Continuous member	24.21	0	0.76	-0.5	0.18
56	CO391	Connected member	1.6	0.02	0.07	0.14	0
	CO392	Main member	49.46	-0.01	-0.77	-0.44	1.01
	CO392	Continuous member	49.46	0.01	0.77	-0.44	1.01
56	CO392	Connected member	1.55	0.03	0	0	-0.03
	CO393	Main member	36.6	-0.01	-0.75	-0.46	0.99
	CO393	Continuous member	36.6	0.01	0.75	-0.46	0.99
56	CO393	Connected member	1.51	0.02	0	0	-0.03
	CO394	Main member	36.33	-0.01	-0.75	-0.45	1
	CO394	Continuous member	36.33	0.01	0.75	-0.45	1
56	CO394	Connected member	1.5	0.02	0	0	-0.03
	CO395	Main member	19.98	-0.01	-0.74	-0.5	1
	CO395	Continuous member	19.98	0.01	0.74	-0.5	1
56	CO395	Connected member	1.48	0.01	0	0	-0.03
	CO396	Main member	29.41	-0.01	-0.72	-0.44	0.92
	CO396	Continuous member	29.41	0.01	0.72	-0.44	0.92
56	CO396	Connected member	1.44	0.03	0	0	-0.02



::LAV/team::

Page: 16/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO397	Main member	33.58	-0.03	-0.77	-0.48	0.19
	CO397	Continuous member	33.67	0	0.82	-0.58	0.19
	CO397	Connected member	1.59	0.03	-0.08	-0.1	0
56	CO398	Main member	33.03	-0.03	-0.88	-0.69	0.19
	CO398	Continuous member	32.86	0	0.72	-0.39	0.19
	CO398	Connected member	1.6	0.03	0.17	0.3	0
56	CO399	Main member	30.35	-0.03	-0.82	-0.58	0.19
	CO399	Continuous member	30.33	0	0.78	-0.52	0.19
	CO399	Connected member	1.6	0.03	0.02	0.07	0
56	CO400	Main member	12.89	-0.03	-0.83	-0.69	0.19
	CO400	Continuous member	12.82	0	0.76	-0.55	0.18
	CO400	Connected member	1.6	0.02	0.07	0.14	0
56	CO401	Main member	38.06	-0.01	-0.78	-0.49	1.02
	CO401	Continuous member	38.06	0.01	0.78	-0.49	1.02
	CO401	Connected member	1.55	0.02	0	0	-0.03
56	CO402	Main member	25.21	-0.01	-0.75	-0.5	1
	CO402	Continuous member	25.21	0.01	0.75	-0.5	1
	CO402	Connected member	1.51	0.01	0	0	-0.03
56	CO403	Main member	24.94	-0.01	-0.75	-0.5	1.01
	CO403	Continuous member	24.94	0.01	0.75	-0.5	1.01
	CO403	Connected member	1.5	0.02	0	0	-0.03
56	CO404	Main member	8.59	0	-0.74	-0.55	1.01
	CO404	Continuous member	8.59	0	0.74	-0.55	1.01
	CO404	Connected member	1.48	0.01	0	0	-0.03
56	CO405	Main member	18.02	-0.01	-0.72	-0.48	0.93
	CO405	Continuous member	18.02	0.01	0.72	-0.48	0.93
	CO405	Connected member	1.44	0.02	0	0	-0.02
56	CO406	Main member	22.18	-0.03	-0.77	-0.53	0.19
	CO406	Continuous member	22.26	0	0.82	-0.63	0.19
	CO406	Connected member	1.6	0.02	-0.08	-0.1	0
56	CO407	Main member	21.63	-0.03	-0.88	-0.73	0.19
	CO407	Continuous member	21.46	0	0.72	-0.44	0.19
	CO407	Connected member	1.6	0.02	0.17	0.29	0
56	CO408	Main member	35	0	-0.79	-0.52	0.02
	CO408	Continuous member	35	0	0.79	-0.52	0.02
	CO408	Connected member	1.58	0	0	0	0
56	CO409	Main member	33.76	0	-0.8	-0.55	0.02
	CO409	Continuous member	33.72	0	0.78	-0.5	0.02
	CO409	Connected member	1.58	0	0.03	0.05	0
56	CO410	Main member	32.68	-0.03	-0.82	-0.58	0.19
	CO410	Continuous member	32.66	0	0.78	-0.51	0.19
	CO410	Connected member	1.61	0.03	0.02	0.07	0
56	CO411	Main member	15.21	-0.03	-0.83	-0.68	0.19
	CO411	Continuous member	15.14	0	0.77	-0.54	0.18
	CO411	Connected member	1.6	0.02	0.07	0.14	0
56	CO412	Main member	40.39	-0.01	-0.78	-0.48	1.02
	CO412	Continuous member	40.39	0.01	0.78	-0.48	1.02
	CO412	Connected member	1.56	0.03	0	0	-0.03
56	CO413	Main member	27.53	-0.01	-0.75	-0.5	1
	CO413	Continuous member	27.53	0.01	0.75	-0.5	1
	CO413	Connected member	1.51	0.02	0	0	-0.03
56	CO414	Main member	27.26	-0.01	-0.75	-0.49	1.01
	CO414	Continuous member	27.26	0.01	0.75	-0.49	1.01
	CO414	Connected member	1.51	0.02	0	0	-0.03
56	CO415	Main member	10.91	0	-0.74	-0.54	1.01
	CO415	Continuous member	10.91	0	0.74	-0.54	1.01
	CO415	Connected member	1.48	0.01	0	0	-0.03
56	CO416	Main member	20.34	-0.01	-0.72	-0.47	0.93
	CO416	Continuous member	20.34	0.01	0.72	-0.47	0.93
	CO416	Connected member	1.45	0.03	0	0	-0.02
56	CO417	Main member	24.51	-0.03	-0.78	-0.52	0.19
	CO417	Continuous member	24.59	0	0.82	-0.62	0.19
	CO417	Connected member	1.6	0.03	-0.08	-0.1	0
56	CO418	Main member	23.96	-0.03	-0.88	-0.73	0.19
	CO418	Continuous member	23.79	0	0.73	-0.43	0.19
	CO418	Connected member	1.6	0.03	0.17	0.29	0
56	CO419	Main member	31.43	-0.03	-0.83	-0.6	0.19
	CO419	Continuous member	31.38	0	0.77	-0.49	0.19
	CO419	Connected member	1.6	0.03	0.05	0.11	0
56	CO420	Main member	13.96	-0.03	-0.85	-0.71	0.19
	CO420	Continuous member	13.86	0	0.75	-0.52	0.18
	CO420	Connected member	1.6	0.02	0.1	0.18	0
56	CO421	Main member	39.14	-0.01	-0.79	-0.51	1.02
	CO421	Continuous member	39.11	0.01	0.76	-0.46	1.02
	CO421	Connected member	1.56	0.02	0.03	0.05	-0.03
56	CO422	Main member	26.28	-0.01	-0.77	-0.52	1
	CO422	Continuous member	26.25	0.01	0.74	-0.48	1
	CO422	Connected member	1.51	0.02	0.03	0.05	-0.03
56	CO423	Main member	26.01	-0.01	-0.76	-0.52	1.01
	CO423	Continuous member	25.98	0.01	0.74	-0.47	1.01
	CO423	Connected member	1.51	0.02	0.03	0.05	-0.03
56	CO424	Main member	9.67	0	-0.75	-0.57	1.01
	CO424	Continuous member	9.63	0	0.73	-0.52	1.01
	CO424	Connected member	1.48	0.01	0.03	0.05	-0.03
56	CO425	Main member	19.09	-0.01	-0.73	-0.5	0.93
	CO425	Continuous member	19.06	0.01	0.71	-0.46	0.93
	CO425	Connected member	1.44	0.02	0.03	0.05	-0.02
56	CO426	Main member	23.26	-0.03	-0.79	-0.55	0.19
	CO426	Continuous member	23.31	0	0.81	-0.6	0.19
	CO426	Connected member	1.6	0.02	-0.05	-0.05	0
56	CO427	Main member	22.71	-0.03	-0.89	-0.76	0.19
	CO427	Continuous member	22.51	0	0.71	-0.41	0.19
	CO427	Connected member	1.6	0.02	0.2	0.34	0
56	CO428	Main member	27.62	-0.03	-0.82	-0.59	0.19



::LAV/team::

Page: 17/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO428	Continuous member	27.6	0	0.78	-0.53	0.19
	CO428	Connected member	1.6	0.03	0.02	0.06	0
	CO429	Main member	10.16	-0.03	-0.83	-0.7	0.19
56	CO429	Continuous member	10.09	0	0.76	-0.56	0.18
	CO429	Connected member	1.6	0.02	0.07	0.14	0
	CO430	Main member	35.33	-0.01	-0.78	-0.5	1.02
56	CO430	Continuous member	35.33	0.01	0.78	-0.5	1.02
	CO430	Connected member	1.55	0.02	0	0	-0.03
	CO431	Main member	22.48	-0.01	-0.75	-0.51	1
56	CO431	Continuous member	22.48	0.01	0.75	-0.51	1
	CO431	Connected member	1.51	0.01	0	0	-0.03
	CO432	Main member	22.21	-0.01	-0.75	-0.51	1.01
56	CO432	Continuous member	22.21	0.01	0.75	-0.51	1.01
	CO432	Connected member	1.5	0.01	0	0	-0.03
56	CO433	Main member	5.87	0	-0.74	-0.55	1.01
	CO433	Continuous member	5.87	0	0.74	-0.55	1.01
	CO433	Connected member	1.48	0	0	0	-0.03
56	CO434	Main member	15.29	-0.01	-0.72	-0.49	0.93
	CO434	Continuous member	15.29	0.01	0.72	-0.49	0.93
	CO434	Connected member	1.44	0.02	0	0	-0.02
56	CO435	Main member	19.45	-0.03	-0.77	-0.54	0.19
	CO435	Continuous member	19.54	0	0.82	-0.63	0.19
	CO435	Connected member	1.6	0.02	-0.08	-0.1	0
56	CO436	Main member	18.91	-0.03	-0.88	-0.74	0.19
	CO436	Continuous member	18.73	0	0.72	-0.45	0.19
	CO436	Connected member	1.6	0.02	0.17	0.29	0
56	CO437	Main member	19.85	0	-0.78	-0.57	0.01
	CO437	Continuous member	19.85	0	0.78	-0.57	0.01
	CO437	Connected member	1.57	0	0	0	0
56	CO438	Main member	17.35	0	-0.81	-0.62	0.01
	CO438	Continuous member	17.29	0	0.76	-0.53	0.01
	CO438	Connected member	1.57	0	0.06	0.1	0
56	CO439	Main member	31.24	0	-0.78	-0.52	0.01
	CO439	Continuous member	31.24	0	0.78	-0.52	0.01
	CO439	Connected member	1.57	0	0	0	0
56	CO440	Main member	28.75	0	-0.81	-0.58	0.01
	CO440	Continuous member	28.68	0	0.76	-0.48	0.01
	CO440	Connected member	1.56	0	0.06	0.1	0
56	CO441	Main member	33.97	0	-0.78	-0.51	0.01
	CO441	Continuous member	33.97	0	0.78	-0.51	0.01
	CO441	Connected member	1.57	0	0	0	0
56	CO442	Main member	31.48	0	-0.81	-0.57	0.01
	CO442	Continuous member	31.41	0	0.76	-0.47	0.01
	CO442	Connected member	1.57	0	0.06	0.1	0
56	CO443	Main member	22.57	0	-0.78	-0.56	0.01
	CO443	Continuous member	22.57	0	0.78	-0.56	0.01
	CO443	Connected member	1.57	0	0	0	0
56	CO444	Main member	20.08	0	-0.81	-0.62	0.01
	CO444	Continuous member	20.01	0	0.76	-0.52	0.01
	CO444	Connected member	1.57	0	0.06	0.1	0
56	CO445	Main member	28.92	-0.03	-0.81	-0.58	0.19
	CO445	Continuous member	28.9	0	0.78	-0.51	0.19
	CO445	Connected member	1.59	0.03	0.02	0.06	0
56	CO446	Main member	11.45	-0.03	-0.83	-0.68	0.19
	CO446	Continuous member	11.39	0	0.76	-0.55	0.18
	CO446	Connected member	1.59	0.02	0.07	0.14	0
56	CO447	Main member	36.62	-0.01	-0.77	-0.48	1.02
	CO447	Continuous member	36.62	0.01	0.77	-0.48	1.02
	CO447	Connected member	1.54	0.02	0	0	-0.03
56	CO448	Main member	23.77	-0.01	-0.75	-0.5	0.99
	CO448	Continuous member	23.77	0.01	0.75	-0.5	0.99
	CO448	Connected member	1.5	0.01	0	0	-0.03
56	CO449	Main member	23.5	-0.01	-0.75	-0.5	1
	CO449	Continuous member	23.5	0.01	0.75	-0.5	1
	CO449	Connected member	1.49	0.01	0	0	-0.03
56	CO450	Main member	7.16	0	-0.73	-0.54	1
	CO450	Continuous member	7.16	0	0.73	-0.54	1
	CO450	Connected member	1.47	0	0	0	-0.03
56	CO451	Main member	16.59	-0.01	-0.72	-0.48	0.92
	CO451	Continuous member	16.59	0.01	0.72	-0.48	0.92
	CO451	Connected member	1.43	0.02	0	0	-0.02
56	CO452	Main member	20.75	-0.03	-0.77	-0.52	0.19
	CO452	Continuous member	20.83	0	0.82	-0.62	0.19
	CO452	Connected member	1.58	0.02	-0.08	-0.1	0
56	CO453	Main member	20.2	-0.03	-0.87	-0.73	0.19
	CO453	Continuous member	20.03	0	0.72	-0.44	0.19
	CO453	Connected member	1.59	0.02	0.17	0.29	0
56	CO454	Main member	26.42	-0.03	-0.84	-0.63	0.19
	CO454	Continuous member	26.34	0	0.75	-0.47	0.19
	CO454	Connected member	1.59	0.03	0.09	0.16	0
56	CO455	Main member	8.96	-0.03	-0.85	-0.74	0.19
	CO455	Continuous member	8.83	0	0.73	-0.51	0.18
	CO455	Connected member	1.58	0.02	0.13	0.23	0
56	CO456	Main member	34.13	-0.01	-0.79	-0.54	1.02
	CO456	Continuous member	34.06	0.01	0.75	-0.44	1.02
	CO456	Connected member	1.54	0.02	0.06	0.1	-0.03
56	CO457	Main member	21.28	-0.01	-0.77	-0.55	0.99
	CO457	Continuous member	21.22	0.01	0.72	-0.46	0.99
	CO457	Connected member	1.49	0.01	0.06	0.1	-0.03
56	CO458	Main member	21.01	-0.01	-0.77	-0.55	1.01
	CO458	Continuous member	20.95	0.01	0.72	-0.46	1.01
	CO458	Connected member	1.49	0.01	0.06	0.1	-0.03
56	CO459	Main member	4.67	0	-0.75	-0.6	1
	CO459	Continuous member	4.61	0	0.71	-0.5	1



::LAVteam::

Page: 18/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO459	Connected member	1.46	0	0.06	0.1	-0.03
	CO460	Main member	14.1	-0.01	-0.74	-0.53	0.93
	CO460	Continuous member	14.03	0.01	0.69	-0.44	0.93
56	CO460	Connected member	1.43	0.02	0.06	0.1	-0.02
	CO461	Main member	18.25	-0.03	-0.79	-0.58	0.19
	CO461	Continuous member	18.27	0	0.79	-0.58	0.19
56	CO461	Connected member	1.58	0.02	-0.02	0	0
	CO462	Main member	17.7	-0.03	-0.89	-0.79	0.19
	CO462	Continuous member	17.47	0	0.69	-0.4	0.19
56	CO462	Connected member	1.59	0.02	0.24	0.39	0
	CO463	Main member	31.65	-0.03	-0.81	-0.57	0.19
	CO463	Continuous member	31.63	0	0.78	-0.5	0.19
56	CO463	Connected member	1.59	0.03	0.02	0.07	0
	CO464	Main member	14.18	-0.03	-0.83	-0.67	0.19
	CO464	Continuous member	14.11	0	0.76	-0.54	0.18
56	CO464	Connected member	1.59	0.02	0.07	0.14	0
	CO465	Main member	39.35	-0.01	-0.77	-0.47	1.02
	CO465	Continuous member	39.35	0.01	0.77	-0.47	1.02
56	CO465	Connected member	1.54	0.02	0	0	-0.03
	CO466	Main member	26.5	-0.01	-0.75	-0.49	0.99
	CO466	Continuous member	26.5	0.01	0.75	-0.49	0.99
56	CO466	Connected member	1.5	0.02	0	0	-0.03
	CO467	Main member	26.23	-0.01	-0.75	-0.49	1
	CO467	Continuous member	26.23	0.01	0.75	-0.49	1
56	CO467	Connected member	1.49	0.02	0	0	-0.03
	CO468	Main member	9.88	0	-0.73	-0.53	1
	CO468	Continuous member	9.88	0	0.73	-0.53	1
56	CO468	Connected member	1.47	0.01	0	0	-0.03
	CO469	Main member	19.31	-0.01	-0.72	-0.47	0.92
	CO469	Continuous member	19.31	0.01	0.72	-0.47	0.92
56	CO469	Connected member	1.43	0.02	0	0	-0.02
	CO470	Main member	23.48	-0.03	-0.77	-0.51	0.19
	CO470	Continuous member	23.56	0	0.82	-0.61	0.19
56	CO470	Connected member	1.59	0.03	-0.08	-0.1	0
	CO471	Main member	22.93	-0.03	-0.87	-0.72	0.19
	CO471	Continuous member	22.76	0	0.72	-0.43	0.19
56	CO471	Connected member	1.59	0.03	0.17	0.29	0
	CO472	Main member	29.15	-0.03	-0.84	-0.63	0.19
	CO472	Continuous member	29.06	0	0.75	-0.46	0.19
56	CO472	Connected member	1.59	0.03	0.09	0.16	0
	CO473	Main member	11.69	-0.03	-0.85	-0.73	0.19
	CO473	Continuous member	11.55	0	0.73	-0.5	0.18
56	CO473	Connected member	1.59	0.02	0.13	0.23	0
	CO474	Main member	36.86	-0.01	-0.79	-0.53	1.02
	CO474	Continuous member	36.79	0.01	0.75	-0.43	1.02
56	CO474	Connected member	1.54	0.02	0.06	0.1	-0.03
	CO475	Main member	24.01	-0.01	-0.77	-0.55	0.99
	CO475	Continuous member	23.94	0.01	0.72	-0.45	0.99
56	CO475	Connected member	1.5	0.01	0.06	0.1	-0.03
	CO476	Main member	23.74	-0.01	-0.77	-0.54	1
	CO476	Continuous member	23.67	0.01	0.72	-0.45	1
56	CO476	Connected member	1.49	0.01	0.06	0.1	-0.03
	CO477	Main member	7.39	0	-0.76	-0.59	1
	CO477	Continuous member	7.33	0	0.71	-0.49	1
56	CO477	Connected member	1.47	0.01	0.06	0.1	-0.03
	CO478	Main member	16.82	-0.01	-0.74	-0.52	0.92
	CO478	Continuous member	16.76	0.01	0.69	-0.43	0.92
56	CO478	Connected member	1.43	0.02	0.06	0.1	-0.02
	CO479	Main member	20.98	-0.03	-0.79	-0.57	0.19
	CO479	Continuous member	21	0	0.79	-0.57	0.19
56	CO479	Connected member	1.58	0.02	-0.02	0	0
	CO480	Main member	20.43	-0.03	-0.89	-0.78	0.19
	CO480	Continuous member	20.2	0	0.69	-0.39	0.19
56	CO480	Connected member	1.59	0.02	0.24	0.39	0
	CO481	Main member	20.25	-0.03	-0.82	-0.62	0.19
	CO481	Continuous member	20.23	0	0.78	-0.55	0.19
56	CO481	Connected member	1.6	0.03	0.02	0.06	0
	CO482	Main member	2.79	-0.03	-0.83	-0.72	0.19
	CO482	Continuous member	2.72	0	0.76	-0.58	0.19
56	CO482	Connected member	1.59	0.02	0.07	0.13	0
	CO483	Main member	27.95	-0.01	-0.77	-0.52	1.02
	CO483	Continuous member	27.95	0.01	0.77	-0.52	1.02
56	CO483	Connected member	1.55	0.02	0	0	-0.03
	CO484	Main member	15.11	0	-0.75	-0.54	1
	CO484	Continuous member	15.11	0	0.75	-0.54	1
56	CO484	Connected member	1.5	0.01	0	0	-0.03
	CO485	Main member	14.84	-0.01	-0.75	-0.53	1.01
	CO485	Continuous member	14.84	0.01	0.75	-0.53	1.01
56	CO485	Connected member	1.5	0.01	0	0	-0.03
	CO486	Main member	-1.5	0	-0.73	-0.58	1.01
	CO486	Continuous member	-1.5	0	0.73	-0.58	1.01
56	CO486	Connected member	1.47	0	0	0	-0.03
	CO487	Main member	7.93	-0.01	-0.72	-0.52	0.93
	CO487	Continuous member	7.93	0.01	0.72	-0.52	0.93
56	CO487	Connected member	1.44	0.02	0	0	-0.02
	CO488	Main member	12.08	-0.03	-0.77	-0.56	0.19
	CO488	Continuous member	12.16	0	0.82	-0.66	0.19
56	CO488	Connected member	1.59	0.02	-0.08	-0.1	0
	CO489	Main member	11.53	-0.03	-0.87	-0.77	0.19
	CO489	Continuous member	11.36	0	0.72	-0.47	0.19
56	CO489	Connected member	1.59	0.02	0.17	0.29	0
	CO490	Main member	17.75	-0.03	-0.84	-0.67	0.19
	CO490	Continuous member	17.67	0	0.75	-0.51	0.19
56	CO490	Connected member	1.59	0.03	0.09	0.16	0



::LAV/team::

Page: 19/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO491	Main member	0.3	-0.03	-0.85	-0.78	0.19
	CO491	Continuous member	0.16	0	0.74	-0.54	0.19
	CO491	Connected member	1.59	0.02	0.13	0.23	0
56	CO492	Main member	25.46	-0.01	-0.8	-0.58	1.02
	CO492	Continuous member	25.4	0.01	0.75	-0.48	1.02
	CO492	Connected member	1.55	0.02	0.06	0.1	-0.03
56	CO493	Main member	12.62	0	-0.77	-0.59	1
	CO493	Continuous member	12.56	0	0.73	-0.5	1
	CO493	Connected member	1.5	0.01	0.06	0.1	-0.03
56	CO494	Main member	12.35	-0.01	-0.77	-0.59	1.01
	CO494	Continuous member	12.29	0	0.72	-0.49	1.01
	CO494	Connected member	1.49	0.01	0.06	0.1	-0.03
56	CO495	Main member	-3.99	0	-0.76	-0.63	1.01
	CO495	Continuous member	-4.05	0	0.71	-0.54	1.01
	CO495	Connected member	1.47	0	0.06	0.1	-0.03
56	CO496	Main member	5.44	-0.01	-0.74	-0.57	0.93
	CO496	Continuous member	5.38	0.01	0.69	-0.48	0.93
	CO496	Connected member	1.43	0.02	0.06	0.1	-0.02
56	CO497	Main member	9.59	-0.03	-0.79	-0.62	0.19
	CO497	Continuous member	9.6	0	0.79	-0.62	0.19
	CO497	Connected member	1.59	0.02	-0.02	0	0
56	CO498	Main member	9.04	-0.03	-0.9	-0.82	0.19
	CO498	Continuous member	8.8	0	0.7	-0.43	0.19
	CO498	Connected member	1.59	0.02	0.24	0.39	0
56	CO499	Main member	17.52	-0.03	-0.81	-0.63	0.19
	CO499	Continuous member	17.5	0	0.78	-0.56	0.19
	CO499	Connected member	1.59	0.03	0.02	0.06	0
56	CO500	Main member	0.06	-0.03	-0.83	-0.73	0.19
	CO500	Continuous member	0	0	0.76	-0.59	0.19
	CO500	Connected member	1.59	0.02	0.07	0.13	0
56	CO501	Main member	25.23	-0.01	-0.77	-0.53	1.02
	CO501	Continuous member	25.23	0.01	0.77	-0.53	1.02
	CO501	Connected member	1.55	0.02	0	0	-0.03
56	CO502	Main member	12.39	0	-0.75	-0.55	1
	CO502	Continuous member	12.39	0	0.75	-0.55	1
	CO502	Connected member	1.5	0.01	0	0	-0.03
56	CO503	Main member	12.12	0	-0.75	-0.54	1.01
	CO503	Continuous member	12.12	0	0.75	-0.54	1.01
	CO503	Connected member	1.49	0.01	0	0	-0.03
56	CO504	Main member	-4.22	0	-0.73	-0.59	1.01
	CO504	Continuous member	-4.22	0	0.73	-0.59	1.01
	CO504	Connected member	1.47	0	0	0	-0.03
56	CO505	Main member	5.21	-0.01	-0.72	-0.52	0.93
	CO505	Continuous member	5.21	0.01	0.72	-0.52	0.93
	CO505	Connected member	1.43	0.02	0	0	-0.02
56	CO506	Main member	9.35	-0.03	-0.77	-0.57	0.19
	CO506	Continuous member	9.44	0	0.82	-0.67	0.19
	CO506	Connected member	1.59	0.02	-0.08	-0.1	0
56	CO507	Main member	8.81	-0.03	-0.87	-0.78	0.19
	CO507	Continuous member	8.64	0	0.72	-0.48	0.19
	CO507	Connected member	1.59	0.02	0.17	0.29	0
56	CO508	Main member	15.03	-0.03	-0.84	-0.68	0.19
	CO508	Continuous member	14.94	0	0.75	-0.52	0.19
	CO508	Connected member	1.59	0.02	0.09	0.16	0
56	CO509	Main member	-2.43	-0.03	-0.85	-0.78	0.19
	CO509	Continuous member	-2.56	0	0.73	-0.55	0.19
	CO509	Connected member	1.58	0.02	0.13	0.23	0
56	CO510	Main member	22.73	-0.01	-0.8	-0.59	1.02
	CO510	Continuous member	22.67	0.01	0.75	-0.49	1.02
	CO510	Connected member	1.54	0.02	0.06	0.1	-0.03
56	CO511	Main member	9.89	0	-0.77	-0.6	1
	CO511	Continuous member	9.83	0	0.72	-0.51	1
	CO511	Connected member	1.5	0.01	0.06	0.1	-0.03
56	CO512	Main member	9.63	0	-0.77	-0.6	1.01
	CO512	Continuous member	9.56	0	0.72	-0.5	1.01
	CO512	Connected member	1.49	0.01	0.06	0.1	-0.03
56	CO513	Main member	-6.71	0	-0.76	-0.64	1.01
	CO513	Continuous member	-6.77	0	0.71	-0.55	1.01
	CO513	Connected member	1.46	0	0.06	0.1	-0.02
56	CO514	Main member	2.72	-0.01	-0.74	-0.58	0.93
	CO514	Continuous member	2.66	0.01	0.69	-0.48	0.93
	CO514	Connected member	1.43	0.02	0.06	0.09	-0.02
56	CO515	Main member	6.86	-0.03	-0.79	-0.63	0.19
	CO515	Continuous member	6.88	0	0.79	-0.63	0.19
	CO515	Connected member	1.58	0.02	-0.02	0	0
56	CO516	Main member	6.31	-0.03	-0.89	-0.83	0.19
	CO516	Continuous member	6.08	0	0.69	-0.44	0.19
	CO516	Connected member	1.59	0.02	0.23	0.39	0
56	CO517	Main member	5.88	-0.04	-0.83	-0.7	0.31
	CO517	Continuous member	5.85	0	0.77	-0.59	0.31
	CO517	Connected member	1.6	0.04	0.04	0.11	0
56	CO518	Main member	-23.19	-0.04	-0.85	-0.86	0.31
	CO518	Continuous member	-23.3	-0.01	0.74	-0.64	0.31
	CO518	Connected member	1.59	0.03	0.11	0.22	0
56	CO519	Main member	18.71	-0.01	-0.76	-0.54	1.69
	CO519	Continuous member	18.71	0.01	0.76	-0.54	1.69
	CO519	Connected member	1.52	0.02	0	0	-0.05
56	CO520	Main member	-2.67	0	-0.72	-0.56	1.65
	CO520	Continuous member	-2.67	0	0.72	-0.56	1.65
	CO520	Connected member	1.44	0	0	0	-0.04
56	CO521	Main member	-3.11	0	-0.72	-0.56	1.67
	CO521	Continuous member	-3.11	0	0.72	-0.56	1.67
	CO521	Connected member	1.43	0	0	0	-0.04
56	CO522	Main member	-30.31	0.01	-0.69	-0.63	1.68



::LAVteam::

Page: 20/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO522	Continuous member	-30.31	-0.01	0.69	-0.63	1.68
	CO522	Connected member	1.38	-0.03	0	0	-0.04
	CO523	Main member	-14.6	-0.01	-0.67	-0.53	1.53
56	CO523	Continuous member	-14.6	0.01	0.67	-0.53	1.53
	CO523	Connected member	1.33	0.01	0	0	-0.03
	CO524	Main member	-7.72	-0.04	-0.76	-0.61	0.31
56	CO524	Continuous member	-7.58	-0.01	0.83	-0.77	0.31
	CO524	Connected member	1.59	0.04	-0.14	-0.16	0
	CO525	Main member	-8.64	-0.04	-0.92	-0.95	0.31
56	CO525	Continuous member	-8.92	-0.01	0.67	-0.46	0.31
	CO525	Connected member	1.6	0.04	0.28	0.49	0
	CO526	Main member	17.28	-0.04	-0.83	-0.65	0.31
56	CO526	Continuous member	17.24	0	0.77	-0.54	0.31
	CO526	Connected member	1.6	0.04	0.04	0.11	0
	CO527	Main member	-11.81	-0.04	-0.85	-0.82	0.31
56	CO527	Continuous member	-11.92	-0.01	0.74	-0.6	0.3
	CO527	Connected member	1.59	0.04	0.11	0.22	0
	CO528	Main member	30.1	-0.02	-0.76	-0.49	1.68
56	CO528	Continuous member	30.1	0.02	0.76	-0.49	1.68
	CO528	Connected member	1.52	0.03	0	0	-0.05
56	CO529	Main member	8.71	0	-0.72	-0.52	1.64
	CO529	Continuous member	8.71	0	0.72	-0.52	1.64
	CO529	Connected member	1.44	0.01	0	0	-0.04
56	CO530	Main member	8.26	0	-0.72	-0.51	1.65
	CO530	Continuous member	8.26	0	0.72	-0.51	1.65
	CO530	Connected member	1.43	0.01	0	0	-0.04
56	CO531	Main member	-18.95	0.01	-0.69	-0.58	1.67
	CO531	Continuous member	-18.95	-0.01	0.69	-0.58	1.67
	CO531	Connected member	1.38	-0.02	0	0	-0.04
56	CO532	Main member	-3.24	-0.01	-0.67	-0.48	1.52
	CO532	Continuous member	-3.24	0.01	0.67	-0.48	1.52
	CO532	Connected member	1.33	0.02	0	0	-0.03
56	CO533	Main member	3.67	-0.04	-0.75	-0.56	0.31
	CO533	Continuous member	3.81	0	0.83	-0.72	0.31
	CO533	Connected member	1.59	0.04	-0.14	-0.16	0
56	CO534	Main member	2.75	-0.04	-0.92	-0.9	0.31
	CO534	Continuous member	2.47	-0.01	0.67	-0.41	0.31
	CO534	Connected member	1.6	0.04	0.28	0.49	0
56	CO535	Main member	20	-0.04	-0.83	-0.64	0.31
	CO535	Continuous member	19.97	0	0.77	-0.53	0.3
	CO535	Connected member	1.6	0.04	0.04	0.11	0
56	CO536	Main member	-9.08	-0.04	-0.85	-0.81	0.31
	CO536	Continuous member	-9.2	-0.01	0.74	-0.59	0.3
	CO536	Connected member	1.59	0.04	0.11	0.22	0
56	CO537	Main member	32.83	-0.02	-0.76	-0.48	1.67
	CO537	Continuous member	32.83	0.02	0.76	-0.48	1.67
	CO537	Connected member	1.52	0.03	0	0	-0.05
56	CO538	Main member	11.43	-0.01	-0.72	-0.51	1.63
	CO538	Continuous member	11.43	0.01	0.72	-0.51	1.63
	CO538	Connected member	1.44	0.01	0	0	-0.04
56	CO539	Main member	10.99	-0.01	-0.72	-0.5	1.65
	CO539	Continuous member	10.99	0.01	0.72	-0.5	1.65
	CO539	Connected member	1.44	0.01	0	0	-0.04
56	CO540	Main member	-16.23	0.01	-0.69	-0.58	1.66
	CO540	Continuous member	-16.23	-0.01	0.69	-0.58	1.66
	CO540	Connected member	1.39	-0.01	0	0	-0.04
56	CO541	Main member	-0.52	-0.01	-0.67	-0.47	1.51
	CO541	Continuous member	-0.52	0.01	0.67	-0.47	1.51
	CO541	Connected member	1.33	0.02	0	0	-0.03
56	CO542	Main member	6.4	-0.04	-0.76	-0.55	0.31
	CO542	Continuous member	6.53	0	0.83	-0.71	0.31
	CO542	Connected member	1.59	0.04	-0.14	-0.16	0
56	CO543	Main member	5.48	-0.04	-0.93	-0.89	0.31
	CO543	Continuous member	5.19	-0.01	0.67	-0.4	0.3
	CO543	Connected member	1.6	0.04	0.28	0.49	0
56	CO544	Main member	8.61	-0.04	-0.83	-0.69	0.31
	CO544	Continuous member	8.57	0	0.77	-0.58	0.31
	CO544	Connected member	1.6	0.04	0.04	0.11	0
56	CO545	Main member	-20.46	-0.04	-0.85	-0.86	0.31
	CO545	Continuous member	-20.58	-0.01	0.74	-0.63	0.31
	CO545	Connected member	1.59	0.03	0.11	0.22	0
56	CO546	Main member	21.44	-0.01	-0.76	-0.53	1.69
	CO546	Continuous member	21.44	0.01	0.76	-0.53	1.69
	CO546	Connected member	1.52	0.02	0	0	-0.05
56	CO547	Main member	0.05	0	-0.72	-0.55	1.65
	CO547	Continuous member	0.05	0	0.72	-0.55	1.65
	CO547	Connected member	1.44	0	0	0	-0.04
56	CO548	Main member	-0.39	0	-0.72	-0.55	1.67
	CO548	Continuous member	-0.39	0	0.72	-0.55	1.67
	CO548	Connected member	1.44	0	0	0	-0.04
56	CO549	Main member	-27.59	0.01	-0.69	-0.62	1.68
	CO549	Continuous member	-27.59	-0.01	0.69	-0.62	1.68
	CO549	Connected member	1.39	-0.02	0	0	-0.04
56	CO550	Main member	-11.88	-0.01	-0.67	-0.52	1.53
	CO550	Continuous member	-11.88	0.01	0.67	-0.52	1.53
	CO550	Connected member	1.33	0.02	0	0	-0.03
56	CO551	Main member	-4.99	-0.04	-0.76	-0.6	0.31
	CO551	Continuous member	-4.85	0	0.84	-0.76	0.31
	CO551	Connected member	1.59	0.04	-0.14	-0.16	0
56	CO552	Main member	-5.91	-0.04	-0.93	-0.94	0.31
	CO552	Continuous member	-6.19	-0.01	0.67	-0.45	0.31
	CO552	Connected member	1.6	0.04	0.28	0.49	0
56	CO553	Main member	22.33	-0.04	-0.83	-0.63	0.31
	CO553	Continuous member	22.29	0	0.77	-0.52	0.3



::LAVteam::

Page: 21/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO553	Connected member	1.6	0.04	0.04	0.11	0
	CO554	Main member	-6.76	-0.04	-0.85	-0.8	0.31
	CO554	Continuous member	-6.88	-0.01	0.74	-0.58	0.3
56	CO554	Connected member	1.59	0.04	0.11	0.22	0
	CO555	Main member	35.16	-0.02	-0.76	-0.48	1.67
	CO555	Continuous member	35.16	0.02	0.76	-0.48	1.67
56	CO555	Connected member	1.52	0.04	0	0	-0.05
	CO556	Main member	13.75	-0.01	-0.72	-0.5	1.63
	CO556	Continuous member	13.75	0.01	0.72	-0.5	1.63
56	CO556	Connected member	1.44	0.01	0	0	-0.04
	CO557	Main member	13.31	-0.01	-0.72	-0.5	1.65
	CO557	Continuous member	13.31	0.01	0.72	-0.5	1.65
56	CO557	Connected member	1.44	0.01	0	0	-0.04
	CO558	Main member	-13.91	0.01	-0.7	-0.57	1.66
	CO558	Continuous member	-13.91	-0.01	0.7	-0.57	1.66
56	CO558	Connected member	1.39	-0.01	0	0	-0.04
	CO559	Main member	1.8	-0.01	-0.67	-0.46	1.51
	CO559	Continuous member	1.8	0.01	0.67	-0.46	1.51
56	CO559	Connected member	1.33	0.03	0	0	-0.03
	CO560	Main member	8.72	-0.04	-0.76	-0.54	0.31
	CO560	Continuous member	8.86	0	0.84	-0.7	0.3
56	CO560	Connected member	1.59	0.04	-0.14	-0.16	0
	CO561	Main member	7.8	-0.04	-0.93	-0.88	0.31
	CO561	Continuous member	7.51	-0.01	0.67	-0.4	0.3
56	CO561	Connected member	1.6	0.04	0.28	0.49	0
	CO562	Main member	21.08	-0.04	-0.84	-0.66	0.31
	CO562	Continuous member	21.01	0	0.76	-0.5	0.3
56	CO562	Connected member	1.6	0.04	0.07	0.16	0
	CO563	Main member	-8.01	-0.04	-0.86	-0.83	0.31
	CO563	Continuous member	-8.16	-0.01	0.73	-0.56	0.3
56	CO563	Connected member	1.59	0.04	0.15	0.27	0
	CO564	Main member	33.91	-0.02	-0.77	-0.5	1.67
	CO564	Continuous member	33.88	0.02	0.75	-0.46	1.67
56	CO564	Connected member	1.52	0.03	0.03	0.05	-0.05
	CO565	Main member	12.51	-0.01	-0.73	-0.53	1.63
	CO565	Continuous member	12.47	0.01	0.71	-0.48	1.63
56	CO565	Connected member	1.44	0.01	0.03	0.05	-0.04
	CO566	Main member	12.06	-0.01	-0.73	-0.52	1.65
	CO566	Continuous member	12.03	0.01	0.71	-0.48	1.65
56	CO566	Connected member	1.44	0.01	0.03	0.05	-0.04
	CO567	Main member	-15.15	0.01	-0.71	-0.6	1.66
	CO567	Continuous member	-15.19	-0.01	0.68	-0.55	1.66
56	CO567	Connected member	1.39	-0.01	0.03	0.05	-0.04
	CO568	Main member	0.56	-0.01	-0.68	-0.49	1.51
	CO568	Continuous member	0.52	0.01	0.66	-0.44	1.51
56	CO568	Connected member	1.33	0.03	0.03	0.05	-0.03
	CO569	Main member	7.47	-0.04	-0.77	-0.57	0.31
	CO569	Continuous member	7.58	0	0.82	-0.68	0.31
56	CO569	Connected member	1.59	0.04	-0.1	-0.11	0
	CO570	Main member	6.55	-0.04	-0.94	-0.91	0.31
	CO570	Continuous member	6.23	-0.01	0.66	-0.38	0.3
56	CO570	Connected member	1.6	0.04	0.32	0.54	0
	CO571	Main member	25.06	-0.04	-0.83	-0.62	0.31
	CO571	Continuous member	25.02	0	0.77	-0.52	0.3
56	CO571	Connected member	1.61	0.04	0.04	0.11	0
	CO572	Main member	-4.04	-0.04	-0.86	-0.79	0.31
	CO572	Continuous member	-4.15	-0.01	0.74	-0.57	0.3
56	CO572	Connected member	1.59	0.04	0.12	0.22	0
	CO573	Main member	37.88	-0.02	-0.76	-0.47	1.67
	CO573	Continuous member	37.88	0.02	0.76	-0.47	1.67
56	CO573	Connected member	1.52	0.04	0	0	-0.05
	CO574	Main member	16.48	-0.01	-0.72	-0.49	1.63
	CO574	Continuous member	16.48	0.01	0.72	-0.49	1.63
56	CO574	Connected member	1.45	0.01	0	0	-0.04
	CO575	Main member	16.03	-0.01	-0.72	-0.49	1.65
	CO575	Continuous member	16.03	0.01	0.72	-0.49	1.65
56	CO575	Connected member	1.44	0.02	0	0	-0.04
	CO576	Main member	-11.19	0	-0.7	-0.56	1.66
	CO576	Continuous member	-11.19	0	0.7	-0.56	1.66
56	CO576	Connected member	1.39	-0.01	0	0	-0.04
	CO577	Main member	4.52	-0.01	-0.67	-0.45	1.51
	CO577	Continuous member	4.52	0.01	0.67	-0.45	1.51
56	CO577	Connected member	1.34	0.03	0	0	-0.03
	CO578	Main member	11.45	-0.04	-0.76	-0.53	0.31
	CO578	Continuous member	11.58	0	0.84	-0.69	0.3
56	CO578	Connected member	1.6	0.04	-0.14	-0.16	0
	CO579	Main member	10.52	-0.04	-0.93	-0.88	0.31
	CO579	Continuous member	10.24	-0.01	0.67	-0.39	0.3
56	CO579	Connected member	1.6	0.04	0.28	0.49	0
	CO580	Main member	23.81	-0.04	-0.84	-0.65	0.31
	CO580	Continuous member	23.74	0	0.76	-0.5	0.3
56	CO580	Connected member	1.61	0.04	0.07	0.16	0
	CO581	Main member	-5.28	-0.04	-0.87	-0.82	0.31
	CO581	Continuous member	-5.43	-0.01	0.73	-0.55	0.3
56	CO581	Connected member	1.59	0.04	0.15	0.27	0
	CO582	Main member	36.64	-0.02	-0.77	-0.49	1.67
	CO582	Continuous member	36.6	0.02	0.75	-0.45	1.67
56	CO582	Connected member	1.52	0.04	0.03	0.05	-0.05
	CO583	Main member	15.23	-0.01	-0.73	-0.52	1.63
	CO583	Continuous member	15.2	0.01	0.71	-0.47	1.63
56	CO583	Connected member	1.45	0.01	0.03	0.05	-0.04
	CO584	Main member	14.78	-0.01	-0.73	-0.52	1.65
	CO584	Continuous member	14.75	0.01	0.71	-0.47	1.65
56	CO584	Connected member	1.44	0.01	0.03	0.05	-0.04



::LAV/team::

Page: 22/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO585	Main member	-12.43	0	-0.71	-0.59	1.66
	CO585	Continuous member	-12.47	-0.01	0.68	-0.54	1.66
	CO585	Connected member	1.39	-0.01	0.03	0.05	-0.04
56	CO586	Main member	3.28	-0.01	-0.68	-0.48	1.51
	CO586	Continuous member	3.24	0.01	0.66	-0.44	1.51
	CO586	Connected member	1.34	0.03	0.03	0.05	-0.03
56	CO587	Main member	10.2	-0.04	-0.77	-0.56	0.31
	CO587	Continuous member	10.3	0	0.82	-0.67	0.3
	CO587	Connected member	1.59	0.04	-0.1	-0.11	0
56	CO588	Main member	9.28	-0.04	-0.94	-0.9	0.31
	CO588	Continuous member	8.96	-0.01	0.66	-0.37	0.3
	CO588	Connected member	1.6	0.04	0.32	0.54	0
56	CO589	Main member	13.66	-0.04	-0.83	-0.67	0.31
	CO589	Continuous member	13.62	0	0.77	-0.56	0.31
	CO589	Connected member	1.61	0.04	0.04	0.11	0
56	CO590	Main member	-15.42	-0.04	-0.86	-0.84	0.31
	CO590	Continuous member	-15.54	-0.01	0.74	-0.62	0.31
	CO590	Connected member	1.59	0.04	0.11	0.22	0
56	CO591	Main member	26.49	-0.01	-0.76	-0.51	1.68
	CO591	Continuous member	26.49	0.01	0.76	-0.51	1.68
	CO591	Connected member	1.53	0.03	0	0	-0.05
56	CO592	Main member	5.1	0	-0.72	-0.54	1.64
	CO592	Continuous member	5.1	0	0.72	-0.54	1.64
	CO592	Connected member	1.45	0.01	0	0	-0.04
56	CO593	Main member	4.65	0	-0.72	-0.53	1.66
	CO593	Continuous member	4.65	0	0.72	-0.53	1.66
	CO593	Connected member	1.44	0.01	0	0	-0.04
56	CO594	Main member	-22.56	0.01	-0.7	-0.61	1.67
	CO594	Continuous member	-22.56	-0.01	0.7	-0.61	1.67
	CO594	Connected member	1.39	-0.02	0	0	-0.04
56	CO595	Main member	-6.85	-0.01	-0.67	-0.5	1.52
	CO595	Continuous member	-6.85	0.01	0.67	-0.5	1.52
	CO595	Connected member	1.34	0.02	0	0	-0.03
56	CO596	Main member	0.06	-0.04	-0.76	-0.58	0.31
	CO596	Continuous member	0.19	0	0.84	-0.74	0.31
	CO596	Connected member	1.6	0.04	-0.14	-0.16	0
56	CO597	Main member	-0.87	-0.04	-0.93	-0.92	0.31
	CO597	Continuous member	-1.15	-0.01	0.68	-0.43	0.31
	CO597	Connected member	1.6	0.04	0.28	0.49	0
56	CO598	Main member	12.41	-0.04	-0.85	-0.7	0.31
	CO598	Continuous member	12.34	0	0.76	-0.54	0.31
	CO598	Connected member	1.61	0.04	0.07	0.16	0
56	CO599	Main member	-16.67	-0.04	-0.87	-0.87	0.31
	CO599	Continuous member	-16.81	-0.01	0.73	-0.6	0.31
	CO599	Connected member	1.59	0.04	0.15	0.27	0
56	CO600	Main member	25.24	-0.01	-0.77	-0.54	1.68
	CO600	Continuous member	25.21	0.01	0.75	-0.49	1.68
	CO600	Connected member	1.53	0.03	0.03	0.05	-0.05
56	CO601	Main member	3.85	0	-0.74	-0.57	1.64
	CO601	Continuous member	3.82	0	0.71	-0.52	1.64
	CO601	Connected member	1.45	0	0.03	0.05	-0.04
56	CO602	Main member	3.41	0	-0.73	-0.56	1.66
	CO602	Continuous member	3.37	0	0.71	-0.51	1.66
	CO602	Connected member	1.44	0.01	0.03	0.05	-0.04
56	CO603	Main member	-23.8	0.01	-0.71	-0.63	1.68
	CO603	Continuous member	-23.83	-0.01	0.68	-0.59	1.68
	CO603	Connected member	1.39	-0.02	0.03	0.05	-0.04
56	CO604	Main member	-8.09	-0.01	-0.68	-0.53	1.53
	CO604	Continuous member	-8.12	0.01	0.66	-0.48	1.53
	CO604	Connected member	1.34	0.02	0.03	0.05	-0.03
56	CO605	Main member	-1.19	-0.04	-0.77	-0.61	0.31
	CO605	Continuous member	-1.09	0	0.83	-0.72	0.31
	CO605	Connected member	1.6	0.04	-0.1	-0.11	0
56	CO606	Main member	-2.11	-0.04	-0.94	-0.95	0.31
	CO606	Continuous member	-2.43	-0.01	0.66	-0.41	0.31
	CO606	Connected member	1.6	0.04	0.32	0.53	0
56	CO607	Main member	10.93	-0.04	-0.83	-0.68	0.31
	CO607	Continuous member	10.9	0	0.77	-0.57	0.31
	CO607	Connected member	1.61	0.04	0.04	0.11	0
56	CO608	Main member	-18.14	-0.04	-0.85	-0.85	0.31
	CO608	Continuous member	-18.26	-0.01	0.74	-0.63	0.31
	CO608	Connected member	1.59	0.04	0.11	0.22	0
56	CO609	Main member	23.76	-0.01	-0.76	-0.52	1.68
	CO609	Continuous member	23.76	0.01	0.76	-0.52	1.68
	CO609	Connected member	1.53	0.03	0	0	-0.05
56	CO610	Main member	2.37	0	-0.72	-0.55	1.65
	CO610	Continuous member	2.37	0	0.72	-0.55	1.65
	CO610	Connected member	1.45	0	0	0	-0.04
56	CO611	Main member	1.93	0	-0.72	-0.54	1.66
	CO611	Continuous member	1.93	0	0.72	-0.54	1.66
	CO611	Connected member	1.44	0	0	0	-0.04
56	CO612	Main member	-25.28	0.01	-0.69	-0.61	1.68
	CO612	Continuous member	-25.28	-0.01	0.69	-0.61	1.68
	CO612	Connected member	1.39	-0.02	0	0	-0.04
56	CO613	Main member	-9.57	-0.01	-0.67	-0.51	1.53
	CO613	Continuous member	-9.57	0.01	0.67	-0.51	1.53
	CO613	Connected member	1.34	0.02	0	0	-0.03
56	CO614	Main member	-2.67	-0.04	-0.76	-0.59	0.31
	CO614	Continuous member	-2.53	0	0.84	-0.75	0.31
	CO614	Connected member	1.59	0.04	-0.14	-0.16	0
56	CO615	Main member	-3.59	-0.04	-0.93	-0.93	0.31
	CO615	Continuous member	-3.87	-0.01	0.68	-0.44	0.31
	CO615	Connected member	1.6	0.04	0.28	0.49	0
56	CO616	Main member	9.69	-0.04	-0.84	-0.71	0.31



::LAVteam::

Page: 23/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO616	Continuous member	9.62	0	0.76	-0.55	0.31
	CO616	Connected member	1.61	0.04	0.07	0.16	0
	CO617	Main member	-19.39	-0.04	-0.86	-0.88	0.31
56	CO617	Continuous member	-19.54	-0.01	0.73	-0.61	0.31
	CO617	Connected member	1.59	0.04	0.15	0.27	0
	CO618	Main member	22.52	-0.01	-0.77	-0.55	1.69
56	CO618	Continuous member	22.48	0.01	0.75	-0.5	1.69
	CO618	Connected member	1.52	0.02	0.03	0.05	-0.05
	CO619	Main member	1.13	0	-0.73	-0.57	1.65
56	CO619	Continuous member	1.1	0	0.71	-0.53	1.65
	CO619	Connected member	1.44	0	0.03	0.05	-0.04
	CO620	Main member	0.68	0	-0.73	-0.57	1.66
56	CO620	Continuous member	0.65	0	0.71	-0.52	1.66
	CO620	Connected member	1.44	0	0.03	0.05	-0.04
	CO621	Main member	-26.52	0.01	-0.71	-0.64	1.68
56	CO621	Continuous member	-26.55	-0.01	0.68	-0.59	1.68
	CO621	Connected member	1.39	-0.02	0.03	0.05	-0.04
	CO622	Main member	-10.81	-0.01	-0.68	-0.54	1.53
56	CO622	Continuous member	-10.84	0.01	0.66	-0.49	1.53
	CO622	Connected member	1.33	0.02	0.03	0.05	-0.03
	CO623	Main member	-3.92	-0.04	-0.77	-0.62	0.31
56	CO623	Continuous member	-3.81	0	0.82	-0.73	0.31
	CO623	Connected member	1.59	0.04	-0.1	-0.11	0
	CO624	Main member	-4.84	-0.04	-0.94	-0.96	0.31
56	CO624	Continuous member	-5.15	-0.01	0.66	-0.42	0.31
	CO624	Connected member	1.6	0.04	0.32	0.53	0
	CO625	Main member	9.75	0	-0.78	-0.6	0.01
56	CO625	Continuous member	9.75	0	0.78	-0.6	0.01
	CO625	Connected member	1.56	0	0	0	0
	CO626	Main member	18.18	0	-0.78	-0.57	0.01
56	CO626	Continuous member	18.18	0	0.78	-0.57	0.01
	CO626	Connected member	1.56	0	0	0	0
	CO627	Main member	20.2	0	-0.78	-0.56	0.01
56	CO627	Continuous member	20.2	0	0.78	-0.56	0.01
	CO627	Connected member	1.56	0	0	0	0
	CO628	Main member	11.77	0	-0.78	-0.59	0.01
56	CO628	Continuous member	11.77	0	0.78	-0.59	0.01
	CO628	Connected member	1.56	0	0	0	0
	CO629	Main member	23.21	0	-0.79	-0.56	0.01
56	CO629	Continuous member	23.21	0	0.79	-0.56	0.01
	CO629	Connected member	1.57	0	0	0	0
	CO630	Main member	31.66	0	-0.78	-0.52	0.01
56	CO630	Continuous member	31.66	0	0.78	-0.52	0.01
	CO630	Connected member	1.57	0	0	0	0
	CO631	Main member	33.68	0	-0.78	-0.51	0.01
56	CO631	Continuous member	33.68	0	0.78	-0.51	0.01
	CO631	Connected member	1.57	0	0	0	0
	CO632	Main member	25.23	0	-0.79	-0.55	0.01
56	CO632	Continuous member	25.23	0	0.79	-0.55	0.01
	CO632	Connected member	1.57	0	0	0	0
	CO633	Main member	35.03	0	-0.78	-0.51	0.02
56	CO633	Continuous member	35.03	0	0.78	-0.51	0.02
	CO633	Connected member	1.57	0	0	0	0
	CO634	Main member	34.19	0	-0.79	-0.53	0.01
56	CO634	Continuous member	34.17	0	0.78	-0.5	0.01
	CO634	Connected member	1.57	0	0.02	0.03	0
	CO635	Main member	37.05	0	-0.79	-0.5	0.02
56	CO635	Continuous member	37.05	0	0.79	-0.5	0.02
	CO635	Connected member	1.57	0	0	0	0
	CO636	Main member	36.22	0	-0.79	-0.52	0.02
56	CO636	Continuous member	36.19	0	0.78	-0.49	0.02
	CO636	Connected member	1.57	0	0.02	0.03	0
	CO637	Main member	28.6	0	-0.79	-0.54	0.01
56	CO637	Continuous member	28.6	0	0.79	-0.54	0.01
	CO637	Connected member	1.58	0	0	0	0
	CO638	Main member	27.77	0	-0.79	-0.56	0.01
56	CO638	Continuous member	27.75	0	0.78	-0.53	0.01
	CO638	Connected member	1.57	0	0.02	0.03	0
	CO639	Main member	33.47	-0.02	-0.81	-0.55	0.13
56	CO639	Continuous member	33.46	0	0.78	-0.51	0.13
	CO639	Connected member	1.59	0.02	0.01	0.04	0
	CO640	Main member	21.83	-0.02	-0.82	-0.62	0.13
56	CO640	Continuous member	21.78	0	0.77	-0.53	0.13
	CO640	Connected member	1.59	0.02	0.05	0.09	0
	CO641	Main member	38.61	-0.01	-0.78	-0.49	0.69
56	CO641	Continuous member	38.61	0.01	0.78	-0.49	0.69
	CO641	Connected member	1.56	0.02	0	0	-0.02
	CO642	Main member	30.04	-0.01	-0.76	-0.5	0.67
56	CO642	Continuous member	30.04	0.01	0.76	-0.5	0.67
	CO642	Connected member	1.53	0.01	0	0	-0.02
	CO643	Main member	29.86	-0.01	-0.76	-0.49	0.68
56	CO643	Continuous member	29.86	0.01	0.76	-0.49	0.68
	CO643	Connected member	1.52	0.01	0	0	-0.02
	CO644	Main member	18.96	0	-0.75	-0.52	0.68
56	CO644	Continuous member	18.96	0	0.75	-0.52	0.68
	CO644	Connected member	1.51	0.01	0	0	-0.02
	CO645	Main member	25.25	-0.01	-0.74	-0.48	0.63
56	CO645	Continuous member	25.25	0.01	0.74	-0.48	0.63
	CO645	Connected member	1.48	0.02	0	0	-0.01
	CO646	Main member	28.02	-0.02	-0.78	-0.51	0.13
56	CO646	Continuous member	28.08	0	0.81	-0.58	0.13
	CO646	Connected member	1.58	0.02	-0.05	-0.06	0
	CO647	Main member	27.66	-0.02	-0.84	-0.65	0.13
56	CO647	Continuous member	27.55	0	0.74	-0.45	0.13



::LAVteam::

Page: 24/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO647	Connected member	1.59	0.02	0.11	0.2	0
	CO648	Main member	32.64	-0.02	-0.81	-0.57	0.13
	CO648	Continuous member	32.61	0	0.77	-0.49	0.13
56	CO648	Connected member	1.59	0.02	0.04	0.08	0
	CO649	Main member	21	-0.02	-0.82	-0.64	0.13
	CO649	Continuous member	20.93	0	0.76	-0.51	0.13
56	CO649	Connected member	1.58	0.02	0.07	0.12	0
	CO650	Main member	37.78	-0.01	-0.78	-0.5	0.69
	CO650	Continuous member	37.76	0.01	0.77	-0.47	0.69
56	CO650	Connected member	1.55	0.02	0.02	0.03	-0.02
	CO651	Main member	29.21	-0.01	-0.77	-0.51	0.67
	CO651	Continuous member	29.19	0.01	0.75	-0.48	0.67
56	CO651	Connected member	1.52	0.01	0.02	0.03	-0.02
	CO652	Main member	29.03	-0.01	-0.77	-0.51	0.68
	CO652	Continuous member	29.01	0.01	0.75	-0.48	0.68
56	CO652	Connected member	1.52	0.01	0.02	0.03	-0.02
	CO653	Main member	18.13	0	-0.76	-0.54	0.68
	CO653	Continuous member	18.11	0	0.74	-0.51	0.68
56	CO653	Connected member	1.5	0.01	0.02	0.03	-0.02
	CO654	Main member	24.42	-0.01	-0.75	-0.5	0.63
	CO654	Continuous member	24.4	0.01	0.73	-0.47	0.63
56	CO654	Connected member	1.48	0.02	0.02	0.03	-0.01
	CO655	Main member	27.19	-0.02	-0.78	-0.53	0.13
	CO655	Continuous member	27.23	0	0.8	-0.56	0.13
56	CO655	Connected member	1.58	0.02	-0.03	-0.03	0
	CO656	Main member	26.83	-0.02	-0.85	-0.67	0.13
	CO656	Continuous member	26.69	0	0.73	-0.44	0.13
56	CO656	Connected member	1.59	0.02	0.14	0.23	0
	CO657	Main member	35.5	-0.02	-0.81	-0.54	0.13
	CO657	Continuous member	35.48	0	0.78	-0.5	0.13
56	CO657	Connected member	1.59	0.02	0.01	0.04	0
	CO658	Main member	23.85	-0.02	-0.82	-0.61	0.13
	CO658	Continuous member	23.8	0	0.77	-0.52	0.13
56	CO658	Connected member	1.59	0.02	0.05	0.09	0
	CO659	Main member	40.64	-0.01	-0.78	-0.48	0.69
	CO659	Continuous member	40.64	0.01	0.78	-0.48	0.69
56	CO659	Connected member	1.56	0.02	0	0	-0.02
	CO660	Main member	32.06	-0.01	-0.76	-0.49	0.67
	CO660	Continuous member	32.06	0.01	0.76	-0.49	0.67
56	CO660	Connected member	1.53	0.01	0	0	-0.02
	CO661	Main member	31.88	-0.01	-0.76	-0.49	0.68
	CO661	Continuous member	31.88	0.01	0.76	-0.49	0.68
56	CO661	Connected member	1.52	0.01	0	0	-0.02
	CO662	Main member	20.98	0	-0.75	-0.52	0.68
	CO662	Continuous member	20.98	0	0.75	-0.52	0.68
56	CO662	Connected member	1.51	0.01	0	0	-0.02
	CO663	Main member	27.27	-0.01	-0.74	-0.48	0.63
	CO663	Continuous member	27.27	0.01	0.74	-0.48	0.63
56	CO663	Connected member	1.48	0.02	0	0	-0.01
	CO664	Main member	30.05	-0.02	-0.78	-0.51	0.13
	CO664	Continuous member	30.1	0	0.81	-0.57	0.13
56	CO664	Connected member	1.59	0.02	-0.05	-0.06	0
	CO665	Main member	29.68	-0.02	-0.84	-0.64	0.13
	CO665	Continuous member	29.57	0	0.74	-0.45	0.13
56	CO665	Connected member	1.59	0.02	0.11	0.2	0
	CO666	Main member	34.66	-0.02	-0.81	-0.56	0.13
	CO666	Continuous member	34.63	0	0.77	-0.48	0.13
56	CO666	Connected member	1.59	0.02	0.04	0.08	0
	CO667	Main member	23.02	-0.02	-0.82	-0.63	0.13
	CO667	Continuous member	22.95	0	0.76	-0.51	0.13
56	CO667	Connected member	1.59	0.02	0.07	0.12	0
	CO668	Main member	39.8	-0.01	-0.79	-0.5	0.69
	CO668	Continuous member	39.78	0.01	0.77	-0.46	0.69
56	CO668	Connected member	1.56	0.02	0.02	0.03	-0.02
	CO669	Main member	31.23	-0.01	-0.77	-0.51	0.67
	CO669	Continuous member	31.21	0.01	0.75	-0.48	0.67
56	CO669	Connected member	1.53	0.01	0.02	0.03	-0.02
	CO670	Main member	31.05	-0.01	-0.77	-0.51	0.68
	CO670	Continuous member	31.03	0.01	0.75	-0.47	0.68
56	CO670	Connected member	1.52	0.01	0.02	0.03	-0.02
	CO671	Main member	20.15	0	-0.76	-0.54	0.68
	CO671	Continuous member	20.13	0	0.74	-0.5	0.68
56	CO671	Connected member	1.51	0.01	0.02	0.03	-0.02
	CO672	Main member	26.44	-0.01	-0.75	-0.49	0.63
	CO672	Continuous member	26.41	0.01	0.73	-0.46	0.63
56	CO672	Connected member	1.48	0.02	0.02	0.03	-0.01
	CO673	Main member	29.21	-0.02	-0.78	-0.52	0.13
	CO673	Continuous member	29.25	0	0.8	-0.56	0.13
56	CO673	Connected member	1.59	0.02	-0.03	-0.03	0
	CO674	Main member	28.85	-0.02	-0.85	-0.66	0.13
	CO674	Continuous member	28.71	0	0.73	-0.43	0.13
56	CO674	Connected member	1.59	0.02	0.14	0.23	0
	CO675	Main member	27.05	-0.02	-0.81	-0.58	0.13
	CO675	Continuous member	27.04	0	0.78	-0.53	0.13
56	CO675	Connected member	1.59	0.02	0.01	0.04	0
	CO676	Main member	15.41	-0.02	-0.82	-0.65	0.13
	CO676	Continuous member	15.36	0	0.77	-0.56	0.13
56	CO676	Connected member	1.59	0.02	0.05	0.09	0
	CO677	Main member	32.19	-0.01	-0.78	-0.51	0.69
	CO677	Continuous member	32.19	0.01	0.78	-0.51	0.69
56	CO677	Connected member	1.56	0.01	0	0	-0.02
	CO678	Main member	23.62	0	-0.76	-0.52	0.67
	CO678	Continuous member	23.62	0	0.76	-0.52	0.67
	CO678	Connected member	1.53	0.01	0	0	-0.02



::LAV/team::

Page: 25/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO679	Main member	23.44	-0.01	-0.76	-0.52	0.68
	CO679	Continuous member	23.44	0.01	0.76	-0.52	0.68
	CO679	Connected member	1.53	0.01	0	0	-0.02
56	CO680	Main member	12.54	0	-0.75	-0.55	0.68
	CO680	Continuous member	12.54	0	0.75	-0.55	0.68
	CO680	Connected member	1.51	0.01	0	0	-0.02
56	CO681	Main member	18.83	-0.01	-0.74	-0.51	0.63
	CO681	Continuous member	18.83	0.01	0.74	-0.51	0.63
	CO681	Connected member	1.49	0.02	0	0	-0.01
56	CO682	Main member	21.66	-0.02	-0.78	-0.54	0.13
	CO682	Continuous member	21.66	0	0.81	-0.61	0.13
	CO682	Connected member	1.59	0.02	-0.05	-0.06	0
56	CO683	Main member	21.24	-0.02	-0.85	-0.68	0.13
	CO683	Continuous member	21.12	0	0.74	-0.48	0.13
	CO683	Connected member	1.59	0.02	0.11	0.2	0
56	CO684	Main member	26.22	-0.02	-0.82	-0.6	0.13
	CO684	Continuous member	26.18	0	0.78	-0.52	0.13
	CO684	Connected member	1.59	0.02	0.04	0.08	0
56	CO685	Main member	14.57	-0.02	-0.82	-0.67	0.13
	CO685	Continuous member	14.51	0	0.76	-0.54	0.13
	CO685	Connected member	1.59	0.02	0.07	0.12	0
56	CO686	Main member	31.36	-0.01	-0.79	-0.53	0.69
	CO686	Continuous member	31.34	0.01	0.77	-0.5	0.69
	CO686	Connected member	1.56	0.01	0.02	0.03	-0.02
56	CO687	Main member	22.79	0	-0.77	-0.54	0.67
	CO687	Continuous member	22.77	0	0.76	-0.51	0.67
	CO687	Connected member	1.53	0.01	0.02	0.03	-0.02
56	CO688	Main member	22.61	-0.01	-0.77	-0.54	0.68
	CO688	Continuous member	22.59	0	0.75	-0.51	0.68
	CO688	Connected member	1.53	0.01	0.02	0.03	-0.02
56	CO689	Main member	11.71	0	-0.76	-0.57	0.68
	CO689	Continuous member	11.69	0	0.75	-0.54	0.68
	CO689	Connected member	1.51	0.01	0.02	0.03	-0.02
56	CO690	Main member	18	-0.01	-0.75	-0.53	0.63
	CO690	Continuous member	17.98	0.01	0.73	-0.5	0.63
	CO690	Connected member	1.49	0.02	0.02	0.03	-0.01
56	CO691	Main member	20.77	-0.02	-0.79	-0.56	0.13
	CO691	Continuous member	20.8	0	0.8	-0.59	0.13
	CO691	Connected member	1.59	0.02	-0.03	-0.03	0
56	CO692	Main member	20.41	-0.02	-0.85	-0.7	0.13
	CO692	Continuous member	20.27	0	0.74	-0.47	0.13
	CO692	Connected member	1.59	0.02	0.14	0.23	0
56	CO693	Main member	30.1	-0.02	-0.8	-0.56	0.13
	CO693	Continuous member	30.09	0	0.78	-0.52	0.13
	CO693	Connected member	1.59	0.02	0.01	0.04	0
56	CO694	Main member	18.46	-0.02	-0.81	-0.63	0.13
	CO694	Continuous member	18.41	0	0.77	-0.54	0.13
	CO694	Connected member	1.58	0.02	0.05	0.09	0
56	CO695	Main member	35.24	-0.01	-0.78	-0.5	0.69
	CO695	Continuous member	35.24	0.01	0.78	-0.5	0.69
	CO695	Connected member	1.55	0.02	0	0	-0.02
56	CO696	Main member	26.68	-0.01	-0.76	-0.51	0.67
	CO696	Continuous member	26.68	0.01	0.76	-0.51	0.67
	CO696	Connected member	1.52	0.01	0	0	-0.02
56	CO697	Main member	26.5	-0.01	-0.76	-0.51	0.68
	CO697	Continuous member	26.5	0.01	0.76	-0.51	0.68
	CO697	Connected member	1.52	0.01	0	0	-0.02
56	CO698	Main member	15.59	0	-0.75	-0.53	0.68
	CO698	Continuous member	15.59	0	0.75	-0.53	0.68
	CO698	Connected member	1.5	0.01	0	0	-0.02
56	CO699	Main member	21.88	-0.01	-0.74	-0.49	0.63
	CO699	Continuous member	21.88	0.01	0.74	-0.49	0.63
	CO699	Connected member	1.48	0.02	0	0	-0.01
56	CO700	Main member	24.66	-0.02	-0.77	-0.52	0.13
	CO700	Continuous member	24.71	0	0.81	-0.59	0.13
	CO700	Connected member	1.58	0.02	-0.05	-0.06	0
56	CO701	Main member	24.29	-0.02	-0.84	-0.66	0.13
	CO701	Continuous member	24.18	0	0.74	-0.46	0.13
	CO701	Connected member	1.59	0.02	0.11	0.2	0
56	CO702	Main member	32.13	-0.02	-0.81	-0.55	0.13
	CO702	Continuous member	32.11	0	0.78	-0.51	0.13
	CO702	Connected member	1.59	0.02	0.01	0.04	0
56	CO703	Main member	20.48	-0.02	-0.81	-0.62	0.13
	CO703	Continuous member	20.43	0	0.77	-0.53	0.13
	CO703	Connected member	1.58	0.02	0.05	0.09	0
56	CO704	Main member	37.27	-0.01	-0.78	-0.49	0.69
	CO704	Continuous member	37.27	0.01	0.78	-0.49	0.69
	CO704	Connected member	1.55	0.02	0	0	-0.02
56	CO705	Main member	28.7	-0.01	-0.76	-0.5	0.67
	CO705	Continuous member	28.7	0.01	0.76	-0.5	0.67
	CO705	Connected member	1.52	0.01	0	0	-0.02
56	CO706	Main member	28.52	-0.01	-0.76	-0.5	0.68
	CO706	Continuous member	28.52	0.01	0.76	-0.5	0.68
	CO706	Connected member	1.52	0.01	0	0	-0.02
56	CO707	Main member	17.61	0	-0.75	-0.53	0.68
	CO707	Continuous member	17.61	0	0.75	-0.53	0.68
	CO707	Connected member	1.5	0.01	0	0	-0.02
56	CO708	Main member	23.9	-0.01	-0.74	-0.49	0.63
	CO708	Continuous member	23.9	0.01	0.74	-0.49	0.63
	CO708	Connected member	1.48	0.02	0	0	-0.01
56	CO709	Main member	26.68	-0.02	-0.78	-0.52	0.13
	CO709	Continuous member	26.73	0	0.81	-0.58	0.13
	CO709	Connected member	1.58	0.02	-0.05	-0.06	0
56	CO710	Main member	26.31	-0.02	-0.84	-0.65	0.13



::LAV/team::

Page: 26/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO710	Continuous member	26.2	0	0.74	-0.46	0.13
	CO710	Connected member	1.59	0.02	0.11	0.2	0
	CO711	Main member	23.68	-0.02	-0.81	-0.59	0.13
56	CO711	Continuous member	23.67	0	0.78	-0.54	0.13
	CO711	Connected member	1.59	0.02	0.01	0.04	0
	CO712	Main member	12.04	-0.02	-0.82	-0.66	0.13
56	CO712	Continuous member	11.99	0	0.77	-0.57	0.13
	CO712	Connected member	1.59	0.02	0.05	0.09	0
	CO713	Main member	28.82	-0.01	-0.78	-0.53	0.69
56	CO713	Continuous member	28.82	0.01	0.78	-0.53	0.69
	CO713	Connected member	1.56	0.01	0	0	-0.02
	CO714	Main member	20.26	0	-0.76	-0.54	0.67
56	CO714	Continuous member	20.26	0	0.76	-0.54	0.67
	CO714	Connected member	1.53	0.01	0	0	-0.02
56	CO715	Main member	20.08	0	-0.76	-0.53	0.68
	CO715	Continuous member	20.08	0	0.76	-0.53	0.68
	CO715	Connected member	1.52	0.01	0	0	-0.02
56	CO716	Main member	9.18	0	-0.75	-0.56	0.68
	CO716	Continuous member	9.18	0	0.75	-0.56	0.68
	CO716	Connected member	1.51	0	0	0	-0.02
56	CO717	Main member	15.47	-0.01	-0.74	-0.52	0.63
	CO717	Continuous member	15.47	0.01	0.74	-0.52	0.63
	CO717	Connected member	1.48	0.02	0	0	-0.01
56	CO718	Main member	18.23	-0.02	-0.78	-0.55	0.13
	CO718	Continuous member	18.29	0	0.81	-0.62	0.13
	CO718	Connected member	1.59	0.02	-0.05	-0.06	0
56	CO719	Main member	17.87	-0.02	-0.84	-0.69	0.13
	CO719	Continuous member	17.76	0	0.74	-0.49	0.13
	CO719	Connected member	1.59	0.02	0.11	0.2	0
56	CO720	Main member	26.58	0	-0.79	-0.55	0.01
	CO720	Continuous member	26.58	0	0.79	-0.55	0.01
	CO720	Connected member	1.57	0	0	0	0
56	CO721	Main member	25.75	0	-0.79	-0.56	0.01
	CO721	Continuous member	25.73	0	0.78	-0.53	0.01
	CO721	Connected member	1.57	0	0.02	0.03	0
56	CO722	Main member	25.03	-0.02	-0.81	-0.58	0.13
	CO722	Continuous member	25.01	0	0.78	-0.54	0.13
	CO722	Connected member	1.59	0.02	0.01	0.04	0
56	CO723	Main member	13.39	-0.02	-0.82	-0.65	0.13
	CO723	Continuous member	13.34	0	0.77	-0.56	0.13
	CO723	Connected member	1.59	0.02	0.05	0.09	0
56	CO724	Main member	30.17	-0.01	-0.78	-0.52	0.69
	CO724	Continuous member	30.17	0.01	0.78	-0.52	0.69
	CO724	Connected member	1.56	0.01	0	0	-0.02
56	CO725	Main member	21.6	0	-0.76	-0.53	0.67
	CO725	Continuous member	21.6	0	0.76	-0.53	0.67
	CO725	Connected member	1.53	0.01	0	0	-0.02
56	CO726	Main member	21.42	0	-0.76	-0.53	0.68
	CO726	Continuous member	21.42	0	0.76	-0.53	0.68
	CO726	Connected member	1.52	0.01	0	0	-0.02
56	CO727	Main member	10.52	0	-0.75	-0.56	0.68
	CO727	Continuous member	10.52	0	0.75	-0.56	0.68
	CO727	Connected member	1.51	0.01	0	0	-0.02
56	CO728	Main member	16.81	-0.01	-0.74	-0.52	0.63
	CO728	Continuous member	16.81	0.01	0.74	-0.52	0.63
	CO728	Connected member	1.48	0.02	0	0	-0.01
56	CO729	Main member	19.58	-0.02	-0.78	-0.55	0.13
	CO729	Continuous member	19.64	0	0.81	-0.61	0.13
	CO729	Connected member	1.59	0.02	-0.05	-0.06	0
56	CO730	Main member	19.22	-0.02	-0.85	-0.69	0.13
	CO730	Continuous member	19.1	0	0.74	-0.49	0.13
	CO730	Connected member	1.59	0.02	0.11	0.2	0
56	CO731	Main member	24.2	-0.02	-0.81	-0.6	0.13
	CO731	Continuous member	24.16	0	0.77	-0.53	0.13
	CO731	Connected member	1.59	0.02	0.04	0.08	0
56	CO732	Main member	12.55	-0.02	-0.82	-0.67	0.13
	CO732	Continuous member	12.49	0	0.76	-0.55	0.13
	CO732	Connected member	1.59	0.02	0.07	0.12	0
56	CO733	Main member	29.34	-0.01	-0.79	-0.54	0.69
	CO733	Continuous member	29.32	0.01	0.77	-0.51	0.69
	CO733	Connected member	1.56	0.01	0.02	0.03	-0.02
56	CO734	Main member	20.77	0	-0.77	-0.55	0.67
	CO734	Continuous member	20.75	0	0.75	-0.52	0.67
	CO734	Connected member	1.53	0.01	0.02	0.03	-0.02
56	CO735	Main member	20.59	0	-0.77	-0.55	0.68
	CO735	Continuous member	20.57	0	0.75	-0.52	0.68
	CO735	Connected member	1.52	0.01	0.02	0.03	-0.02
56	CO736	Main member	9.69	0	-0.76	-0.58	0.68
	CO736	Continuous member	9.67	0	0.74	-0.55	0.68
	CO736	Connected member	1.51	0	0.02	0.03	-0.02
56	CO737	Main member	15.98	-0.01	-0.75	-0.54	0.63
	CO737	Continuous member	15.96	0.01	0.73	-0.5	0.63
	CO737	Connected member	1.48	0.02	0.02	0.03	-0.01
56	CO738	Main member	18.75	-0.02	-0.78	-0.57	0.13
	CO738	Continuous member	18.78	0	0.8	-0.6	0.13
	CO738	Connected member	1.59	0.02	-0.03	-0.03	0
56	CO739	Main member	18.39	-0.02	-0.85	-0.7	0.13
	CO739	Continuous member	18.25	0	0.74	-0.48	0.13
	CO739	Connected member	1.59	0.02	0.14	0.23	0
56	CO740	Main member	21.66	-0.02	-0.81	-0.59	0.13
	CO740	Continuous member	21.65	0	0.78	-0.55	0.13
	CO740	Connected member	1.59	0.02	0.01	0.04	0
56	CO741	Main member	10.02	-0.02	-0.82	-0.66	0.13
	CO741	Continuous member	9.97	0	0.77	-0.57	0.13



::LAVteam::

Page: 27/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO741	Connected member	1.58	0.02	0.05	0.09	0
	CO742	Main member	26.8	-0.01	-0.78	-0.53	0.69
	CO742	Continuous member	26.8	0.01	0.78	-0.53	0.69
56	CO742	Connected member	1.56	0.01	0	0	-0.02
	CO743	Main member	18.24	0	-0.76	-0.54	0.67
	CO743	Continuous member	18.24	0	0.76	-0.54	0.67
56	CO743	Connected member	1.52	0.01	0	0	-0.02
	CO744	Main member	18.06	0	-0.76	-0.54	0.68
	CO744	Continuous member	18.06	0	0.76	-0.54	0.68
56	CO744	Connected member	1.52	0.01	0	0	-0.02
	CO745	Main member	7.16	0	-0.75	-0.57	0.68
	CO745	Continuous member	7.16	0	0.75	-0.57	0.68
56	CO745	Connected member	1.5	0	0	0	-0.02
	CO746	Main member	13.45	-0.01	-0.74	-0.53	0.63
	CO746	Continuous member	13.45	0.01	0.74	-0.53	0.63
56	CO746	Connected member	1.48	0.02	0	0	-0.01
	CO747	Main member	16.21	-0.02	-0.78	-0.56	0.13
	CO747	Continuous member	16.21	0	0.81	-0.62	0.13
56	CO747	Connected member	1.58	0.02	-0.05	-0.06	0
	CO748	Main member	15.85	-0.02	-0.84	-0.7	0.13
	CO748	Continuous member	15.74	0	0.74	-0.5	0.13
56	CO748	Connected member	1.59	0.02	0.11	0.2	0
	CO749	Main member	16.48	0	-0.78	-0.58	0.01
	CO749	Continuous member	16.48	0	0.78	-0.58	0.01
56	CO749	Connected member	1.57	0	0	0	0
	CO750	Main member	14.82	0	-0.8	-0.62	0.01
	CO750	Continuous member	14.77	0	0.77	-0.55	0.01
56	CO750	Connected member	1.56	0	0.04	0.06	0
	CO751	Main member	24.92	0	-0.78	-0.54	0.01
	CO751	Continuous member	24.92	0	0.78	-0.54	0.01
56	CO751	Connected member	1.56	0	0	0	0
	CO752	Main member	23.26	0	-0.8	-0.58	0.01
	CO752	Continuous member	23.21	0	0.76	-0.52	0.01
56	CO752	Connected member	1.56	0	0.04	0.06	0
	CO753	Main member	26.94	0	-0.78	-0.54	0.01
	CO753	Continuous member	26.94	0	0.78	-0.54	0.01
56	CO753	Connected member	1.57	0	0	0	0
	CO754	Main member	25.28	0	-0.8	-0.57	0.01
	CO754	Continuous member	25.23	0	0.77	-0.51	0.01
56	CO754	Connected member	1.56	0	0.04	0.06	0
	CO755	Main member	18.5	0	-0.78	-0.57	0.01
	CO755	Continuous member	18.5	0	0.78	-0.57	0.01
56	CO755	Connected member	1.57	0	0	0	0
	CO756	Main member	16.84	0	-0.8	-0.61	0.01
	CO756	Continuous member	16.79	0	0.77	-0.55	0.01
56	CO756	Connected member	1.57	0	0.04	0.06	0
	CO757	Main member	23.37	-0.02	-0.8	-0.58	0.13
	CO757	Continuous member	23.35	0	0.78	-0.54	0.13
56	CO757	Connected member	1.58	0.02	0.01	0.04	0
	CO758	Main member	11.73	-0.02	-0.81	-0.65	0.13
	CO758	Continuous member	11.68	0	0.77	-0.56	0.13
56	CO758	Connected member	1.58	0.02	0.05	0.09	0
	CO759	Main member	28.51	-0.01	-0.77	-0.52	0.69
	CO759	Continuous member	28.51	0.01	0.77	-0.52	0.69
56	CO759	Connected member	1.55	0.01	0	0	-0.02
	CO760	Main member	19.94	0	-0.76	-0.53	0.67
	CO760	Continuous member	19.94	0	0.76	-0.53	0.67
56	CO760	Connected member	1.52	0.01	0	0	-0.02
	CO761	Main member	19.76	0	-0.76	-0.53	0.68
	CO761	Continuous member	19.76	0	0.76	-0.53	0.68
56	CO761	Connected member	1.51	0.01	0	0	-0.02
	CO762	Main member	8.87	0	-0.75	-0.56	0.68
	CO762	Continuous member	8.87	0	0.75	-0.56	0.68
56	CO762	Connected member	1.5	0	0	0	-0.02
	CO763	Main member	15.15	-0.01	-0.74	-0.51	0.63
	CO763	Continuous member	15.15	0.01	0.74	-0.51	0.63
56	CO763	Connected member	1.47	0.02	0	0	-0.01
	CO764	Main member	17.92	-0.02	-0.77	-0.55	0.13
	CO764	Continuous member	17.97	0	0.8	-0.61	0.13
56	CO764	Connected member	1.58	0.02	-0.05	-0.06	0
	CO765	Main member	17.56	-0.02	-0.84	-0.68	0.13
	CO765	Continuous member	17.44	0	0.74	-0.49	0.13
56	CO765	Connected member	1.58	0.02	0.11	0.2	0
	CO766	Main member	21.7	-0.02	-0.82	-0.62	0.13
	CO766	Continuous member	21.65	0	0.76	-0.51	0.13
56	CO766	Connected member	1.58	0.02	0.06	0.11	0
	CO767	Main member	10.06	-0.02	-0.83	-0.69	0.13
	CO767	Continuous member	9.98	0	0.75	-0.53	0.13
56	CO767	Connected member	1.58	0.02	0.09	0.15	0
	CO768	Main member	26.85	-0.01	-0.79	-0.56	0.69
	CO768	Continuous member	26.8	0.01	0.76	-0.49	0.69
56	CO768	Connected member	1.55	0.01	0.04	0.06	-0.02
	CO769	Main member	18.28	0	-0.77	-0.57	0.67
	CO769	Continuous member	18.24	0	0.74	-0.5	0.67
56	CO769	Connected member	1.52	0.01	0.04	0.06	-0.02
	CO770	Main member	18.1	0	-0.77	-0.56	0.68
	CO770	Continuous member	18.06	0	0.74	-0.5	0.68
56	CO770	Connected member	1.51	0.01	0.04	0.06	-0.02
	CO771	Main member	7.21	0	-0.76	-0.59	0.68
	CO771	Continuous member	7.16	0	0.73	-0.53	0.68
56	CO771	Connected member	1.5	0	0.04	0.06	-0.02
	CO772	Main member	13.49	-0.01	-0.75	-0.55	0.63
	CO772	Continuous member	13.45	0.01	0.72	-0.49	0.63
56	CO772	Connected member	1.47	0.02	0.04	0.06	-0.01



::LAV/team::

Page: 28/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO773	Main member	16.26	-0.02	-0.79	-0.58	0.13
	CO773	Continuous member	16.27	0	0.79	-0.58	0.13
	CO773	Connected member	1.58	0.02	-0.01	0	0
56	CO774	Main member	15.89	-0.02	-0.86	-0.72	0.13
	CO774	Continuous member	15.74	0	0.72	-0.46	0.13
	CO774	Connected member	1.58	0.02	0.16	0.26	0
56	CO775	Main member	25.39	-0.02	-0.8	-0.58	0.13
	CO775	Continuous member	25.37	0	0.78	-0.53	0.13
	CO775	Connected member	1.58	0.02	0.01	0.04	0
56	CO776	Main member	13.75	-0.02	-0.81	-0.64	0.13
	CO776	Continuous member	13.7	0	0.77	-0.55	0.13
	CO776	Connected member	1.58	0.02	0.05	0.09	0
56	CO777	Main member	30.53	-0.01	-0.77	-0.51	0.69
	CO777	Continuous member	30.53	0.01	0.77	-0.51	0.69
	CO777	Connected member	1.55	0.01	0	0	-0.02
56	CO778	Main member	21.96	0	-0.76	-0.52	0.67
	CO778	Continuous member	21.96	0	0.76	-0.52	0.67
	CO778	Connected member	1.52	0.01	0	0	-0.02
56	CO779	Main member	21.78	0	-0.76	-0.52	0.68
	CO779	Continuous member	21.78	0	0.76	-0.52	0.68
	CO779	Connected member	1.52	0.01	0	0	-0.02
56	CO780	Main member	10.88	0	-0.75	-0.55	0.68
	CO780	Continuous member	10.88	0	0.75	-0.55	0.68
	CO780	Connected member	1.5	0.01	0	0	-0.02
56	CO781	Main member	17.17	-0.01	-0.74	-0.51	0.63
	CO781	Continuous member	17.17	0.01	0.74	-0.51	0.63
	CO781	Connected member	1.48	0.02	0	0	-0.01
56	CO782	Main member	19.94	-0.02	-0.77	-0.54	0.13
	CO782	Continuous member	20	0	0.8	-0.6	0.13
	CO782	Connected member	1.58	0.02	-0.05	-0.06	0
56	CO783	Main member	19.58	-0.02	-0.84	-0.68	0.13
	CO783	Continuous member	19.46	0	0.74	-0.48	0.13
	CO783	Connected member	1.58	0.02	0.11	0.2	0
56	CO784	Main member	23.72	-0.02	-0.82	-0.61	0.13
	CO784	Continuous member	23.67	0	0.76	-0.51	0.13
	CO784	Connected member	1.58	0.02	0.06	0.11	0
56	CO785	Main member	12.08	-0.02	-0.83	-0.68	0.13
	CO785	Continuous member	11.99	0	0.75	-0.53	0.13
	CO785	Connected member	1.58	0.02	0.09	0.15	0
56	CO786	Main member	28.87	-0.01	-0.79	-0.55	0.69
	CO786	Continuous member	28.82	0.01	0.76	-0.49	0.69
	CO786	Connected member	1.55	0.01	0.04	0.06	-0.02
56	CO787	Main member	20.3	0	-0.77	-0.56	0.67
	CO787	Continuous member	20.26	0	0.74	-0.5	0.67
	CO787	Connected member	1.52	0.01	0.04	0.06	-0.02
56	CO788	Main member	20.12	0	-0.77	-0.56	0.68
	CO788	Continuous member	20.08	0	0.74	-0.49	0.68
	CO788	Connected member	1.51	0.01	0.04	0.06	-0.02
56	CO789	Main member	9.22	0	-0.76	-0.59	0.68
	CO789	Continuous member	9.18	0	0.73	-0.52	0.68
	CO789	Connected member	1.5	0	0.04	0.06	-0.02
56	CO790	Main member	15.51	-0.01	-0.75	-0.55	0.63
	CO790	Continuous member	15.47	0.01	0.72	-0.48	0.63
	CO790	Connected member	1.47	0.02	0.04	0.06	-0.01
56	CO791	Main member	18.28	-0.02	-0.79	-0.58	0.13
	CO791	Continuous member	18.29	0	0.79	-0.58	0.13
	CO791	Connected member	1.58	0.02	-0.01	0	0
56	CO792	Main member	17.91	-0.02	-0.86	-0.71	0.13
	CO792	Continuous member	17.76	0	0.72	-0.45	0.13
	CO792	Connected member	1.58	0.02	0.16	0.26	0
56	CO793	Main member	16.95	-0.02	-0.8	-0.61	0.13
	CO793	Continuous member	16.93	0	0.78	-0.57	0.13
	CO793	Connected member	1.58	0.02	0.01	0.04	0
56	CO794	Main member	5.31	-0.02	-0.81	-0.68	0.13
	CO794	Continuous member	5.26	0	0.77	-0.59	0.13
	CO794	Connected member	1.58	0.02	0.05	0.09	0
56	CO795	Main member	22.09	-0.01	-0.78	-0.55	0.69
	CO795	Continuous member	22.09	0.01	0.78	-0.55	0.69
	CO795	Connected member	1.55	0.01	0	0	-0.02
56	CO796	Main member	13.53	0	-0.76	-0.56	0.67
	CO796	Continuous member	13.53	0	0.76	-0.56	0.67
	CO796	Connected member	1.52	0.01	0	0	-0.02
56	CO797	Main member	13.35	0	-0.76	-0.56	0.68
	CO797	Continuous member	13.35	0	0.76	-0.56	0.68
	CO797	Connected member	1.52	0.01	0	0	-0.02
56	CO798	Main member	2.45	0	-0.75	-0.58	0.68
	CO798	Continuous member	2.45	0	0.75	-0.58	0.68
	CO798	Connected member	1.5	0	0	0	-0.02
56	CO799	Main member	8.74	-0.01	-0.74	-0.54	0.63
	CO799	Continuous member	8.74	0.01	0.74	-0.54	0.63
	CO799	Connected member	1.48	0.01	0	0	-0.01
56	CO800	Main member	11.5	-0.02	-0.77	-0.57	0.13
	CO800	Continuous member	11.56	0	0.81	-0.64	0.13
	CO800	Connected member	1.58	0.02	-0.05	-0.06	0
56	CO801	Main member	11.14	-0.02	-0.84	-0.71	0.13
	CO801	Continuous member	11.02	0	0.74	-0.52	0.13
	CO801	Connected member	1.58	0.02	0.11	0.2	0
56	CO802	Main member	15.28	-0.02	-0.82	-0.65	0.13
	CO802	Continuous member	15.23	0	0.76	-0.54	0.13
	CO802	Connected member	1.58	0.02	0.06	0.11	0
56	CO803	Main member	3.65	-0.02	-0.83	-0.72	0.13
	CO803	Continuous member	3.56	0	0.75	-0.56	0.13
	CO803	Connected member	1.58	0.02	0.09	0.15	0
56	CO804	Main member	20.43	-0.01	-0.79	-0.58	0.69



::LAVteam::

Page: 29/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO804	Continuous member	20.38	0	0.76	-0.52	0.69
	CO804	Connected member	1.55	0.01	0.04	0.06	-0.02
	CO805	Main member	11.86	0	-0.78	-0.59	0.67
56	CO805	Continuous member	11.82	0	0.74	-0.53	0.67
	CO805	Connected member	1.52	0.01	0.04	0.06	-0.02
	CO806	Main member	11.69	0	-0.77	-0.59	0.68
56	CO806	Continuous member	11.64	0	0.74	-0.53	0.68
	CO806	Connected member	1.52	0.01	0.04	0.06	-0.02
	CO807	Main member	0.79	0	-0.76	-0.62	0.68
56	CO807	Continuous member	0.75	0	0.73	-0.56	0.68
	CO807	Connected member	1.5	0	0.04	0.06	-0.02
	CO808	Main member	7.08	-0.01	-0.75	-0.58	0.63
56	CO808	Continuous member	7.04	0.01	0.72	-0.52	0.63
	CO808	Connected member	1.48	0.01	0.04	0.06	-0.01
	CO809	Main member	9.84	-0.02	-0.79	-0.61	0.13
56	CO809	Continuous member	9.85	0	0.79	-0.61	0.13
	CO809	Connected member	1.58	0.02	-0.01	0	0
	CO810	Main member	9.48	-0.02	-0.86	-0.75	0.13
56	CO810	Continuous member	9.32	0	0.72	-0.49	0.13
	CO810	Connected member	1.58	0.02	0.16	0.26	0
	CO811	Main member	14.93	-0.02	-0.8	-0.62	0.13
56	CO811	Continuous member	14.91	0	0.78	-0.57	0.13
	CO811	Connected member	1.58	0.02	0.01	0.04	0
	CO812	Main member	3.29	-0.02	-0.81	-0.69	0.13
56	CO812	Continuous member	3.24	0	0.77	-0.6	0.13
	CO812	Connected member	1.58	0.02	0.05	0.09	0
	CO813	Main member	20.07	0	-0.77	-0.55	0.69
56	CO813	Continuous member	20.07	0	0.77	-0.55	0.69
	CO813	Connected member	1.55	0.01	0	0	-0.02
	CO814	Main member	11.51	0	-0.76	-0.56	0.67
56	CO814	Continuous member	11.51	0	0.76	-0.56	0.67
	CO814	Connected member	1.52	0.01	0	0	-0.02
	CO815	Main member	11.33	0	-0.76	-0.56	0.68
56	CO815	Continuous member	11.33	0	0.76	-0.56	0.68
	CO815	Connected member	1.52	0.01	0	0	-0.02
	CO816	Main member	0.43	0	-0.75	-0.59	0.68
56	CO816	Continuous member	0.43	0	0.75	-0.59	0.68
	CO816	Connected member	1.5	0	0	0	-0.02
	CO817	Main member	6.72	-0.01	-0.74	-0.55	0.63
56	CO817	Continuous member	6.72	0.01	0.74	-0.55	0.63
	CO817	Connected member	1.48	0.01	0	0	-0.01
	CO818	Main member	9.48	-0.02	-0.77	-0.58	0.13
56	CO818	Continuous member	9.54	0	0.8	-0.65	0.13
	CO818	Connected member	1.58	0.02	-0.05	-0.06	0
	CO819	Main member	9.12	-0.02	-0.84	-0.72	0.13
56	CO819	Continuous member	9	0	0.74	-0.52	0.13
	CO819	Connected member	1.58	0.02	0.11	0.2	0
	CO820	Main member	13.26	-0.02	-0.82	-0.65	0.13
56	CO820	Continuous member	13.21	0	0.76	-0.55	0.13
	CO820	Connected member	1.58	0.02	0.06	0.11	0
	CO821	Main member	1.63	-0.02	-0.83	-0.72	0.13
56	CO821	Continuous member	1.54	0	0.75	-0.57	0.13
	CO821	Connected member	1.58	0.02	0.09	0.15	0
	CO822	Main member	18.41	0	-0.79	-0.59	0.69
56	CO822	Continuous member	18.36	0	0.76	-0.53	0.69
	CO822	Connected member	1.55	0.01	0.04	0.06	-0.02
	CO823	Main member	9.85	0	-0.77	-0.6	0.67
56	CO823	Continuous member	9.8	0	0.74	-0.54	0.67
	CO823	Connected member	1.52	0	0.04	0.06	-0.02
	CO824	Main member	9.67	0	-0.77	-0.6	0.68
56	CO824	Continuous member	9.62	0	0.74	-0.54	0.68
	CO824	Connected member	1.51	0.01	0.04	0.06	-0.02
	CO825	Main member	-1.23	0	-0.76	-0.63	0.68
56	CO825	Continuous member	-1.27	0	0.73	-0.56	0.68
	CO825	Connected member	1.5	0	0.04	0.06	-0.02
	CO826	Main member	5.06	-0.01	-0.75	-0.59	0.63
56	CO826	Continuous member	5.02	0.01	0.72	-0.52	0.63
	CO826	Connected member	1.47	0.01	0.04	0.06	-0.01
	CO827	Main member	7.82	-0.02	-0.79	-0.62	0.13
56	CO827	Continuous member	7.83	0	0.79	-0.62	0.13
	CO827	Connected member	1.58	0.02	-0.01	0	0
	CO828	Main member	7.46	-0.02	-0.86	-0.76	0.13
56	CO828	Continuous member	7.3	0	0.72	-0.5	0.13
	CO828	Connected member	1.58	0.02	0.16	0.26	0
	CO829	Main member	7.16	-0.03	-0.81	-0.66	0.21
56	CO829	Continuous member	7.14	0	0.77	-0.59	0.21
	CO829	Connected member	1.59	0.03	0.02	0.07	0
	CO830	Main member	-12.22	-0.03	-0.83	-0.78	0.21
56	CO830	Continuous member	-12.3	0	0.75	-0.63	0.21
	CO830	Connected member	1.58	0.02	0.08	0.15	0
	CO831	Main member	15.73	-0.01	-0.77	-0.56	1.14
56	CO831	Continuous member	15.73	0.01	0.77	-0.56	1.14
	CO831	Connected member	1.53	0.01	0	0	-0.03
	CO832	Main member	1.47	0	-0.74	-0.58	1.11
56	CO832	Continuous member	1.47	0	0.74	-0.58	1.11
	CO832	Connected member	1.48	0	0	0	-0.03
	CO833	Main member	1.17	0	-0.74	-0.57	1.12
56	CO833	Continuous member	1.17	0	0.74	-0.57	1.12
	CO833	Connected member	1.48	0	0	0	-0.03
	CO834	Main member	-16.97	0	-0.72	-0.62	1.13
56	CO834	Continuous member	-16.97	0	0.72	-0.62	1.13
	CO834	Connected member	1.44	-0.01	0	0	-0.03
	CO835	Main member	-6.49	-0.01	-0.7	-0.55	1.04
56	CO835	Continuous member	-6.49	0.01	0.7	-0.55	1.04



::LAVteam::

Page: 30/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO835	Connected member	1.41	0.01	0	0	-0.02
	CO836	Main member	-1.9	-0.03	-0.76	-0.6	0.21
	CO836	Continuous member	-1.81	0	0.82	-0.71	0.21
56	CO836	Connected member	1.58	0.03	-0.09	-0.11	0
	CO837	Main member	-2.51	-0.03	-0.88	-0.83	0.21
	CO837	Continuous member	-2.7	0	0.71	-0.51	0.21
56	CO837	Connected member	1.58	0.03	0.19	0.32	0
	CO838	Main member	15.6	-0.03	-0.81	-0.63	0.21
	CO838	Continuous member	15.58	0	0.77	-0.56	0.21
56	CO838	Connected member	1.59	0.03	0.02	0.07	0
	CO839	Main member	-3.79	-0.03	-0.83	-0.74	0.21
	CO839	Continuous member	-3.86	0	0.75	-0.59	0.2
56	CO839	Connected member	1.58	0.02	0.08	0.15	0
	CO840	Main member	24.16	-0.01	-0.77	-0.52	1.13
	CO840	Continuous member	24.16	0.01	0.77	-0.52	1.13
56	CO840	Connected member	1.53	0.02	0	0	-0.03
	CO841	Main member	9.9	0	-0.74	-0.54	1.11
	CO841	Continuous member	9.9	0	0.74	-0.54	1.11
56	CO841	Connected member	1.48	0.01	0	0	-0.03
	CO842	Main member	9.6	0	-0.74	-0.54	1.12
	CO842	Continuous member	9.6	0	0.74	-0.54	1.12
56	CO842	Connected member	1.48	0.01	0	0	-0.03
	CO843	Main member	-8.55	0	-0.72	-0.59	1.12
	CO843	Continuous member	-8.55	0	0.72	-0.59	1.12
56	CO843	Connected member	1.44	0	0	0	-0.03
	CO844	Main member	1.93	-0.01	-0.7	-0.52	1.03
	CO844	Continuous member	1.93	0.01	0.7	-0.52	1.03
56	CO844	Connected member	1.41	0.02	0	0	-0.02
	CO845	Main member	6.53	-0.03	-0.76	-0.57	0.21
	CO845	Continuous member	6.62	0	0.82	-0.68	0.21
56	CO845	Connected member	1.58	0.03	-0.09	-0.11	0
	CO846	Main member	5.92	-0.03	-0.88	-0.8	0.21
	CO846	Continuous member	5.73	0	0.71	-0.47	0.21
56	CO846	Connected member	1.58	0.03	0.19	0.32	0
	CO847	Main member	17.62	-0.03	-0.81	-0.62	0.21
	CO847	Continuous member	17.6	0	0.77	-0.55	0.21
56	CO847	Connected member	1.59	0.03	0.02	0.07	0
	CO848	Main member	-1.77	-0.03	-0.83	-0.74	0.21
	CO848	Continuous member	-1.85	0	0.75	-0.59	0.2
56	CO848	Connected member	1.58	0.03	0.08	0.15	0
	CO849	Main member	26.18	-0.01	-0.77	-0.52	1.13
	CO849	Continuous member	26.18	0.01	0.77	-0.52	1.13
56	CO849	Connected member	1.53	0.02	0	0	-0.03
	CO850	Main member	11.92	0	-0.74	-0.53	1.1
	CO850	Continuous member	11.92	0	0.74	-0.53	1.1
56	CO850	Connected member	1.48	0.01	0	0	-0.03
	CO851	Main member	11.62	0	-0.74	-0.53	1.12
	CO851	Continuous member	11.62	0	0.74	-0.53	1.12
56	CO851	Connected member	1.48	0.01	0	0	-0.03
	CO852	Main member	-6.53	0	-0.72	-0.58	1.12
	CO852	Continuous member	-6.53	0	0.72	-0.58	1.12
56	CO852	Connected member	1.45	0	0	0	-0.03
	CO853	Main member	3.94	-0.01	-0.7	-0.51	1.03
	CO853	Continuous member	3.94	0.01	0.7	-0.51	1.03
56	CO853	Connected member	1.41	0.02	0	0	-0.02
	CO854	Main member	8.55	-0.03	-0.76	-0.56	0.21
	CO854	Continuous member	8.64	0	0.82	-0.67	0.21
56	CO854	Connected member	1.58	0.03	-0.09	-0.11	0
	CO855	Main member	7.94	-0.03	-0.88	-0.79	0.21
	CO855	Continuous member	7.75	0	0.71	-0.47	0.21
56	CO855	Connected member	1.59	0.03	0.19	0.33	0
	CO856	Main member	9.18	-0.03	-0.81	-0.66	0.21
	CO856	Continuous member	9.16	0	0.77	-0.59	0.21
56	CO856	Connected member	1.59	0.03	0.02	0.07	0
	CO857	Main member	-10.2	-0.03	-0.83	-0.77	0.21
	CO857	Continuous member	-10.28	0	0.75	-0.62	0.21
56	CO857	Connected member	1.58	0.02	0.08	0.15	0
	CO858	Main member	17.75	-0.01	-0.77	-0.55	1.14
	CO858	Continuous member	17.75	0.01	0.77	-0.55	1.14
56	CO858	Connected member	1.54	0.01	0	0	-0.03
	CO859	Main member	3.49	0	-0.74	-0.57	1.11
	CO859	Continuous member	3.49	0	0.74	-0.57	1.11
56	CO859	Connected member	1.48	0	0	0	-0.03
	CO860	Main member	3.19	0	-0.74	-0.57	1.12
	CO860	Continuous member	3.19	0	0.74	-0.57	1.12
56	CO860	Connected member	1.48	0	0	0	-0.03
	CO861	Main member	-14.96	0	-0.72	-0.61	1.13
	CO861	Continuous member	-14.96	0	0.72	-0.61	1.13
56	CO861	Connected member	1.45	-0.01	0	0	-0.03
	CO862	Main member	-4.48	-0.01	-0.7	-0.54	1.04
	CO862	Continuous member	-4.48	0.01	0.7	-0.54	1.04
56	CO862	Connected member	1.41	0.02	0	0	-0.02
	CO863	Main member	0.11	-0.03	-0.76	-0.6	0.21
	CO863	Continuous member	0.2	0	0.82	-0.7	0.21
56	CO863	Connected member	1.58	0.03	-0.09	-0.11	0
	CO864	Main member	-0.5	-0.03	-0.88	-0.82	0.21
	CO864	Continuous member	-0.68	0	0.71	-0.5	0.21
56	CO864	Connected member	1.59	0.03	0.19	0.32	0
	CO865	Main member	18.97	-0.03	-0.81	-0.62	0.21
	CO865	Continuous member	18.95	0	0.77	-0.55	0.21
56	CO865	Connected member	1.59	0.03	0.02	0.07	0
	CO866	Main member	-0.42	-0.03	-0.83	-0.73	0.21
	CO866	Continuous member	-0.5	0	0.75	-0.58	0.2
56	CO866	Connected member	1.58	0.03	0.08	0.15	0



::LAV/team::

Page: 31/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO867	Main member	27.53	-0.01	-0.77	-0.51	1.13
	CO867	Continuous member	27.53	0.01	0.77	-0.51	1.13
	CO867	Connected member	1.54	0.02	0	0	-0.03
56	CO868	Main member	13.26	0	-0.74	-0.53	1.1
	CO868	Continuous member	13.26	0	0.74	-0.53	1.1
	CO868	Connected member	1.48	0.01	0	0	-0.03
56	CO869	Main member	12.96	0	-0.74	-0.53	1.12
	CO869	Continuous member	12.96	0	0.74	-0.53	1.12
	CO869	Connected member	1.48	0.01	0	0	-0.03
56	CO870	Main member	-5.19	0	-0.72	-0.58	1.12
	CO870	Continuous member	-5.19	0	0.72	-0.58	1.12
	CO870	Connected member	1.45	0	0	0	-0.03
56	CO871	Main member	5.29	-0.01	-0.7	-0.51	1.03
	CO871	Continuous member	5.29	0.01	0.7	-0.51	1.03
	CO871	Connected member	1.41	0.02	0	0	-0.02
56	CO872	Main member	9.9	-0.03	-0.76	-0.56	0.21
	CO872	Continuous member	9.99	0	0.82	-0.67	0.21
	CO872	Connected member	1.58	0.03	-0.09	-0.11	0
56	CO873	Main member	9.29	-0.03	-0.88	-0.79	0.21
	CO873	Continuous member	9.1	0	0.71	-0.46	0.21
	CO873	Connected member	1.59	0.03	0.19	0.33	0
56	CO874	Main member	18.14	-0.03	-0.82	-0.64	0.21
	CO874	Continuous member	18.09	0	0.77	-0.53	0.21
	CO874	Connected member	1.59	0.03	0.05	0.1	0
56	CO875	Main member	-1.26	-0.03	-0.84	-0.75	0.21
	CO875	Continuous member	-1.35	0	0.74	-0.57	0.2
	CO875	Connected member	1.58	0.03	0.1	0.18	0
56	CO876	Main member	26.7	-0.01	-0.77	-0.53	1.13
	CO876	Continuous member	26.68	0.01	0.76	-0.5	1.13
	CO876	Connected member	1.53	0.02	0.02	0.03	-0.03
56	CO877	Main member	12.43	0	-0.75	-0.55	1.1
	CO877	Continuous member	12.41	0	0.73	-0.52	1.1
	CO877	Connected member	1.48	0.01	0.02	0.03	-0.03
56	CO878	Main member	12.13	0	-0.75	-0.55	1.12
	CO878	Continuous member	12.11	0	0.73	-0.51	1.12
	CO878	Connected member	1.48	0.01	0.02	0.03	-0.03
56	CO879	Main member	-6.02	0	-0.73	-0.59	1.12
	CO879	Continuous member	-6.04	0	0.72	-0.56	1.12
	CO879	Connected member	1.45	0	0.02	0.03	-0.03
56	CO880	Main member	4.46	-0.01	-0.71	-0.52	1.03
	CO880	Continuous member	4.44	0.01	0.7	-0.49	1.03
	CO880	Connected member	1.41	0.02	0.02	0.03	-0.02
56	CO881	Main member	9.07	-0.03	-0.77	-0.58	0.21
	CO881	Continuous member	9.13	0	0.81	-0.65	0.21
	CO881	Connected member	1.58	0.03	-0.07	-0.07	0
56	CO882	Main member	8.46	-0.03	-0.89	-0.8	0.21
	CO882	Continuous member	8.24	0	0.7	-0.45	0.21
	CO882	Connected member	1.59	0.03	0.21	0.36	0
56	CO883	Main member	20.99	-0.03	-0.82	-0.61	0.21
	CO883	Continuous member	20.97	0	0.77	-0.54	0.21
	CO883	Connected member	1.59	0.03	0.02	0.07	0
56	CO884	Main member	1.59	-0.03	-0.83	-0.73	0.21
	CO884	Continuous member	1.52	0	0.75	-0.58	0.2
	CO884	Connected member	1.58	0.03	0.08	0.15	0
56	CO885	Main member	29.55	-0.01	-0.77	-0.51	1.13
	CO885	Continuous member	29.55	0.01	0.77	-0.51	1.13
	CO885	Connected member	1.54	0.02	0	0	-0.03
56	CO886	Main member	15.28	-0.01	-0.74	-0.52	1.1
	CO886	Continuous member	15.28	0.01	0.74	-0.52	1.1
	CO886	Connected member	1.48	0.01	0	0	-0.03
56	CO887	Main member	14.98	-0.01	-0.74	-0.52	1.12
	CO887	Continuous member	14.98	0.01	0.74	-0.52	1.12
	CO887	Connected member	1.48	0.01	0	0	-0.03
56	CO888	Main member	-3.17	0	-0.72	-0.57	1.12
	CO888	Continuous member	-3.17	0	0.72	-0.57	1.12
	CO888	Connected member	1.45	0	0	0	-0.03
56	CO889	Main member	7.31	-0.01	-0.71	-0.5	1.03
	CO889	Continuous member	7.31	0.01	0.71	-0.5	1.03
	CO889	Connected member	1.41	0.02	0	0	-0.02
56	CO890	Main member	11.92	-0.03	-0.77	-0.55	0.21
	CO890	Continuous member	12.01	0	0.82	-0.66	0.21
	CO890	Connected member	1.58	0.03	-0.09	-0.11	0
56	CO891	Main member	11.31	-0.03	-0.88	-0.78	0.21
	CO891	Continuous member	11.12	0	0.71	-0.45	0.21
	CO891	Connected member	1.59	0.03	0.19	0.33	0
56	CO892	Main member	20.16	-0.03	-0.82	-0.63	0.21
	CO892	Continuous member	20.11	0	0.77	-0.53	0.21
	CO892	Connected member	1.59	0.03	0.05	0.1	0
56	CO893	Main member	0.76	-0.03	-0.84	-0.74	0.21
	CO893	Continuous member	0.67	0	0.75	-0.56	0.2
	CO893	Connected member	1.58	0.03	0.1	0.18	0
56	CO894	Main member	28.72	-0.01	-0.78	-0.53	1.13
	CO894	Continuous member	28.7	0.01	0.76	-0.49	1.13
	CO894	Connected member	1.54	0.02	0.02	0.03	-0.03
56	CO895	Main member	14.45	-0.01	-0.75	-0.54	1.1
	CO895	Continuous member	14.43	0	0.73	-0.51	1.1
	CO895	Connected member	1.48	0.01	0.02	0.03	-0.03
56	CO896	Main member	14.15	-0.01	-0.75	-0.54	1.12
	CO896	Continuous member	14.13	0.01	0.73	-0.51	1.12
	CO896	Connected member	1.48	0.01	0.02	0.03	-0.03
56	CO897	Main member	-4	0	-0.73	-0.59	1.12
	CO897	Continuous member	-4.02	0	0.72	-0.56	1.12
	CO897	Connected member	1.45	0	0.02	0.03	-0.03
56	CO898	Main member	6.48	-0.01	-0.71	-0.52	1.03



::LAVteam::

Page: 32/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
56	CO898	Continuous member	6.45	0.01	0.7	-0.49	1.03
	CO898	Connected member	1.41	0.02	0.02	0.03	-0.02
	CO899	Main member	11.08	-0.03	-0.77	-0.57	0.21
56	CO899	Continuous member	11.15	0	0.81	-0.65	0.21
	CO899	Connected member	1.58	0.03	-0.07	-0.07	0
	CO900	Main member	10.47	-0.03	-0.89	-0.8	0.21
56	CO900	Continuous member	10.26	0	0.7	-0.44	0.21
	CO900	Connected member	1.59	0.03	0.21	0.36	0
	CO901	Main member	12.55	-0.03	-0.82	-0.65	0.21
56	CO901	Continuous member	12.53	0	0.78	-0.58	0.21
	CO901	Connected member	1.59	0.03	0.02	0.07	0
	CO902	Main member	-6.84	-0.03	-0.83	-0.76	0.21
56	CO902	Continuous member	-6.92	0	0.75	-0.61	0.21
	CO902	Connected member	1.58	0.02	0.08	0.15	0
	CO903	Main member	21.11	-0.01	-0.77	-0.54	1.13
56	CO903	Continuous member	21.11	0.01	0.77	-0.54	1.13
	CO903	Connected member	1.54	0.02	0	0	-0.03
	CO904	Main member	6.85	0	-0.74	-0.56	1.11
56	CO904	Continuous member	6.85	0	0.74	-0.56	1.11
	CO904	Connected member	1.49	0.01	0	0	-0.03
	CO905	Main member	6.55	0	-0.74	-0.56	1.12
56	CO905	Continuous member	6.55	0	0.74	-0.56	1.12
	CO905	Connected member	1.48	0.01	0	0	-0.03
	CO906	Main member	-11.6	0	-0.72	-0.6	1.12
56	CO906	Continuous member	-11.6	0	0.72	-0.6	1.12
	CO906	Connected member	1.45	-0.01	0	0	-0.03
	CO907	Main member	-1.12	-0.01	-0.71	-0.53	1.03
56	CO907	Continuous member	-1.12	0.01	0.71	-0.53	1.03
	CO907	Connected member	1.41	0.02	0	0	-0.02
	CO908	Main member	3.48	-0.03	-0.77	-0.59	0.21
56	CO908	Continuous member	3.57	0	0.82	-0.69	0.21
	CO908	Connected member	1.58	0.03	-0.09	-0.11	0
	CO909	Main member	2.87	-0.03	-0.88	-0.81	0.21
56	CO909	Continuous member	2.68	0	0.71	-0.49	0.21
	CO909	Connected member	1.59	0.03	0.19	0.32	0
	CO910	Main member	11.72	-0.03	-0.82	-0.67	0.21
56	CO910	Continuous member	11.67	0	0.77	-0.56	0.21
	CO910	Connected member	1.59	0.03	0.05	0.1	0
	CO911	Main member	-7.67	-0.03	-0.84	-0.78	0.21
56	CO911	Continuous member	-7.77	0	0.75	-0.6	0.21
	CO911	Connected member	1.58	0.02	0.1	0.18	0
	CO912	Main member	20.28	-0.01	-0.78	-0.56	1.13
56	CO912	Continuous member	20.26	0.01	0.76	-0.53	1.13
	CO912	Connected member	1.54	0.02	0.02	0.03	-0.03
	CO913	Main member	6.02	0	-0.75	-0.58	1.11
56	CO913	Continuous member	6	0	0.73	-0.54	1.11
	CO913	Connected member	1.49	0	0.02	0.03	-0.03
	CO914	Main member	5.72	0	-0.75	-0.57	1.12
56	CO914	Continuous member	5.7	0	0.73	-0.54	1.12
	CO914	Connected member	1.48	0.01	0.02	0.03	-0.03
	CO915	Main member	-12.43	0	-0.73	-0.62	1.12
56	CO915	Continuous member	-12.45	0	0.72	-0.59	1.12
	CO915	Connected member	1.45	-0.01	0.02	0.03	-0.03
	CO916	Main member	-1.95	-0.01	-0.71	-0.55	1.03
56	CO916	Continuous member	-1.97	0.01	0.7	-0.52	1.03
	CO916	Connected member	1.41	0.02	0.02	0.03	-0.02
	CO917	Main member	2.65	-0.03	-0.77	-0.61	0.21
56	CO917	Continuous member	2.72	0	0.81	-0.68	0.21
	CO917	Connected member	1.58	0.03	-0.07	-0.07	0
	CO918	Main member	2.04	-0.03	-0.89	-0.83	0.21
56	CO918	Continuous member	1.83	0	0.7	-0.48	0.21
	CO918	Connected member	1.59	0.03	0.21	0.36	0
	CO919	Main member	10.53	-0.03	-0.82	-0.65	0.21
56	CO919	Continuous member	10.51	0	0.78	-0.58	0.21
	CO919	Connected member	1.59	0.03	0.02	0.07	0
	CO920	Main member	-8.86	-0.03	-0.83	-0.77	0.21
56	CO920	Continuous member	-8.93	0	0.75	-0.62	0.21
	CO920	Connected member	1.58	0.02	0.08	0.15	0
	CO921	Main member	19.09	-0.01	-0.77	-0.55	1.14
56	CO921	Continuous member	19.09	0.01	0.77	-0.55	1.14
	CO921	Connected member	1.54	0.01	0	0	-0.03
	CO922	Main member	4.83	0	-0.74	-0.56	1.11
56	CO922	Continuous member	4.83	0	0.74	-0.56	1.11
	CO922	Connected member	1.48	0	0	0	-0.03
	CO923	Main member	4.53	0	-0.74	-0.56	1.12
56	CO923	Continuous member	4.53	0	0.74	-0.56	1.12
	CO923	Connected member	1.48	0	0	0	-0.03
	CO924	Main member	-13.61	0	-0.72	-0.61	1.12
56	CO924	Continuous member	-13.61	0	0.72	-0.61	1.12
	CO924	Connected member	1.45	-0.01	0	0	-0.03
	CO925	Main member	-3.14	-0.01	-0.71	-0.54	1.03
56	CO925	Continuous member	-3.14	0.01	0.71	-0.54	1.03
	CO925	Connected member	1.41	0.02	0	0	-0.02
	CO926	Main member	1.46	-0.03	-0.77	-0.59	0.21
56	CO926	Continuous member	1.55	0	0.82	-0.7	0.21
	CO926	Connected member	1.58	0.03	-0.09	-0.11	0
	CO927	Main member	0.85	-0.03	-0.88	-0.82	0.21
56	CO927	Continuous member	0.66	0	0.71	-0.5	0.21
	CO927	Connected member	1.59	0.03	0.19	0.32	0
	CO928	Main member	9.7	-0.03	-0.82	-0.67	0.21
56	CO928	Continuous member	9.65	0	0.77	-0.57	0.21
	CO928	Connected member	1.59	0.03	0.05	0.1	0
	CO929	Main member	-9.69	-0.03	-0.84	-0.79	0.21
56	CO929	Continuous member	-9.79	0	0.74	-0.6	0.21



::LAV/team::

Page: 33/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V_y [kN]	Shear force V_z [kN]	Moment M_y [kNm]	Moment M_z [kNm]
56	CO929	Connected member	1.58	0.02	0.1	0.18	0
	CO930	Main member	18.26	-0.01	-0.78	-0.57	1.14
	CO930	Continuous member	18.24	0.01	0.76	-0.54	1.14
56	CO930	Connected member	1.54	0.01	0.02	0.03	-0.03
	CO931	Main member	4	0	-0.75	-0.58	1.11
	CO931	Continuous member	3.98	0	0.73	-0.55	1.11
56	CO931	Connected member	1.48	0	0.02	0.03	-0.03
	CO932	Main member	3.7	0	-0.75	-0.58	1.12
	CO932	Continuous member	3.68	0	0.73	-0.55	1.12
56	CO932	Connected member	1.48	0	0.02	0.03	-0.03
	CO933	Main member	-14.44	0	-0.73	-0.63	1.12
	CO933	Continuous member	-14.46	0	0.72	-0.6	1.12
56	CO933	Connected member	1.45	-0.01	0.02	0.03	-0.03
	CO934	Main member	-3.96	-0.01	-0.71	-0.56	1.03
	CO934	Continuous member	-3.99	0.01	0.7	-0.53	1.03
56	CO934	Connected member	1.41	0.02	0.02	0.03	-0.02
	CO935	Main member	0.63	-0.03	-0.77	-0.61	0.21
	CO935	Continuous member	0.7	0	0.81	-0.69	0.21
56	CO935	Connected member	1.58	0.03	-0.07	-0.07	0
	CO936	Main member	0.02	-0.03	-0.89	-0.84	0.21
	CO936	Continuous member	-0.19	0	0.7	-0.48	0.21
56	CO936	Connected member	1.59	0.03	0.21	0.36	0
	CO937	Main member	9.75	0	-0.78	-0.6	0.01
	CO937	Continuous member	9.75	0	0.78	-0.6	0.01
56	CO937	Connected member	1.56	0	0	0	0
	CO938	Main member	18.18	0	-0.78	-0.57	0.01
	CO938	Continuous member	18.18	0	0.78	-0.57	0.01
56	CO938	Connected member	1.56	0	0	0	0
	CO939	Main member	20.2	0	-0.78	-0.56	0.01
	CO939	Continuous member	20.2	0	0.78	-0.56	0.01
56	CO939	Connected member	1.56	0	0	0	0
	CO940	Main member	11.77	0	-0.78	-0.59	0.01
	CO940	Continuous member	11.77	0	0.78	-0.59	0.01
56	CO940	Connected member	1.56	0	0	0	0
	CO941	Main member	11.09	0	-0.78	-0.6	0.01
	CO941	Continuous member	11.09	0	0.78	-0.6	0.01
56	CO941	Connected member	1.56	0	0	0	0
	CO942	Main member	10.76	0	-0.78	-0.6	0.01
	CO942	Continuous member	10.75	0	0.78	-0.59	0.01
56	CO942	Connected member	1.56	0	0.01	0.01	0
	CO943	Main member	19.53	0	-0.78	-0.56	0.01
	CO943	Continuous member	19.53	0	0.78	-0.56	0.01
56	CO943	Connected member	1.56	0	0	0	0
	CO944	Main member	19.2	0	-0.78	-0.57	0.01
	CO944	Continuous member	19.19	0	0.78	-0.56	0.01
56	CO944	Connected member	1.56	0	0.01	0.01	0
	CO945	Main member	21.55	0	-0.78	-0.55	0.01
	CO945	Continuous member	21.55	0	0.78	-0.55	0.01
56	CO945	Connected member	1.56	0	0	0	0
	CO946	Main member	21.22	0	-0.78	-0.56	0.01
	CO946	Continuous member	21.21	0	0.78	-0.55	0.01
56	CO946	Connected member	1.56	0	0.01	0.01	0
	CO947	Main member	13.11	0	-0.78	-0.59	0.01
	CO947	Continuous member	13.11	0	0.78	-0.59	0.01
56	CO947	Connected member	1.56	0	0	0	0
	CO948	Main member	12.78	0	-0.78	-0.6	0.01
	CO948	Continuous member	12.77	0	0.78	-0.58	0.01
56	CO948	Connected member	1.56	0	0.01	0.01	0
	CO949	Main member	9.23	-0.01	-0.79	-0.61	0.05
	CO949	Continuous member	9.22	0	0.78	-0.6	0.05
56	CO949	Connected member	1.57	0.01	0	0.01	0
	CO950	Main member	5.35	-0.01	-0.79	-0.64	0.05
	CO950	Continuous member	5.33	0	0.77	-0.61	0.05
56	CO950	Connected member	1.56	0.01	0.02	0.03	0
	CO951	Main member	10.94	0	-0.78	-0.59	0.24
	CO951	Continuous member	10.94	0	0.78	-0.59	0.24
56	CO951	Connected member	1.56	0	0	0	-0.01
	CO952	Main member	8.09	0	-0.77	-0.6	0.23
	CO952	Continuous member	8.09	0	0.77	-0.6	0.23
56	CO952	Connected member	1.54	0	0	0	-0.01
	CO953	Main member	8.03	0	-0.77	-0.6	0.24
	CO953	Continuous member	8.03	0	0.77	-0.6	0.24
56	CO953	Connected member	1.54	0	0	0	-0.01
	CO954	Main member	4.4	0	-0.77	-0.6	0.23
	CO954	Continuous member	4.4	0	0.77	-0.6	0.23
56	CO954	Connected member	1.54	0	0	0	-0.01
	CO955	Main member	6.5	0	-0.76	-0.59	0.22
	CO955	Continuous member	6.5	0	0.76	-0.59	0.22
56	CO955	Connected member	1.53	0.01	0	0	0
	CO956	Main member	7.41	-0.01	-0.78	-0.6	0.05
	CO956	Continuous member	7.43	0	0.79	-0.62	0.05
56	CO956	Connected member	1.56	0.01	-0.02	-0.02	0
	CO957	Main member	7.29	-0.01	-0.8	-0.65	0.05
	CO957	Continuous member	7.26	0	0.77	-0.58	0.05
56	CO957	Connected member	1.57	0.01	0.04	0.06	0
	CO958	Main member	17.67	-0.01	-0.79	-0.58	0.05
	CO958	Continuous member	17.66	0	0.78	-0.56	0.05
56	CO958	Connected member	1.56	0.01	0	0.01	0
	CO959	Main member	13.79	-0.01	-0.79	-0.6	0.05
	CO959	Continuous member	13.77	0	0.77	-0.57	0.05
56	CO959	Connected member	1.56	0.01	0.02	0.03	0
	CO960	Main member	19.38	0	-0.78	-0.56	0.24
	CO960	Continuous member	19.38	0	0.78	-0.56	0.24
56	CO960	Connected member	1.55	0	0	0	-0.01



::LAV/team::

Page: 34/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V_y [kN]	Shear force V_z [kN]	Moment M_y [kNm]	Moment M_z [kNm]
56	CO961	Main member	16.53	0	-0.77	-0.56	0.23
	CO961	Continuous member	16.53	0	0.77	-0.56	0.23
	CO961	Connected member	1.54	0	0	0	-0.01
56	CO962	Main member	16.47	0	-0.77	-0.56	0.24
	CO962	Continuous member	16.47	0	0.77	-0.56	0.24
	CO962	Connected member	1.54	0	0	0	-0.01
56	CO963	Main member	12.83	0	-0.77	-0.57	0.23
	CO963	Continuous member	12.83	0	0.77	-0.57	0.23
	CO963	Connected member	1.54	0	0	0	-0.01
56	CO964	Main member	14.93	0	-0.76	-0.56	0.22
	CO964	Continuous member	14.93	0	0.76	-0.56	0.22
	CO964	Connected member	1.53	0.01	0	0	0
56	CO965	Main member	15.85	-0.01	-0.78	-0.57	0.05
	CO965	Continuous member	15.87	0	0.79	-0.59	0.05
	CO965	Connected member	1.56	0.01	-0.02	-0.02	0
56	CO966	Main member	15.73	-0.01	-0.8	-0.61	0.05
	CO966	Continuous member	15.69	0	0.76	-0.55	0.05
	CO966	Connected member	1.56	0.01	0.04	0.07	0
56	CO967	Main member	19.69	-0.01	-0.79	-0.57	0.05
	CO967	Continuous member	19.68	0	0.78	-0.56	0.05
	CO967	Connected member	1.57	0.01	0	0.01	0
56	CO968	Main member	15.81	-0.01	-0.79	-0.59	0.05
	CO968	Continuous member	15.79	0	0.77	-0.56	0.05
	CO968	Connected member	1.56	0.01	0.02	0.03	0
56	CO969	Main member	21.4	0	-0.78	-0.55	0.24
	CO969	Continuous member	21.4	0	0.78	-0.55	0.24
	CO969	Connected member	1.56	0	0	0	-0.01
56	CO970	Main member	18.55	0	-0.77	-0.55	0.23
	CO970	Continuous member	18.55	0	0.77	-0.55	0.23
	CO970	Connected member	1.54	0	0	0	-0.01
56	CO971	Main member	18.49	0	-0.77	-0.55	0.24
	CO971	Continuous member	18.49	0	0.77	-0.55	0.24
	CO971	Connected member	1.54	0	0	0	-0.01
56	CO972	Main member	14.85	0	-0.77	-0.56	0.23
	CO972	Continuous member	14.85	0	0.77	-0.56	0.23
	CO972	Connected member	1.54	0	0	0	-0.01
56	CO973	Main member	16.95	0	-0.76	-0.55	0.22
	CO973	Continuous member	16.95	0	0.76	-0.55	0.22
	CO973	Connected member	1.53	0.01	0	0	0
56	CO974	Main member	17.87	-0.01	-0.78	-0.56	0.05
	CO974	Continuous member	17.89	0	0.79	-0.58	0.05
	CO974	Connected member	1.56	0.01	-0.02	-0.02	0
56	CO975	Main member	17.75	-0.01	-0.8	-0.61	0.05
	CO975	Continuous member	17.71	0	0.77	-0.54	0.05
	CO975	Connected member	1.57	0.01	0.04	0.07	0
56	CO976	Main member	11.25	-0.01	-0.79	-0.61	0.05
	CO976	Continuous member	11.24	0	0.78	-0.59	0.05
	CO976	Connected member	1.57	0.01	0	0.01	0
56	CO977	Main member	7.37	-0.01	-0.79	-0.63	0.05
	CO977	Continuous member	7.35	0	0.78	-0.6	0.05
	CO977	Connected member	1.57	0.01	0.02	0.03	0
56	CO978	Main member	12.96	0	-0.78	-0.59	0.24
	CO978	Continuous member	12.96	0	0.78	-0.59	0.24
	CO978	Connected member	1.56	0	0	0	-0.01
56	CO979	Main member	10.11	0	-0.77	-0.59	0.23
	CO979	Continuous member	10.11	0	0.77	-0.59	0.23
	CO979	Connected member	1.55	0	0	0	-0.01
56	CO980	Main member	10.05	0	-0.77	-0.59	0.24
	CO980	Continuous member	10.05	0	0.77	-0.59	0.24
	CO980	Connected member	1.55	0	0	0	-0.01
56	CO981	Main member	6.42	0	-0.77	-0.6	0.23
	CO981	Continuous member	6.42	0	0.77	-0.6	0.23
	CO981	Connected member	1.54	0	0	0	-0.01
56	CO982	Main member	8.51	0	-0.77	-0.58	0.22
	CO982	Continuous member	8.51	0	0.77	-0.58	0.22
	CO982	Connected member	1.53	0.01	0	0	0
56	CO983	Main member	9.43	-0.01	-0.78	-0.6	0.05
	CO983	Continuous member	9.45	0	0.79	-0.62	0.05
	CO983	Connected member	1.57	0.01	-0.02	-0.02	0
56	CO984	Main member	9.31	-0.01	-0.8	-0.64	0.05
	CO984	Continuous member	9.27	0	0.77	-0.58	0.05
	CO984	Connected member	1.57	0.01	0.04	0.06	0

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Basic Geometry of the Joint			
Main member			
Member			
Length	l	4.5	m
Height	h	280	mm
Thickness	t	260	mm
Cross-Sectional Area	A	728	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	132	mm
Thickness	t	10	mm
Cross-Sectional Area	A	13.2	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	3	
Number of bolt rows (z-direction)	n_{dz}	2	



::LAVteam::

Page: 35/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

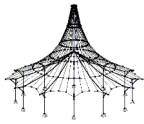
Date: 16/07/2023

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Distance between bolt columns	a_1	60	mm
Distance between bolt rows	a_2	60	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	-60	mm
Distance between fastener and edge No. 1	$a_{4,1}$	110	mm
Distance between fastener and edge No. 2	$a_{4,2}$	110	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	89.82	MN/m
Slip Modulus for ULS	K_u	46.06	MN/m
Polar moment of inertia	I_p	198	cm ²
Rotation Modulus for SLS	C_{ser}	0.3	MNm/rad
Rotation Modulus for ULS	C_u	0.15	MNm/rad
Bolts			
Total number of bolts		6	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	260	mm
Connected Member No. 1			
Member			
Length	l	4.5	m
Height	h	220	mm
Thickness	t	220	mm
Cross-Sectional Area	A	484	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	212	mm
Thickness	t	10	mm
Cross-Sectional Area	A	21.2	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	2	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	60	mm
Distance between bolt rows	a_2	140	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	80	mm
Distance between fastener and edge No. 1	$a_{4,1}$	40	mm
Distance between fastener and edge No. 2	$a_{4,2}$	40	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	59.88	MN/m
Slip Modulus for ULS	K_u	30.71	MN/m
Polar moment of inertia	I_p	232	cm ²
Rotation Modulus for SLS	C_{ser}	0.35	MNm/rad
Rotation Modulus for ULS	C_u	0.18	MNm/rad
Bolts			
Total number of bolts		4	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	220	mm

2.1 SUMMARY

	Governing		Check		Check formula	
	Node	Load Case	Ratio			
Main member	56	CO277	0.01	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6	
	56	CO276	0.17	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5	
	56	CO8	0.06	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4	
	56	CO982	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4	
	56	CO8	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7	
	56	CO7	0.10	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3	
	56	CO984	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)	
	56	CO276	0.08	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10	
	56	CO276	0.05	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment	
	56	CO276	0.08	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment	
	56	CO276	0.03	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4	
	56	CO312	0.02	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4	
	Connected Member No. 1	56	CO276	0.16	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
		56	CO8	0.06	≤ 1	6031) Bolt group - Multiple fastener connection acc. to 8.1.2 and 8.5.1.1.(4)
		56	CO8	0.06	≤ 1	6032) Bolt group - Bolt force component parallel to grain acc. to 8.1.2 and 8.5.1.1(4)
		56	CO982	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
56		CO984	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)	
56		CO276	0.03	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4	
56		CO276	0.03	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10	
56		CO276	0.03	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to m	



::LAV/team::

Page: 36/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

2.1 SUMMARY

	Governing		Check		Check formula
	Node	Load Case	Ratio		
	56	CO276	0.02	≤ 1	moment
	56	CO276	0.02	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment 6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3

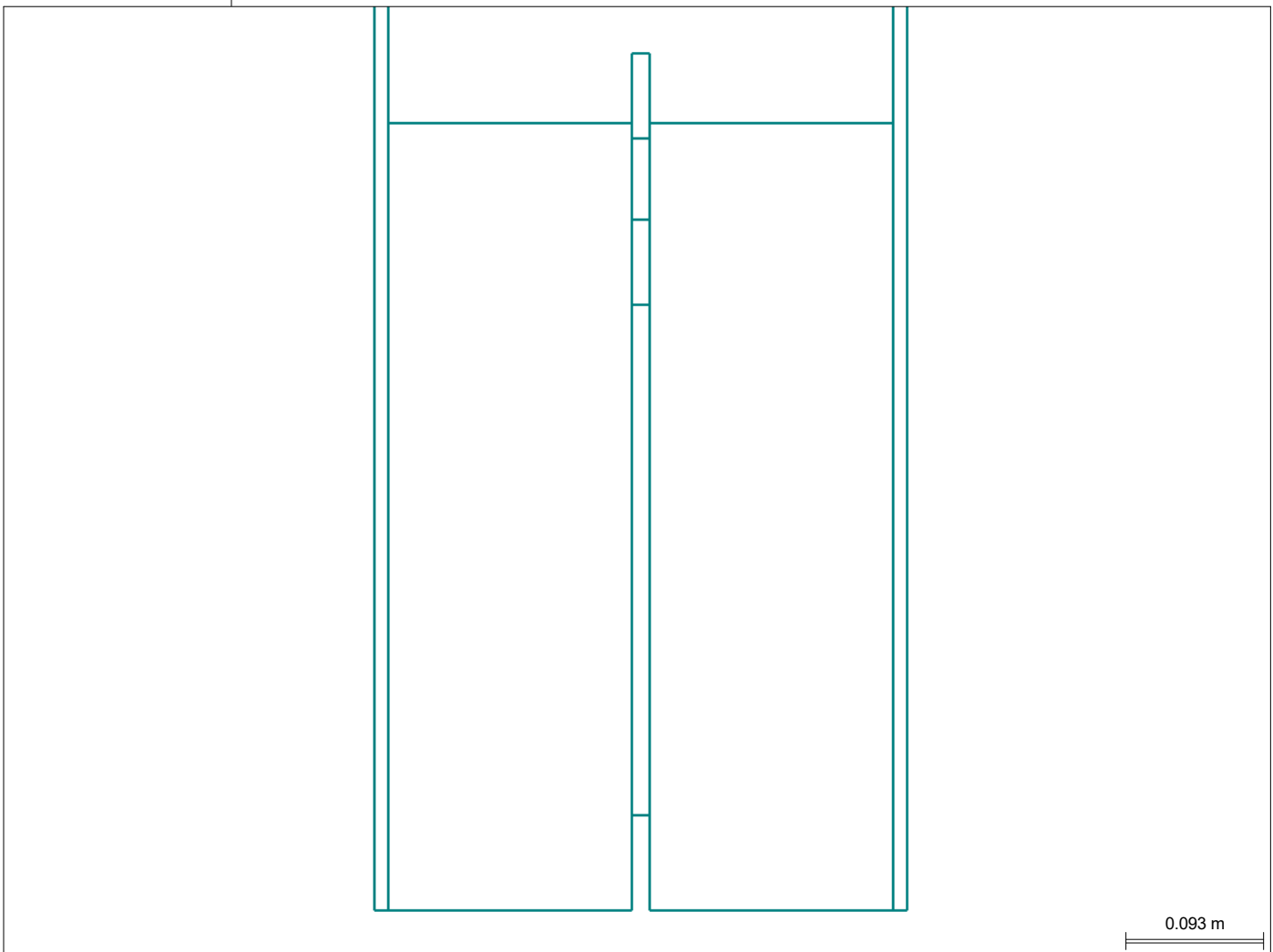
JOINTS
CA2
Design of Joints

1.1 GENERAL DATA

JOINTS CA2

	Settings for		Details
	Design Standard	National Annex	
	Type of connection	Input Data	Comment
	EN 1995-1-1:2004-11	CEN	JOINTS - Steel to timber - Bolts
	Import from model		

VIEW OF CONNECTION



1.2 NODES AND MEMBERS

Node No.	Member		Cross-section	Material	Angle [°]
	No.	Type			
21	12	Main member	T-Rectangle 360/360	Hardwood Timber D70	
	668	Connected member	T-Rectangle 340/300	Glulam Timber GL24h	34.41
	669	Connected member	T-Rectangle 340/300	Glulam Timber GL24h	34.41



::LAV/team::

Page: 37/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	LC1	Main member	-13.73	0.02	-0.07	0.45	0.07
	LC1	Connected member	-2.57	0	-1.07	0	0
	LC1	Connected member	-4.66	0	1.07	0	0
21	CO1	Main member	-18.67	0.03	-0.09	0.62	0.09
	CO1	Connected member	-3.54	0	-1.45	0	0
	CO1	Connected member	-6.44	0	1.45	0	0
21	LC2	Main member	-0.86	0	-0.01	-0.04	-0.03
	LC2	Connected member	0.02	0	0	0	0
	LC2	Connected member	-0.18	0	0	0	0
21	CO2	Main member	-19.92	0.02	-0.11	0.57	0.05
	CO2	Connected member	-3.51	0	-1.45	0	0
	CO2	Connected member	-6.71	0	1.46	0	0
21	LC3	Main member	-0.17	0	0	-0.01	-0.01
	LC3	Connected member	0.01	0	0	0	0
	LC3	Connected member	-0.03	0	0	0	0
21	CO3	Main member	-20.17	0.02	-0.11	0.56	0.04
	CO3	Connected member	-3.5	0	-1.45	0	0
	CO3	Connected member	-6.76	0	1.46	0	0
21	LC4	Main member	-1.12	-0.01	-0.02	-0.07	-0.05
	LC4	Connected member	0.06	0	0	0	0
	LC4	Connected member	-0.23	0	0	0	0
21	CO4	Main member	-18.92	0.03	-0.1	0.61	0.08
	CO4	Connected member	-3.52	0	-1.45	0	0
	CO4	Connected member	-6.49	0	1.45	0	0
21	LC5	Main member	-0.56	0	-0.01	-0.03	-0.02
	LC5	Connected member	0.03	0	0	0	0
	LC5	Connected member	-0.12	0	0	0	0
21	CO5	Main member	-20.51	0.02	-0.13	0.52	0.01
	CO5	Connected member	-3.45	0	-1.45	0	0
	CO5	Connected member	-6.83	0	1.46	0	0
21	LC6	Main member	-16.94	0	5.79	-5.96	-0.25
	LC6	Connected member	12.03	-5.82	0	0	0
	LC6	Connected member	-8.98	5.82	0	0	0
21	CO6	Main member	-21.76	0.01	-0.14	0.47	-0.02
	CO6	Connected member	-3.42	0	-1.45	0	0
	CO6	Connected member	-7.1	0	1.46	0	0
21	LC7	Main member	-25.21	-0.01	5.81	-5.83	-0.25
	LC7	Connected member	10.17	-5.82	0	0	0
	LC7	Connected member	-10.02	5.82	0	0	0
21	CO7	Main member	-22.01	0.01	-0.15	0.45	-0.03
	CO7	Connected member	-3.41	0	-1.45	0	0
	CO7	Connected member	-7.16	0	1.46	0	0
21	LC8	Main member	5.3	1.73	-7.08	7.81	4.87
	LC8	Connected member	-28.44	10.39	0	0	0
	LC8	Connected member	18.56	-6.43	0	0	0
21	CO8	Main member	-20.76	0.02	-0.13	0.5	0
	CO8	Connected member	-3.44	0	-1.45	0	0
	CO8	Connected member	-6.89	0	1.46	0	0
21	LC9	Main member	4.41	1.71	-7.04	7.95	4.93
	LC9	Connected member	-29.69	10.39	0	0	0
	LC9	Connected member	18.56	-6.43	0	0	0
21	CO9	Main member	-22.22	0.01	-0.15	0.44	-0.04
	CO9	Connected member	-3.4	0	-1.45	0	0
	CO9	Connected member	-7.2	0	1.46	0	0
21	CO10	Main member	-23.33	0.01	-0.15	0.46	-0.04
	CO10	Connected member	-3.5	0	-1.45	0	0
	CO10	Connected member	-7.49	0	1.46	0	0
21	CO11	Main member	-22.46	0.01	-0.15	0.42	-0.05
	CO11	Connected member	-3.39	0	-1.45	0	0
	CO11	Connected member	-7.26	0	1.46	0	0
21	CO12	Main member	-23.58	0.01	-0.16	0.45	-0.05
	CO12	Connected member	-3.49	0	-1.45	0	0
	CO12	Connected member	-7.54	0	1.46	0	0
21	LC13	Main member	-2.05	0	-0.02	0	-0.02
	LC13	Connected member	-0.1	0	0	0	0
	LC13	Connected member	-0.48	0	0	0	0
21	CO13	Main member	-21.22	0.01	-0.14	0.48	-0.01
	CO13	Connected member	-3.41	0	-1.45	0	0
	CO13	Connected member	-6.98	0	1.46	0	0
21	LC14	Main member	4.8	1.78	-7.04	7.94	5.11
	LC14	Connected member	-28.83	10.39	0	0	0
	LC14	Connected member	18.56	-6.43	0	0	0
21	CO14	Main member	-22.33	0.01	-0.14	0.5	-0.01
	CO14	Connected member	-3.51	0	-1.45	0	0
	CO14	Connected member	-7.27	0	1.46	0	0
21	LC15	Main member	5.81	1.71	-7.05	8.1	4.98
	LC15	Connected member	-30.32	10.39	0	0	0
	LC15	Connected member	19.03	-6.43	0	0	0
21	CO15	Main member	-37.67	0.01	5.07	-4.82	-0.26
	CO15	Connected member	7.44	-5.22	-1.43	0	0
	CO15	Connected member	-15.46	5.3	1.46	0	0
21	LC16	Main member	-0.34	1.36	-12.27	13.61	3.79
	LC16	Connected member	-15.61	15.42	0	0	0
	LC16	Connected member	12.41	-11.61	0	0	0
21	CO16	Main member	-44.93	-0.01	5.1	-4.77	-0.26
	CO16	Connected member	5.72	-5.22	-1.43	0	0
	CO16	Connected member	-16.37	5.3	1.46	0	0
21	LC17	Main member	-16.74	-0.01	5.83	-6	-0.23
	LC17	Connected member	11.1	-5.82	0	0	0
	LC17	Connected member	-8.16	5.82	0	0	0
21	CO17	Main member	-17.3	1.57	-6.51	7.34	4.28
	CO17	Connected member	-29.38	9.54	-1.48	0	0
	CO17	Connected member	9.91	-5.75	1.43	0	0
21	LC18	Main member	-24.78	0.01	5.77	-5.79	-0.25



::LAV/team::

Page: 38/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	LC18	Connected member	11.38	-5.82	0	0	0
	LC18	Connected member	-10.88	5.82	0	0	0
	CO18	Main member	-17.97	1.55	-6.48	7.51	4.34
21	CO18	Connected member	-30.32	9.55	-1.48	0	0
	CO18	Connected member	9.83	-5.75	1.43	0	0
	CO19	Main member	-17.64	1.61	-6.48	7.48	4.49
21	CO19	Connected member	-29.56	9.54	-1.48	0	0
	CO19	Connected member	9.82	-5.75	1.43	0	0
	CO20	Main member	-16.58	1.55	-6.48	7.68	4.39
21	CO20	Connected member	-30.73	9.55	-1.48	0	0
	CO20	Connected member	10.19	-5.75	1.43	0	0
	CO21	Main member	-22.23	1.22	-11.19	12.6	3.3
21	CO21	Connected member	-17.35	14.05	-1.45	0	0
	CO21	Connected member	4.23	-10.42	1.43	0	0
	CO22	Main member	-37.38	0	5.1	-4.89	-0.25
21	CO22	Connected member	6.58	-5.22	-1.43	0	0
	CO22	Connected member	-14.68	5.29	1.46	0	0
	CO23	Main member	-44.66	0.01	5.06	-4.7	-0.26
21	CO23	Connected member	6.83	-5.22	-1.43	0	0
	CO23	Connected member	-17.2	5.3	1.47	0	0
	CO24	Main member	-38.78	0.01	5.06	-4.8	-0.26
21	CO24	Connected member	7.34	-5.22	-1.43	0	0
	CO24	Connected member	-15.74	5.3	1.46	0	0
	CO25	Main member	-46.04	0	5.1	-4.75	-0.26
21	CO25	Connected member	5.62	-5.22	-1.43	0	0
	CO25	Connected member	-16.65	5.3	1.46	0	0
	CO26	Main member	-18.42	1.57	-6.51	7.37	4.28
21	CO26	Connected member	-29.47	9.54	-1.48	0	0
	CO26	Connected member	9.62	-5.75	1.43	0	0
	CO27	Main member	-19.08	1.55	-6.48	7.53	4.34
21	CO27	Connected member	-30.41	9.55	-1.48	0	0
	CO27	Connected member	9.54	-5.75	1.43	0	0
	CO28	Main member	-18.75	1.61	-6.48	7.51	4.49
21	CO28	Connected member	-29.65	9.54	-1.48	0	0
	CO28	Connected member	9.54	-5.75	1.43	0	0
	CO29	Main member	-17.69	1.55	-6.49	7.71	4.39
21	CO29	Connected member	-30.82	9.55	-1.48	0	0
	CO29	Connected member	9.91	-5.75	1.43	0	0
	CO30	Main member	-23.34	1.22	-11.19	12.63	3.3
21	CO30	Connected member	-17.44	14.05	-1.45	0	0
	CO30	Connected member	3.94	-10.43	1.43	0	0
	CO31	Main member	-38.49	0	5.1	-4.87	-0.25
21	CO31	Connected member	6.48	-5.22	-1.43	0	0
	CO31	Connected member	-14.96	5.29	1.46	0	0
	CO32	Main member	-45.77	0.01	5.05	-4.68	-0.26
21	CO32	Connected member	6.73	-5.22	-1.43	0	0
	CO32	Connected member	-17.48	5.3	1.47	0	0
	CO33	Main member	-37.92	0.01	5.06	-4.83	-0.27
21	CO33	Connected member	7.46	-5.22	-1.43	0	0
	CO33	Connected member	-15.51	5.3	1.46	0	0
	CO34	Main member	-45.19	-0.01	5.09	-4.77	-0.27
21	CO34	Connected member	5.73	-5.22	-1.43	0	0
	CO34	Connected member	-16.43	5.3	1.46	0	0
	CO35	Main member	-17.55	1.57	-6.51	7.32	4.26
21	CO35	Connected member	-29.39	9.54	-1.48	0	0
	CO35	Connected member	9.88	-5.75	1.43	0	0
	CO36	Main member	-18.21	1.55	-6.48	7.49	4.33
21	CO36	Connected member	-30.34	9.55	-1.48	0	0
	CO36	Connected member	9.8	-5.75	1.43	0	0
	CO37	Main member	-17.88	1.61	-6.48	7.46	4.48
21	CO37	Connected member	-29.57	9.54	-1.48	0	0
	CO37	Connected member	9.79	-5.75	1.43	0	0
	CO38	Main member	-16.82	1.54	-6.49	7.66	4.38
21	CO38	Connected member	-30.75	9.55	-1.48	0	0
	CO38	Connected member	10.16	-5.75	1.43	0	0
	CO39	Main member	-22.47	1.22	-11.19	12.57	3.29
21	CO39	Connected member	-17.35	14.05	-1.45	0	0
	CO39	Connected member	4.19	-10.43	1.43	0	0
	CO40	Main member	-37.63	0	5.1	-4.9	-0.25
21	CO40	Connected member	6.6	-5.22	-1.43	0	0
	CO40	Connected member	-14.73	5.29	1.46	0	0
	CO41	Main member	-44.92	0.01	5.05	-4.7	-0.27
21	CO41	Connected member	6.85	-5.22	-1.43	0	0
	CO41	Connected member	-17.26	5.3	1.47	0	0
	CO42	Main member	-39.04	0.01	5.06	-4.81	-0.27
21	CO42	Connected member	7.36	-5.22	-1.43	0	0
	CO42	Connected member	-15.79	5.3	1.46	0	0
	CO43	Main member	-46.29	-0.01	5.09	-4.75	-0.27
21	CO43	Connected member	5.63	-5.22	-1.43	0	0
	CO43	Connected member	-16.71	5.3	1.47	0	0
	CO44	Main member	-18.66	1.57	-6.52	7.35	4.27
21	CO44	Connected member	-29.48	9.54	-1.48	0	0
	CO44	Connected member	9.59	-5.75	1.43	0	0
	CO45	Main member	-19.33	1.55	-6.48	7.51	4.33
21	CO45	Connected member	-30.43	9.55	-1.48	0	0
	CO45	Connected member	9.51	-5.75	1.43	0	0
	CO46	Main member	-18.99	1.61	-6.48	7.49	4.48
21	CO46	Connected member	-29.66	9.54	-1.48	0	0
	CO46	Connected member	9.5	-5.75	1.43	0	0
	CO47	Main member	-17.94	1.54	-6.49	7.69	4.38
21	CO47	Connected member	-30.84	9.55	-1.48	0	0
	CO47	Connected member	9.87	-5.75	1.43	0	0
	CO48	Main member	-23.59	1.22	-11.19	12.6	3.29
21	CO48	Connected member	-17.44	14.05	-1.45	0	0



::LAVteam::

Page: 39/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO48	Connected member	3.9	-10.43	1.43	0	0
	CO49	Main member	-38.74	0	5.1	-4.88	-0.25
	CO49	Connected member	6.5	-5.22	-1.43	0	0
21	CO49	Connected member	-15.01	5.29	1.46	0	0
	CO50	Main member	-46.03	0.01	5.05	-4.68	-0.27
	CO50	Connected member	6.75	-5.22	-1.43	0	0
21	CO50	Connected member	-17.54	5.3	1.47	0	0
	CO51	Main member	-36.66	0.01	5.08	-4.8	-0.23
	CO51	Connected member	7.42	-5.22	-1.43	0	0
21	CO51	Connected member	-15.23	5.3	1.46	0	0
	CO52	Main member	-43.91	0	5.11	-4.75	-0.24
	CO52	Connected member	5.7	-5.22	-1.43	0	0
21	CO52	Connected member	-16.14	5.3	1.46	0	0
	CO53	Main member	-16.32	1.58	-6.5	7.4	4.31
	CO53	Connected member	-29.32	9.54	-1.48	0	0
21	CO53	Connected member	10.08	-5.75	1.43	0	0
	CO54	Main member	-16.98	1.55	-6.47	7.56	4.37
	CO54	Connected member	-30.27	9.55	-1.48	0	0
21	CO54	Connected member	10.01	-5.75	1.43	0	0
	CO55	Main member	-16.65	1.61	-6.47	7.54	4.52
	CO55	Connected member	-29.5	9.54	-1.48	0	0
21	CO55	Connected member	10	-5.75	1.43	0	0
	CO56	Main member	-15.58	1.55	-6.47	7.74	4.42
	CO56	Connected member	-30.68	9.55	-1.48	0	0
21	CO56	Connected member	10.37	-5.75	1.43	0	0
	CO57	Main member	-21.23	1.22	-11.18	12.66	3.32
	CO57	Connected member	-17.31	14.05	-1.45	0	0
21	CO57	Connected member	4.41	-10.42	1.43	0	0
	CO58	Main member	-36.36	0	5.12	-4.87	-0.22
	CO58	Connected member	6.56	-5.22	-1.43	0	0
21	CO58	Connected member	-14.45	5.29	1.46	0	0
	CO59	Main member	-43.65	0.02	5.07	-4.67	-0.24
	CO59	Connected member	6.81	-5.22	-1.43	0	0
21	CO59	Connected member	-16.97	5.3	1.47	0	0
	CO60	Main member	-37.77	0.01	5.08	-4.78	-0.23
	CO60	Connected member	7.32	-5.22	-1.43	0	0
21	CO60	Connected member	-15.51	5.3	1.46	0	0
	CO61	Main member	-45.02	0	5.11	-4.73	-0.24
	CO61	Connected member	5.6	-5.22	-1.43	0	0
21	CO61	Connected member	-16.43	5.3	1.46	0	0
	CO62	Main member	-17.43	1.58	-6.5	7.43	4.31
	CO62	Connected member	-29.41	9.54	-1.48	0	0
21	CO62	Connected member	9.79	-5.75	1.43	0	0
	CO63	Main member	-18.09	1.56	-6.47	7.59	4.37
	CO63	Connected member	-30.35	9.55	-1.48	0	0
21	CO63	Connected member	9.72	-5.75	1.43	0	0
	CO64	Main member	-17.76	1.61	-6.47	7.57	4.52
	CO64	Connected member	-29.59	9.54	-1.48	0	0
21	CO64	Connected member	9.71	-5.75	1.43	0	0
	CO65	Main member	-16.69	1.55	-6.48	7.76	4.42
	CO65	Connected member	-30.77	9.55	-1.48	0	0
21	CO65	Connected member	10.08	-5.75	1.43	0	0
	CO66	Main member	-22.34	1.22	-11.18	12.69	3.32
	CO66	Connected member	-17.4	14.05	-1.45	0	0
21	CO66	Connected member	4.13	-10.43	1.43	0	0
	CO67	Main member	-37.47	0	5.12	-4.85	-0.22
	CO67	Connected member	6.46	-5.22	-1.43	0	0
21	CO67	Connected member	-14.73	5.29	1.46	0	0
	CO68	Main member	-44.75	0.02	5.07	-4.65	-0.24
	CO68	Connected member	6.71	-5.22	-1.43	0	0
21	CO68	Connected member	-17.25	5.3	1.47	0	0
	CO69	Main member	-37.2	0.01	5.08	-4.81	-0.24
	CO69	Connected member	7.41	-5.22	-1.43	0	0
21	CO69	Connected member	-15.35	5.3	1.46	0	0
	CO70	Main member	-44.45	0	5.11	-4.75	-0.25
	CO70	Connected member	5.69	-5.22	-1.43	0	0
21	CO70	Connected member	-16.27	5.3	1.46	0	0
	CO71	Main member	-16.85	1.57	-6.5	7.39	4.3
	CO71	Connected member	-29.35	9.54	-1.48	0	0
21	CO71	Connected member	9.98	-5.75	1.43	0	0
	CO72	Main member	-17.51	1.55	-6.47	7.55	4.36
	CO72	Connected member	-30.3	9.55	-1.48	0	0
21	CO72	Connected member	9.9	-5.75	1.43	0	0
	CO73	Main member	-17.18	1.61	-6.47	7.52	4.51
	CO73	Connected member	-29.53	9.54	-1.48	0	0
21	CO73	Connected member	9.89	-5.75	1.43	0	0
	CO74	Main member	-16.12	1.55	-6.48	7.72	4.41
	CO74	Connected member	-30.71	9.55	-1.48	0	0
21	CO74	Connected member	10.26	-5.75	1.43	0	0
	CO75	Main member	-21.76	1.22	-11.18	12.64	3.31
	CO75	Connected member	-17.34	14.05	-1.45	0	0
21	CO75	Connected member	4.3	-10.42	1.43	0	0
	CO76	Main member	-36.9	0	5.11	-4.88	-0.23
	CO76	Connected member	6.55	-5.22	-1.43	0	0
21	CO76	Connected member	-14.57	5.29	1.46	0	0
	CO77	Main member	-44.19	0.02	5.07	-4.68	-0.24
	CO77	Connected member	6.8	-5.22	-1.43	0	0
21	CO77	Connected member	-17.1	5.3	1.47	0	0
	CO78	Main member	-37.45	0.01	5.07	-4.82	-0.25
	CO78	Connected member	7.43	-5.22	-1.43	0	0
21	CO78	Connected member	-15.41	5.3	1.46	0	0
	CO79	Main member	-44.71	0	5.1	-4.76	-0.26
	CO79	Connected member	5.7	-5.22	-1.43	0	0
21	CO79	Connected member	-16.32	5.3	1.46	0	0



::LAV/team::

Page: 40/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO80	Main member	-17.1	1.57	-6.5	7.36	4.29
	CO80	Connected member	-29.36	9.54	-1.48	0	0
	CO80	Connected member	9.94	-5.75	1.43	0	0
21	CO81	Main member	-17.76	1.55	-6.47	7.53	4.35
	CO81	Connected member	-30.31	9.55	-1.48	0	0
	CO81	Connected member	9.86	-5.75	1.43	0	0
21	CO82	Main member	-17.43	1.61	-6.47	7.5	4.5
	CO82	Connected member	-29.55	9.54	-1.48	0	0
	CO82	Connected member	9.86	-5.75	1.43	0	0
21	CO83	Main member	-16.37	1.55	-6.48	7.7	4.4
	CO83	Connected member	-30.72	9.55	-1.48	0	0
	CO83	Connected member	10.23	-5.75	1.43	0	0
21	CO84	Main member	-22.01	1.22	-11.18	12.62	3.3
	CO84	Connected member	-17.34	14.05	-1.45	0	0
	CO84	Connected member	4.26	-10.42	1.43	0	0
21	CO85	Main member	-37.16	0	5.11	-4.88	-0.24
	CO85	Connected member	6.57	-5.22	-1.43	0	0
	CO85	Connected member	-14.63	5.29	1.46	0	0
21	CO86	Main member	-44.45	0.01	5.06	-4.69	-0.25
	CO86	Connected member	6.82	-5.22	-1.43	0	0
	CO86	Connected member	-17.15	5.3	1.47	0	0
21	CO87	Main member	-36.19	0.02	5.09	-4.79	-0.22
	CO87	Connected member	7.39	-5.22	-1.43	0	0
	CO87	Connected member	-15.13	5.29	1.46	0	0
21	CO88	Main member	-43.44	0	5.12	-4.73	-0.22
	CO88	Connected member	5.67	-5.22	-1.43	0	0
	CO88	Connected member	-16.04	5.3	1.46	0	0
21	CO89	Main member	-15.86	1.58	-6.49	7.44	4.33
	CO89	Connected member	-29.29	9.54	-1.48	0	0
	CO89	Connected member	10.15	-5.75	1.43	0	0
21	CO90	Main member	-16.52	1.56	-6.46	7.6	4.39
	CO90	Connected member	-30.24	9.55	-1.48	0	0
	CO90	Connected member	10.07	-5.75	1.43	0	0
21	CO91	Main member	-16.19	1.61	-6.46	7.58	4.54
	CO91	Connected member	-29.48	9.54	-1.48	0	0
	CO91	Connected member	10.07	-5.75	1.43	0	0
21	CO92	Main member	-15.13	1.55	-6.47	7.77	4.44
	CO92	Connected member	-30.65	9.55	-1.48	0	0
	CO92	Connected member	10.44	-5.75	1.43	0	0
21	CO93	Main member	-20.76	1.23	-11.17	12.71	3.34
	CO93	Connected member	-17.3	14.05	-1.45	0	0
	CO93	Connected member	4.49	-10.42	1.43	0	0
21	CO94	Main member	-35.89	0.01	5.13	-4.86	-0.21
	CO94	Connected member	6.53	-5.22	-1.43	0	0
	CO94	Connected member	-14.35	5.29	1.46	0	0
21	CO95	Main member	-43.17	0.02	5.08	-4.66	-0.22
	CO95	Connected member	6.78	-5.22	-1.43	0	0
	CO95	Connected member	-16.87	5.3	1.47	0	0
21	CO96	Main member	-20.97	0.01	-0.14	0.49	0
	CO96	Connected member	-3.42	0	-1.45	0	0
	CO96	Connected member	-6.93	0	1.46	0	0
21	CO97	Main member	-22.09	0.01	-0.14	0.51	0
	CO97	Connected member	-3.52	0	-1.45	0	0
	CO97	Connected member	-7.21	0	1.46	0	0
21	CO98	Main member	-36.4	0.02	5.08	-4.79	-0.23
	CO98	Connected member	7.4	-5.22	-1.43	0	0
	CO98	Connected member	-15.18	5.29	1.46	0	0
21	CO99	Main member	-43.65	0	5.12	-4.74	-0.23
	CO99	Connected member	5.68	-5.22	-1.43	0	0
	CO99	Connected member	-16.09	5.3	1.46	0	0
21	CO100	Main member	-16.07	1.58	-6.49	7.42	4.32
	CO100	Connected member	-29.3	9.54	-1.48	0	0
	CO100	Connected member	10.12	-5.75	1.43	0	0
21	CO101	Main member	-16.73	1.56	-6.46	7.58	4.38
	CO101	Connected member	-30.25	9.55	-1.48	0	0
	CO101	Connected member	10.04	-5.75	1.43	0	0
21	CO102	Main member	-16.4	1.61	-6.46	7.56	4.53
	CO102	Connected member	-29.49	9.54	-1.48	0	0
	CO102	Connected member	10.03	-5.75	1.43	0	0
21	CO103	Main member	-15.34	1.55	-6.47	7.76	4.43
	CO103	Connected member	-30.66	9.55	-1.48	0	0
	CO103	Connected member	10.41	-5.75	1.43	0	0
21	CO104	Main member	-20.98	1.22	-11.17	12.69	3.33
	CO104	Connected member	-17.3	14.05	-1.45	0	0
	CO104	Connected member	4.46	-10.42	1.43	0	0
21	CO105	Main member	-36.11	0.01	5.12	-4.86	-0.21
	CO105	Connected member	6.55	-5.22	-1.43	0	0
	CO105	Connected member	-14.39	5.29	1.46	0	0
21	CO106	Main member	-43.39	0.02	5.07	-4.67	-0.23
	CO106	Connected member	6.8	-5.22	-1.43	0	0
	CO106	Connected member	-16.92	5.3	1.47	0	0
21	CO107	Main member	-37.51	0.02	5.08	-4.77	-0.23
	CO107	Connected member	7.3	-5.22	-1.43	0	0
	CO107	Connected member	-15.46	5.3	1.46	0	0
21	CO108	Main member	-44.76	0	5.12	-4.72	-0.23
	CO108	Connected member	5.58	-5.22	-1.43	0	0
	CO108	Connected member	-16.37	5.3	1.46	0	0
21	CO109	Main member	-17.19	1.58	-6.5	7.45	4.32
	CO109	Connected member	-29.39	9.54	-1.48	0	0
	CO109	Connected member	9.83	-5.75	1.43	0	0
21	CO110	Main member	-17.84	1.56	-6.47	7.61	4.38
	CO110	Connected member	-30.34	9.55	-1.48	0	0
	CO110	Connected member	9.75	-5.75	1.43	0	0
21	CO111	Main member	-17.51	1.61	-6.47	7.59	4.53



::LAV/team::

Page: 41/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO111	Connected member	-29.58	9.54	-1.48	0	0
	CO111	Connected member	9.75	-5.75	1.43	0	0
	CO112	Main member	-16.45	1.55	-6.48	7.78	4.43
21	CO112	Connected member	-30.75	9.55	-1.48	0	0
	CO112	Connected member	10.12	-5.75	1.43	0	0
	CO113	Main member	-22.09	1.22	-11.18	12.72	3.33
21	CO113	Connected member	-17.4	14.05	-1.45	0	0
	CO113	Connected member	4.17	-10.43	1.43	0	0
	CO114	Main member	-37.21	0.01	5.12	-4.84	-0.21
21	CO114	Connected member	6.45	-5.22	-1.43	0	0
	CO114	Connected member	-14.68	5.29	1.46	0	0
	CO115	Main member	-44.5	0.02	5.07	-4.65	-0.23
21	CO115	Connected member	6.7	-5.22	-1.43	0	0
	CO115	Connected member	-17.2	5.3	1.47	0	0
	CO116	Main member	-35.93	0.02	5.09	-4.78	-0.21
21	CO116	Connected member	7.37	-5.22	-1.43	0	0
	CO116	Connected member	-15.07	5.29	1.46	0	0
	CO117	Main member	-43.18	0	5.13	-4.73	-0.22
21	CO117	Connected member	5.65	-5.22	-1.43	0	0
	CO117	Connected member	-15.98	5.3	1.46	0	0
	CO118	Main member	-15.62	1.58	-6.49	7.46	4.34
21	CO118	Connected member	-29.28	9.54	-1.48	0	0
	CO118	Connected member	10.19	-5.75	1.43	0	0
	CO119	Main member	-16.28	1.56	-6.46	7.62	4.4
21	CO119	Connected member	-30.23	9.55	-1.48	0	0
	CO119	Connected member	10.11	-5.75	1.43	0	0
	CO120	Main member	-15.95	1.62	-6.46	7.6	4.55
21	CO120	Connected member	-29.46	9.54	-1.48	0	0
	CO120	Connected member	10.1	-5.75	1.43	0	0
	CO121	Main member	-14.88	1.55	-6.46	7.79	4.45
21	CO121	Connected member	-30.64	9.55	-1.48	0	0
	CO121	Connected member	10.47	-5.75	1.43	0	0
	CO122	Main member	-20.52	1.23	-11.17	12.74	3.35
21	CO122	Connected member	-17.29	14.05	-1.45	0	0
	CO122	Connected member	4.53	-10.42	1.43	0	0
	CO123	Main member	-35.63	0.01	5.13	-4.85	-0.2
21	CO123	Connected member	6.52	-5.22	-1.43	0	0
	CO123	Connected member	-14.29	5.29	1.46	0	0
	CO124	Main member	-42.92	0.02	5.08	-4.65	-0.21
21	CO124	Connected member	6.77	-5.22	-1.43	0	0
	CO124	Connected member	-16.81	5.3	1.47	0	0
	CO125	Main member	-19.59	0.02	-0.11	0.57	0.05
21	CO125	Connected member	-3.49	0	-1.45	0	0
	CO125	Connected member	-6.63	0	1.46	0	0
	CO126	Main member	-21.81	0.03	-0.12	0.61	0.05
21	CO126	Connected member	-3.69	0	-1.45	0	0
	CO126	Connected member	-7.2	0	1.46	0	0
	CO127	Main member	-20.84	0.02	-0.13	0.52	0.02
21	CO127	Connected member	-3.47	0	-1.45	0	0
	CO127	Connected member	-6.91	0	1.46	0	0
	CO128	Main member	-23.06	0.02	-0.13	0.56	0.02
21	CO128	Connected member	-3.67	0	-1.45	0	0
	CO128	Connected member	-7.47	0	1.46	0	0
	CO129	Main member	-21.09	0.02	-0.13	0.5	0.01
21	CO129	Connected member	-3.46	0	-1.45	0	0
	CO129	Connected member	-6.96	0	1.46	0	0
	CO130	Main member	-23.31	0.02	-0.14	0.55	0.01
21	CO130	Connected member	-3.65	0	-1.45	0	0
	CO130	Connected member	-7.53	0	1.46	0	0
	CO131	Main member	-19.84	0.02	-0.12	0.56	0.04
21	CO131	Connected member	-3.48	0	-1.45	0	0
	CO131	Connected member	-6.69	0	1.46	0	0
	CO132	Main member	-22.06	0.02	-0.12	0.6	0.04
21	CO132	Connected member	-3.68	0	-1.45	0	0
	CO132	Connected member	-7.25	0	1.46	0	0
	CO133	Main member	-36.26	0.02	5.09	-4.78	-0.21
21	CO133	Connected member	7.35	-5.22	-1.43	0	0
	CO133	Connected member	-15.15	5.29	1.46	0	0
	CO134	Main member	-43.5	0	5.13	-4.73	-0.21
21	CO134	Connected member	5.63	-5.22	-1.43	0	0
	CO134	Connected member	-16.06	5.3	1.46	0	0
	CO135	Main member	-15.95	1.58	-6.49	7.47	4.34
21	CO135	Connected member	-29.3	9.54	-1.48	0	0
	CO135	Connected member	10.11	-5.75	1.43	0	0
	CO136	Main member	-16.6	1.56	-6.46	7.62	4.4
21	CO136	Connected member	-30.25	9.55	-1.48	0	0
	CO136	Connected member	10.04	-5.75	1.43	0	0
	CO137	Main member	-16.27	1.62	-6.46	7.6	4.55
21	CO137	Connected member	-29.48	9.54	-1.48	0	0
	CO137	Connected member	10.03	-5.75	1.43	0	0
	CO138	Main member	-15.2	1.55	-6.46	7.79	4.45
21	CO138	Connected member	-30.66	9.55	-1.48	0	0
	CO138	Connected member	10.4	-5.75	1.43	0	0
	CO139	Main member	-20.84	1.23	-11.17	12.74	3.35
21	CO139	Connected member	-17.32	14.05	-1.45	0	0
	CO139	Connected member	4.46	-10.42	1.43	0	0
	CO140	Main member	-35.96	0.01	5.13	-4.85	-0.2
21	CO140	Connected member	6.5	-5.22	-1.43	0	0
	CO140	Connected member	-14.37	5.29	1.46	0	0
	CO141	Main member	-43.24	0.02	5.08	-4.65	-0.21
21	CO141	Connected member	6.74	-5.22	-1.43	0	0
	CO141	Connected member	-16.89	5.3	1.47	0	0
	CO142	Main member	-38.47	0.02	5.09	-4.74	-0.21
21	CO142	Connected member	7.15	-5.22	-1.43	0	0



::LAV/team::

Page: 42/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO142	Connected member	-15.71	5.3	1.46	0	0
	CO143	Main member	-45.72	0.01	5.13	-4.69	-0.21
	CO143	Connected member	5.43	-5.22	-1.43	0	0
21	CO143	Connected member	-16.62	5.3	1.46	0	0
	CO144	Main member	-18.17	1.58	-6.5	7.52	4.34
	CO144	Connected member	-29.48	9.54	-1.48	0	0
21	CO144	Connected member	9.53	-5.75	1.43	0	0
	CO145	Main member	-18.83	1.56	-6.46	7.68	4.4
	CO145	Connected member	-30.43	9.55	-1.48	0	0
21	CO145	Connected member	9.46	-5.75	1.43	0	0
	CO146	Main member	-18.5	1.62	-6.46	7.65	4.55
	CO146	Connected member	-29.66	9.54	-1.48	0	0
21	CO146	Connected member	9.45	-5.75	1.43	0	0
	CO147	Main member	-17.43	1.55	-6.47	7.85	4.45
	CO147	Connected member	-30.84	9.55	-1.48	0	0
21	CO147	Connected member	9.82	-5.75	1.43	0	0
	CO148	Main member	-23.06	1.23	-11.18	12.8	3.35
	CO148	Connected member	-17.5	14.05	-1.45	0	0
21	CO148	Connected member	3.88	-10.43	1.43	0	0
	CO149	Main member	-38.17	0.01	5.13	-4.81	-0.2
	CO149	Connected member	6.3	-5.22	-1.43	0	0
21	CO149	Connected member	-14.93	5.29	1.46	0	0
	CO150	Main member	-45.46	0.02	5.08	-4.61	-0.21
	CO150	Connected member	6.55	-5.22	-1.43	0	0
21	CO150	Connected member	-17.45	5.3	1.47	0	0
	CO151	Main member	-36.51	0.02	5.09	-4.79	-0.22
	CO151	Connected member	7.37	-5.22	-1.43	0	0
21	CO151	Connected member	-15.2	5.29	1.46	0	0
	CO152	Main member	-43.76	0	5.12	-4.73	-0.22
	CO152	Connected member	5.65	-5.22	-1.43	0	0
21	CO152	Connected member	-16.12	5.3	1.46	0	0
	CO153	Main member	-16.19	1.58	-6.49	7.44	4.33
	CO153	Connected member	-29.31	9.54	-1.48	0	0
21	CO153	Connected member	10.07	-5.75	1.43	0	0
	CO154	Main member	-16.85	1.56	-6.46	7.6	4.39
	CO154	Connected member	-30.26	9.55	-1.48	0	0
21	CO154	Connected member	10	-5.75	1.43	0	0
	CO155	Main member	-16.52	1.61	-6.46	7.58	4.54
	CO155	Connected member	-29.5	9.54	-1.48	0	0
21	CO155	Connected member	9.99	-5.75	1.43	0	0
	CO156	Main member	-15.45	1.55	-6.47	7.77	4.44
	CO156	Connected member	-30.67	9.55	-1.48	0	0
21	CO156	Connected member	10.36	-5.75	1.43	0	0
	CO157	Main member	-21.09	1.23	-11.17	12.71	3.34
	CO157	Connected member	-17.32	14.05	-1.45	0	0
21	CO157	Connected member	4.42	-10.42	1.43	0	0
	CO158	Main member	-36.21	0.01	5.13	-4.86	-0.2
	CO158	Connected member	6.51	-5.22	-1.43	0	0
21	CO158	Connected member	-14.42	5.29	1.46	0	0
	CO159	Main member	-43.5	0.02	5.08	-4.66	-0.22
	CO159	Connected member	6.76	-5.22	-1.43	0	0
21	CO159	Connected member	-16.94	5.3	1.47	0	0
	CO160	Main member	-38.73	0.02	5.09	-4.75	-0.22
	CO160	Connected member	7.17	-5.22	-1.43	0	0
21	CO160	Connected member	-15.77	5.3	1.46	0	0
	CO161	Main member	-45.97	0	5.12	-4.7	-0.22
	CO161	Connected member	5.45	-5.22	-1.43	0	0
21	CO161	Connected member	-16.68	5.3	1.46	0	0
	CO162	Main member	-18.42	1.58	-6.5	7.5	4.33
	CO162	Connected member	-29.49	9.54	-1.48	0	0
21	CO162	Connected member	9.5	-5.75	1.43	0	0
	CO163	Main member	-19.07	1.56	-6.47	7.66	4.39
	CO163	Connected member	-30.44	9.55	-1.48	0	0
21	CO163	Connected member	9.42	-5.76	1.43	0	0
	CO164	Main member	-18.74	1.62	-6.47	7.63	4.54
	CO164	Connected member	-29.68	9.54	-1.48	0	0
21	CO164	Connected member	9.41	-5.76	1.43	0	0
	CO165	Main member	-17.67	1.55	-6.48	7.83	4.44
	CO165	Connected member	-30.85	9.55	-1.48	0	0
21	CO165	Connected member	9.79	-5.75	1.43	0	0
	CO166	Main member	-23.31	1.23	-11.18	12.77	3.34
	CO166	Connected member	-17.5	14.05	-1.45	0	0
21	CO166	Connected member	3.84	-10.43	1.43	0	0
	CO167	Main member	-38.43	0.01	5.12	-4.82	-0.2
	CO167	Connected member	6.31	-5.22	-1.43	0	0
21	CO167	Connected member	-14.98	5.29	1.46	0	0
	CO168	Main member	-45.71	0.02	5.08	-4.62	-0.22
	CO168	Connected member	6.56	-5.22	-1.43	0	0
21	CO168	Connected member	-17.51	5.3	1.47	0	0
	CO169	Main member	-35.24	0.02	5.11	-4.76	-0.18
	CO169	Connected member	7.33	-5.22	-1.43	0	0
21	CO169	Connected member	-14.92	5.29	1.46	0	0
	CO170	Main member	-42.48	0.01	5.14	-4.71	-0.19
	CO170	Connected member	5.61	-5.22	-1.43	0	0
21	CO170	Connected member	-15.83	5.3	1.46	0	0
	CO171	Main member	-14.96	1.58	-6.48	7.52	4.37
	CO171	Connected member	-29.24	9.54	-1.48	0	0
21	CO171	Connected member	10.28	-5.75	1.43	0	0
	CO172	Main member	-15.61	1.56	-6.45	7.68	4.43
	CO172	Connected member	-30.19	9.55	-1.48	0	0
21	CO172	Connected member	10.21	-5.75	1.43	0	0
	CO173	Main member	-15.28	1.62	-6.45	7.65	4.58
	CO173	Connected member	-29.43	9.54	-1.48	0	0
21	CO173	Connected member	10.2	-5.75	1.43	0	0



::LAV/team::

Page: 43/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO174	Main member	-14.21	1.55	-6.45	7.85	4.48
	CO174	Connected member	-30.6	9.55	-1.48	0	0
	CO174	Connected member	10.58	-5.75	1.43	0	0
21	CO175	Main member	-19.84	1.23	-11.16	12.8	3.38
	CO175	Connected member	-17.28	14.05	-1.45	0	0
	CO175	Connected member	4.64	-10.42	1.43	0	0
21	CO176	Main member	-34.94	0.01	5.15	-4.83	-0.17
	CO176	Connected member	6.48	-5.22	-1.43	0	0
	CO176	Connected member	-14.14	5.29	1.46	0	0
21	CO177	Main member	-42.22	0.03	5.1	-4.63	-0.19
	CO177	Connected member	6.72	-5.22	-1.43	0	0
	CO177	Connected member	-16.66	5.3	1.46	0	0
21	CO178	Main member	-37.46	0.02	5.1	-4.72	-0.18
	CO178	Connected member	7.13	-5.22	-1.43	0	0
	CO178	Connected member	-15.48	5.3	1.46	0	0
21	CO179	Main member	-44.69	0.01	5.14	-4.67	-0.19
	CO179	Connected member	5.41	-5.22	-1.43	0	0
	CO179	Connected member	-16.39	5.3	1.46	0	0
21	CO180	Main member	-17.18	1.58	-6.49	7.57	4.37
	CO180	Connected member	-29.42	9.54	-1.48	0	0
	CO180	Connected member	9.71	-5.75	1.43	0	0
21	CO181	Main member	-17.83	1.56	-6.45	7.73	4.43
	CO181	Connected member	-30.37	9.55	-1.48	0	0
	CO181	Connected member	9.63	-5.75	1.43	0	0
21	CO182	Main member	-17.5	1.62	-6.45	7.71	4.58
	CO182	Connected member	-29.61	9.54	-1.48	0	0
	CO182	Connected member	9.63	-5.75	1.43	0	0
21	CO183	Main member	-16.43	1.55	-6.46	7.9	4.48
	CO183	Connected member	-30.78	9.55	-1.48	0	0
	CO183	Connected member	10	-5.75	1.43	0	0
21	CO184	Main member	-22.06	1.23	-11.17	12.86	3.38
	CO184	Connected member	-17.46	14.05	-1.45	0	0
	CO184	Connected member	4.07	-10.43	1.43	0	0
21	CO185	Main member	-37.16	0.01	5.14	-4.79	-0.17
	CO185	Connected member	6.28	-5.22	-1.43	0	0
	CO185	Connected member	-14.7	5.29	1.46	0	0
21	CO186	Main member	-44.44	0.03	5.09	-4.59	-0.19
	CO186	Connected member	6.52	-5.22	-1.43	0	0
	CO186	Connected member	-17.22	5.3	1.47	0	0
21	CO187	Main member	-34.98	0.02	5.11	-4.75	-0.18
	CO187	Connected member	7.31	-5.22	-1.43	0	0
	CO187	Connected member	-14.86	5.29	1.46	0	0
21	CO188	Main member	-42.22	0.01	5.15	-4.7	-0.18
	CO188	Connected member	5.59	-5.22	-1.43	0	0
	CO188	Connected member	-15.78	5.3	1.46	0	0
21	CO189	Main member	-14.71	1.58	-6.47	7.54	4.38
	CO189	Connected member	-29.23	9.54	-1.48	0	0
	CO189	Connected member	10.32	-5.75	1.43	0	0
21	CO190	Main member	-15.36	1.56	-6.44	7.7	4.44
	CO190	Connected member	-30.18	9.55	-1.48	0	0
	CO190	Connected member	10.25	-5.75	1.43	0	0
21	CO191	Main member	-15.03	1.62	-6.44	7.67	4.59
	CO191	Connected member	-29.42	9.54	-1.48	0	0
	CO191	Connected member	10.24	-5.75	1.43	0	0
21	CO192	Main member	-13.96	1.55	-6.45	7.86	4.49
	CO192	Connected member	-30.59	9.55	-1.48	0	0
	CO192	Connected member	10.61	-5.75	1.43	0	0
21	CO193	Main member	-19.59	1.23	-11.15	12.83	3.39
	CO193	Connected member	-17.28	14.05	-1.45	0	0
	CO193	Connected member	4.68	-10.42	1.43	0	0
21	CO194	Main member	-34.68	0.01	5.15	-4.82	-0.16
	CO194	Connected member	6.46	-5.22	-1.43	0	0
	CO194	Connected member	-14.08	5.29	1.46	0	0
21	CO195	Main member	-41.96	0.03	5.1	-4.63	-0.18
	CO195	Connected member	6.71	-5.22	-1.43	0	0
	CO195	Connected member	-16.6	5.3	1.46	0	0
21	CO196	Main member	-37.2	0.03	5.11	-4.71	-0.18
	CO196	Connected member	7.11	-5.22	-1.43	0	0
	CO196	Connected member	-15.43	5.3	1.46	0	0
21	CO197	Main member	-44.44	0.01	5.14	-4.66	-0.18
	CO197	Connected member	5.4	-5.22	-1.43	0	0
	CO197	Connected member	-16.34	5.3	1.46	0	0
21	CO198	Main member	-16.94	1.58	-6.48	7.6	4.38
	CO198	Connected member	-29.41	9.54	-1.48	0	0
	CO198	Connected member	9.74	-5.75	1.43	0	0
21	CO199	Main member	-17.58	1.56	-6.45	7.75	4.44
	CO199	Connected member	-30.36	9.55	-1.48	0	0
	CO199	Connected member	9.67	-5.75	1.43	0	0
21	CO200	Main member	-17.26	1.62	-6.45	7.73	4.59
	CO200	Connected member	-29.59	9.54	-1.48	0	0
	CO200	Connected member	9.66	-5.75	1.43	0	0
21	CO201	Main member	-16.18	1.55	-6.46	7.92	4.49
	CO201	Connected member	-30.77	9.55	-1.48	0	0
	CO201	Connected member	10.04	-5.75	1.43	0	0
21	CO202	Main member	-21.81	1.23	-11.17	12.88	3.39
	CO202	Connected member	-17.46	14.05	-1.45	0	0
	CO202	Connected member	4.11	-10.43	1.43	0	0
21	CO203	Main member	-36.9	0.02	5.15	-4.78	-0.16
	CO203	Connected member	6.26	-5.22	-1.43	0	0
	CO203	Connected member	-14.65	5.29	1.46	0	0
21	CO204	Main member	-44.18	0.03	5.1	-4.59	-0.18
	CO204	Connected member	6.51	-5.22	-1.43	0	0
	CO204	Connected member	-17.17	5.3	1.47	0	0
21	CO205	Main member	-44.27	0.03	8.63	-8.32	-0.3



::LAVteam::

Page: 44/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO205	Connected member	14.42	-8.65	-1.42	0	0
	CO205	Connected member	-20.09	8.85	1.46	0	0
	CO206	Main member	-56.25	0	8.71	-8.31	-0.31
21	CO206	Connected member	11.53	-8.67	-1.42	0	0
	CO206	Connected member	-21.59	8.86	1.46	0	0
	CO207	Main member	-10.55	2.62	-10.71	12.32	7.33
21	CO207	Connected member	-46.21	16.09	-1.49	0	0
	CO207	Connected member	21.76	-9.52	1.41	0	0
	CO208	Main member	-11.66	2.58	-10.65	12.61	7.43
21	CO208	Connected member	-47.61	16.1	-1.5	0	0
	CO208	Connected member	21.53	-9.52	1.41	0	0
	CO209	Main member	-11.11	2.68	-10.65	12.56	7.67
21	CO209	Connected member	-46.35	16.09	-1.49	0	0
	CO209	Connected member	21.51	-9.52	1.41	0	0
	CO210	Main member	-9.32	2.56	-10.67	12.92	7.52
21	CO210	Connected member	-48.13	16.11	-1.5	0	0
	CO210	Connected member	22.03	-9.51	1.41	0	0
	CO211	Main member	-18.65	2.02	-18.53	21.29	5.62
21	CO211	Connected member	-26.01	23.55	-1.44	0	0
	CO211	Connected member	12.3	-17.28	1.39	0.01	0
	CO212	Main member	-43.73	0.01	8.71	-8.48	-0.28
21	CO212	Connected member	12.98	-8.66	-1.42	0	0
	CO212	Connected member	-18.78	8.85	1.46	0	0
	CO213	Main member	-55.87	0.03	8.63	-8.14	-0.3
21	CO213	Connected member	13.4	-8.66	-1.42	0	0
	CO213	Connected member	-22.98	8.87	1.47	0	0
	CO214	Main member	-45.56	0.03	8.61	-8.33	-0.33
21	CO214	Connected member	14.46	-8.65	-1.42	0	0
	CO214	Connected member	-20.38	8.86	1.46	0	0
	CO215	Main member	-57.55	0	8.69	-8.32	-0.34
21	CO215	Connected member	11.58	-8.67	-1.42	0	0
	CO215	Connected member	-21.88	8.87	1.46	0	0
	CO216	Main member	-11.78	2.62	-10.72	12.23	7.28
21	CO216	Connected member	-46.34	16.09	-1.49	0	0
	CO216	Connected member	21.59	-9.52	1.41	0	0
	CO217	Main member	-12.9	2.58	-10.67	12.52	7.39
21	CO217	Connected member	-47.73	16.11	-1.5	0	0
	CO217	Connected member	21.35	-9.52	1.41	0	0
	CO218	Main member	-12.35	2.68	-10.67	12.48	7.63
21	CO218	Connected member	-46.48	16.09	-1.49	0	0
	CO218	Connected member	21.34	-9.52	1.41	0	0
	CO219	Main member	-10.57	2.56	-10.68	12.84	7.48
21	CO219	Connected member	-48.26	16.11	-1.5	0	0
	CO219	Connected member	21.85	-9.51	1.41	0	0
	CO220	Main member	-19.91	2.02	-18.54	21.18	5.59
21	CO220	Connected member	-26.09	23.55	-1.44	0	0
	CO220	Connected member	12.1	-17.29	1.39	0.01	0
	CO221	Main member	-45.02	0.01	8.69	-8.49	-0.31
21	CO221	Connected member	13.03	-8.66	-1.42	0	0
	CO221	Connected member	-19.07	8.85	1.46	0	0
	CO222	Main member	-57.17	0.03	8.61	-8.15	-0.33
21	CO222	Connected member	13.45	-8.66	-1.42	0	0
	CO222	Connected member	-23.27	8.87	1.47	0	0
	CO223	Main member	-45.82	0.02	8.61	-8.33	-0.34
21	CO223	Connected member	14.48	-8.65	-1.42	0	0
	CO223	Connected member	-20.44	8.86	1.46	0	0
	CO224	Main member	-57.82	0	8.68	-8.32	-0.35
21	CO224	Connected member	11.6	-8.67	-1.42	0	0
	CO224	Connected member	-21.94	8.87	1.47	0	0
	CO225	Main member	-12.03	2.62	-10.72	12.2	7.27
21	CO225	Connected member	-46.37	16.09	-1.49	0	0
	CO225	Connected member	21.57	-9.52	1.41	0	0
	CO226	Main member	-13.14	2.58	-10.67	12.5	7.38
21	CO226	Connected member	-47.76	16.11	-1.5	0	0
	CO226	Connected member	21.33	-9.52	1.41	0	0
	CO227	Main member	-12.59	2.68	-10.67	12.45	7.62
21	CO227	Connected member	-46.51	16.09	-1.49	0	0
	CO227	Connected member	21.31	-9.52	1.41	0	0
	CO228	Main member	-10.81	2.56	-10.69	12.82	7.47
21	CO228	Connected member	-48.29	16.11	-1.5	0	0
	CO228	Connected member	21.83	-9.51	1.41	0	0
	CO229	Main member	-20.16	2.02	-18.54	21.15	5.58
21	CO229	Connected member	-26.11	23.55	-1.44	0	0
	CO229	Connected member	12.06	-17.29	1.39	0.01	0
	CO230	Main member	-45.28	0.01	8.68	-8.49	-0.32
21	CO230	Connected member	13.04	-8.66	-1.42	0	0
	CO230	Connected member	-19.13	8.85	1.46	0	0
	CO231	Main member	-57.43	0.03	8.6	-8.15	-0.34
21	CO231	Connected member	13.47	-8.66	-1.42	0	0
	CO231	Connected member	-23.33	8.87	1.47	0	0
	CO232	Main member	-44.53	0.03	8.63	-8.32	-0.31
21	CO232	Connected member	14.44	-8.65	-1.42	0	0
	CO232	Connected member	-20.15	8.85	1.46	0	0
	CO233	Main member	-56.51	0	8.7	-8.32	-0.32
21	CO233	Connected member	11.55	-8.67	-1.42	0	0
	CO233	Connected member	-21.65	8.86	1.46	0	0
	CO234	Main member	-10.8	2.62	-10.71	12.29	7.32
21	CO234	Connected member	-46.24	16.09	-1.49	0	0
	CO234	Connected member	21.74	-9.52	1.41	0	0
	CO235	Main member	-11.9	2.58	-10.66	12.58	7.42
21	CO235	Connected member	-47.64	16.1	-1.5	0	0
	CO235	Connected member	21.5	-9.52	1.41	0	0
	CO236	Main member	-11.35	2.68	-10.66	12.54	7.66
21	CO236	Connected member	-46.38	16.09	-1.49	0	0



::LAV/team::

Page: 45/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO236	Connected member	21.48	-9.52	1.41	0	0
	CO237	Main member	-9.57	2.56	-10.67	12.9	7.51
	CO237	Connected member	-48.16	16.11	-1.5	0	0
21	CO237	Connected member	22	-9.51	1.41	0	0
	CO238	Main member	-18.9	2.02	-18.53	21.26	5.61
	CO238	Connected member	-26.03	23.55	-1.44	0	0
21	CO238	Connected member	12.26	-17.28	1.39	0.01	0
	CO239	Main member	-43.99	0.01	8.7	-8.48	-0.29
	CO239	Connected member	13	-8.66	-1.42	0	0
21	CO239	Connected member	-18.84	8.85	1.46	0	0
	CO240	Main member	-56.13	0.03	8.62	-8.14	-0.31
	CO240	Connected member	13.42	-8.66	-1.42	0	0
21	CO240	Connected member	-23.04	8.87	1.47	0	0
	CO241	Main member	-46.04	0.02	8.6	-8.34	-0.34
	CO241	Connected member	14.5	-8.65	-1.42	0	0
21	CO241	Connected member	-20.49	8.86	1.46	0	0
	CO242	Main member	-58.04	0	8.68	-8.33	-0.36
	CO242	Connected member	11.61	-8.67	-1.42	0	0
21	CO242	Connected member	-21.99	8.87	1.47	0	0
	CO243	Main member	-12.23	2.62	-10.72	12.18	7.26
	CO243	Connected member	-46.39	16.09	-1.49	0	0
21	CO243	Connected member	21.55	-9.52	1.41	0	0
	CO244	Main member	-13.35	2.58	-10.67	12.48	7.37
	CO244	Connected member	-47.79	16.11	-1.5	0	0
21	CO244	Connected member	21.3	-9.52	1.41	0	0
	CO245	Main member	-12.8	2.68	-10.67	12.43	7.61
	CO245	Connected member	-46.53	16.09	-1.49	0	0
21	CO245	Connected member	21.29	-9.52	1.41	0	0
	CO246	Main member	-11.03	2.56	-10.69	12.8	7.46
	CO246	Connected member	-48.31	16.11	-1.5	0	0
21	CO246	Connected member	21.8	-9.51	1.41	0	0
	CO247	Main member	-20.37	2.02	-18.55	21.12	5.57
	CO247	Connected member	-26.12	23.55	-1.44	0	0
21	CO247	Connected member	12.03	-17.29	1.39	0.01	0
	CO248	Main member	-45.51	0.01	8.67	-8.5	-0.32
	CO248	Connected member	13.06	-8.66	-1.42	0	0
21	CO248	Connected member	-19.17	8.85	1.46	0	0
	CO249	Main member	-57.65	0.03	8.6	-8.15	-0.35
	CO249	Connected member	13.48	-8.66	-1.42	0	0
21	CO249	Connected member	-23.38	8.87	1.47	0	0
	CO250	Main member	-47.15	0.02	8.6	-8.32	-0.34
	CO250	Connected member	14.4	-8.65	-1.42	0	0
21	CO250	Connected member	-20.77	8.86	1.46	0	0
	CO251	Main member	-59.15	0	8.68	-8.31	-0.36
	CO251	Connected member	11.51	-8.67	-1.42	0	0
21	CO251	Connected member	-22.27	8.87	1.47	0	0
	CO252	Main member	-13.35	2.62	-10.73	12.21	7.26
	CO252	Connected member	-46.48	16.09	-1.49	0	0
21	CO252	Connected member	21.25	-9.52	1.41	0	0
	CO253	Main member	-14.46	2.58	-10.68	12.51	7.37
	CO253	Connected member	-47.87	16.11	-1.5	0	0
21	CO253	Connected member	21.01	-9.52	1.41	0	0
	CO254	Main member	-13.91	2.68	-10.68	12.46	7.61
	CO254	Connected member	-46.61	16.09	-1.49	0	0
21	CO254	Connected member	20.99	-9.52	1.41	0	0
	CO255	Main member	-12.14	2.56	-10.7	12.83	7.46
	CO255	Connected member	-48.39	16.11	-1.5	0	0
21	CO255	Connected member	21.51	-9.52	1.41	0	0
	CO256	Main member	-21.48	2.02	-18.55	21.16	5.57
	CO256	Connected member	-26.21	23.55	-1.44	0	0
21	CO256	Connected member	11.74	-17.29	1.4	0.01	0
	CO257	Main member	-46.61	0.01	8.67	-8.48	-0.32
	CO257	Connected member	12.96	-8.66	-1.42	0	0
21	CO257	Connected member	-19.46	8.85	1.46	0	0
	CO258	Main member	-58.76	0.03	8.6	-8.14	-0.35
	CO258	Connected member	13.38	-8.66	-1.42	0	0
21	CO258	Connected member	-23.66	8.88	1.47	0	0
	CO259	Main member	-46.3	0.02	8.6	-8.34	-0.35
	CO259	Connected member	14.52	-8.65	-1.42	0	0
21	CO259	Connected member	-20.54	8.86	1.46	0	0
	CO260	Main member	-58.31	0	8.67	-8.33	-0.36
	CO260	Connected member	11.63	-8.67	-1.42	0	0
21	CO260	Connected member	-22.05	8.87	1.47	0	0
	CO261	Main member	-12.48	2.62	-10.73	12.15	7.25
	CO261	Connected member	-46.42	16.09	-1.49	0	0
21	CO261	Connected member	21.52	-9.52	1.41	0	0
	CO262	Main member	-13.6	2.58	-10.68	12.45	7.36
	CO262	Connected member	-47.82	16.11	-1.5	0	0
21	CO262	Connected member	21.28	-9.52	1.41	0	0
	CO263	Main member	-13.05	2.68	-10.68	12.41	7.6
	CO263	Connected member	-46.56	16.09	-1.49	0	0
21	CO263	Connected member	21.26	-9.52	1.41	0	0
	CO264	Main member	-11.27	2.56	-10.69	12.78	7.45
	CO264	Connected member	-48.34	16.11	-1.5	0	0
21	CO264	Connected member	21.78	-9.52	1.41	0	0
	CO265	Main member	-20.62	2.02	-18.55	21.09	5.56
	CO265	Connected member	-26.14	23.55	-1.43	0	0
21	CO265	Connected member	12	-17.29	1.39	0.01	0
	CO266	Main member	-45.77	0	8.67	-8.5	-0.33
	CO266	Connected member	13.08	-8.66	-1.42	0	0
21	CO266	Connected member	-19.23	8.85	1.46	0	0
	CO267	Main member	-57.91	0.03	8.59	-8.16	-0.36
	CO267	Connected member	13.5	-8.66	-1.42	0	0
	CO267	Connected member	-23.44	8.87	1.47	0	0



::LAV/team::

Page: 46/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO268	Main member	-47.41	0.02	8.6	-8.32	-0.35
	CO268	Connected member	14.42	-8.65	-1.42	0	0
	CO268	Connected member	-20.82	8.86	1.46	0	0
21	CO269	Main member	-59.41	0	8.67	-8.31	-0.37
	CO269	Connected member	11.53	-8.67	-1.42	0	0
	CO269	Connected member	-22.33	8.87	1.47	0	0
21	CO270	Main member	-13.59	2.62	-10.73	12.18	7.25
	CO270	Connected member	-46.51	16.09	-1.49	0	0
	CO270	Connected member	21.23	-9.52	1.41	0	0
21	CO271	Main member	-14.71	2.58	-10.68	12.48	7.36
	CO271	Connected member	-47.9	16.11	-1.5	0	0
	CO271	Connected member	20.99	-9.52	1.41	0	0
21	CO272	Main member	-14.16	2.68	-10.68	12.44	7.6
	CO272	Connected member	-46.64	16.09	-1.49	0	0
	CO272	Connected member	20.97	-9.52	1.41	0	0
21	CO273	Main member	-12.38	2.56	-10.7	12.81	7.45
	CO273	Connected member	-48.42	16.11	-1.5	0	0
	CO273	Connected member	21.48	-9.52	1.41	0	0
21	CO274	Main member	-21.73	2.02	-18.56	21.12	5.56
	CO274	Connected member	-26.22	23.55	-1.44	0	0
	CO274	Connected member	11.71	-17.29	1.4	0.01	0
21	CO275	Main member	-46.87	0	8.67	-8.48	-0.33
	CO275	Connected member	12.98	-8.66	-1.42	0	0
	CO275	Connected member	-19.51	8.85	1.46	0	0
21	CO276	Main member	-59.02	0.03	8.59	-8.14	-0.36
	CO276	Connected member	13.4	-8.66	-1.42	0	0
	CO276	Connected member	-23.72	8.88	1.47	0	0
21	CO277	Main member	-45.01	0.03	8.62	-8.33	-0.32
	CO277	Connected member	14.47	-8.65	-1.42	0	0
	CO277	Connected member	-20.26	8.86	1.46	0	0
21	CO278	Main member	-57	0	8.69	-8.32	-0.33
	CO278	Connected member	11.58	-8.67	-1.42	0	0
	CO278	Connected member	-21.75	8.86	1.46	0	0
21	CO279	Main member	-11.25	2.62	-10.71	12.25	7.29
	CO279	Connected member	-46.29	16.09	-1.49	0	0
	CO279	Connected member	21.69	-9.52	1.41	0	0
21	CO280	Main member	-12.36	2.58	-10.66	12.54	7.4
	CO280	Connected member	-47.69	16.11	-1.5	0	0
	CO280	Connected member	21.45	-9.52	1.41	0	0
21	CO281	Main member	-11.81	2.68	-10.66	12.49	7.64
	CO281	Connected member	-46.43	16.09	-1.49	0	0
	CO281	Connected member	21.43	-9.52	1.41	0	0
21	CO282	Main member	-10.03	2.56	-10.68	12.86	7.49
	CO282	Connected member	-48.21	16.11	-1.5	0	0
	CO282	Connected member	21.95	-9.51	1.41	0	0
21	CO283	Main member	-19.37	2.02	-18.54	21.2	5.59
	CO283	Connected member	-26.06	23.55	-1.44	0	0
	CO283	Connected member	12.2	-17.28	1.39	0.01	0
21	CO284	Main member	-44.47	0.01	8.69	-8.49	-0.3
	CO284	Connected member	13.03	-8.66	-1.42	0	0
	CO284	Connected member	-18.94	8.85	1.46	0	0
21	CO285	Main member	-56.62	0.03	8.61	-8.14	-0.33
	CO285	Connected member	13.45	-8.66	-1.42	0	0
	CO285	Connected member	-23.14	8.87	1.47	0	0
21	CO286	Main member	-46.12	0.03	8.62	-8.31	-0.32
	CO286	Connected member	14.37	-8.65	-1.42	0	0
	CO286	Connected member	-20.54	8.86	1.46	0	0
21	CO287	Main member	-58.11	0	8.69	-8.3	-0.33
	CO287	Connected member	11.48	-8.67	-1.42	0	0
	CO287	Connected member	-22.03	8.87	1.47	0	0
21	CO288	Main member	-12.36	2.62	-10.72	12.28	7.3
	CO288	Connected member	-46.37	16.09	-1.49	0	0
	CO288	Connected member	21.4	-9.52	1.41	0	0
21	CO289	Main member	-13.47	2.58	-10.67	12.57	7.4
	CO289	Connected member	-47.77	16.11	-1.5	0	0
	CO289	Connected member	21.16	-9.52	1.41	0	0
21	CO290	Main member	-12.92	2.68	-10.67	12.52	7.64
	CO290	Connected member	-46.52	16.09	-1.49	0	0
	CO290	Connected member	21.14	-9.52	1.41	0	0
21	CO291	Main member	-11.14	2.56	-10.69	12.89	7.49
	CO291	Connected member	-48.3	16.11	-1.5	0	0
	CO291	Connected member	21.66	-9.52	1.41	0	0
21	CO292	Main member	-20.47	2.02	-18.55	21.24	5.59
	CO292	Connected member	-26.15	23.55	-1.44	0	0
	CO292	Connected member	11.91	-17.29	1.4	0.01	0
21	CO293	Main member	-45.58	0.01	8.69	-8.47	-0.3
	CO293	Connected member	12.93	-8.66	-1.42	0	0
	CO293	Connected member	-19.22	8.85	1.46	0	0
21	CO294	Main member	-57.72	0.03	8.61	-8.13	-0.33
	CO294	Connected member	13.35	-8.66	-1.42	0	0
	CO294	Connected member	-23.42	8.87	1.47	0	0
21	CO295	Main member	-44.75	0.03	8.62	-8.32	-0.31
	CO295	Connected member	14.45	-8.65	-1.42	0	0
	CO295	Connected member	-20.2	8.85	1.46	0	0
21	CO296	Main member	-56.74	0	8.7	-8.32	-0.33
	CO296	Connected member	11.57	-8.67	-1.42	0	0
	CO296	Connected member	-21.7	8.86	1.46	0	0
21	CO297	Main member	-11.01	2.62	-10.71	12.27	7.31
	CO297	Connected member	-46.26	16.09	-1.49	0	0
	CO297	Connected member	21.72	-9.52	1.41	0	0
21	CO298	Main member	-12.11	2.58	-10.66	12.56	7.41
	CO298	Connected member	-47.66	16.11	-1.5	0	0
	CO298	Connected member	21.48	-9.52	1.41	0	0
21	CO299	Main member	-11.56	2.68	-10.66	12.52	7.65



::LAV/team::

Page: 47/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO299	Connected member	-46.4	16.09	-1.49	0	0
	CO299	Connected member	21.46	-9.52	1.41	0	0
	CO300	Main member	-9.78	2.56	-10.68	12.88	7.5
21	CO300	Connected member	-48.18	16.11	-1.5	0	0
	CO300	Connected member	21.98	-9.51	1.41	0	0
	CO301	Main member	-19.11	2.02	-18.54	21.23	5.6
21	CO301	Connected member	-26.04	23.55	-1.44	0	0
	CO301	Connected member	12.23	-17.28	1.39	0.01	0
	CO302	Main member	-44.21	0.01	8.7	-8.49	-0.29
21	CO302	Connected member	13.01	-8.66	-1.42	0	0
	CO302	Connected member	-18.89	8.85	1.46	0	0
	CO303	Main member	-56.35	0.03	8.62	-8.14	-0.32
21	CO303	Connected member	13.44	-8.66	-1.42	0	0
	CO303	Connected member	-23.09	8.87	1.47	0	0
	CO304	Main member	-45.86	0.03	8.62	-8.31	-0.31
21	CO304	Connected member	14.35	-8.65	-1.42	0	0
	CO304	Connected member	-20.48	8.86	1.46	0	0
	CO305	Main member	-57.84	0	8.7	-8.3	-0.33
21	CO305	Connected member	11.47	-8.67	-1.42	0	0
	CO305	Connected member	-21.98	8.87	1.46	0	0
	CO306	Main member	-12.12	2.62	-10.72	12.3	7.31
21	CO306	Connected member	-46.34	16.09	-1.49	0	0
	CO306	Connected member	21.42	-9.52	1.41	0	0
	CO307	Main member	-13.23	2.58	-10.67	12.59	7.41
21	CO307	Connected member	-47.74	16.11	-1.5	0	0
	CO307	Connected member	21.19	-9.52	1.41	0	0
	CO308	Main member	-12.68	2.68	-10.67	12.55	7.65
21	CO308	Connected member	-46.49	16.09	-1.49	0	0
	CO308	Connected member	21.17	-9.52	1.41	0	0
	CO309	Main member	-10.89	2.56	-10.68	12.91	7.5
21	CO309	Connected member	-48.27	16.11	-1.5	0	0
	CO309	Connected member	21.69	-9.52	1.41	0	0
	CO310	Main member	-20.22	2.02	-18.54	21.27	5.6
21	CO310	Connected member	-26.13	23.55	-1.44	0	0
	CO310	Connected member	11.94	-17.29	1.4	0.01	0
	CO311	Main member	-45.32	0.01	8.69	-8.47	-0.29
21	CO311	Connected member	12.91	-8.66	-1.42	0	0
	CO311	Connected member	-19.17	8.85	1.46	0	0
	CO312	Main member	-57.46	0.03	8.62	-8.13	-0.32
21	CO312	Connected member	13.34	-8.66	-1.42	0	0
	CO312	Connected member	-23.37	8.87	1.47	0	0
	CO313	Main member	-13.83	0.02	-0.07	0.46	0.07
21	CO313	Connected member	-2.62	0	-1.07	0	0
	CO313	Connected member	-4.77	0	1.08	0	0
	CO314	Main member	-15.08	0.02	-0.09	0.41	0.03
21	CO314	Connected member	-2.6	0	-1.07	0	0
	CO314	Connected member	-5.04	0	1.08	0	0
	CO315	Main member	-15.33	0.01	-0.09	0.39	0.02
21	CO315	Connected member	-2.59	0	-1.07	0	0
	CO315	Connected member	-5.09	0	1.08	0	0
	CO316	Main member	-14.08	0.02	-0.07	0.44	0.06
21	CO316	Connected member	-2.61	0	-1.07	0	0
	CO316	Connected member	-4.82	0	1.08	0	0
	CO317	Main member	-15.67	0.01	-0.1	0.36	-0.01
21	CO317	Connected member	-2.53	0	-1.07	0	0
	CO317	Connected member	-5.16	0	1.08	0	0
	CO318	Main member	-16.92	0	-0.12	0.3	-0.04
21	CO318	Connected member	-2.51	0	-1.07	0	0
	CO318	Connected member	-5.44	0	1.08	0	0
	CO319	Main member	-17.17	0	-0.12	0.29	-0.05
21	CO319	Connected member	-2.5	0	-1.07	0	0
	CO319	Connected member	-5.49	0	1.08	0	0
	CO320	Main member	-15.92	0.01	-0.11	0.34	-0.02
21	CO320	Connected member	-2.52	0	-1.07	0	0
	CO320	Connected member	-5.22	0	1.08	0	0
	CO321	Main member	-17.38	0	-0.13	0.27	-0.06
21	CO321	Connected member	-2.49	0	-1.07	0	0
	CO321	Connected member	-5.53	0	1.08	0	0
	CO322	Main member	-18.49	0	-0.13	0.3	-0.06
21	CO322	Connected member	-2.59	0	-1.07	0	0
	CO322	Connected member	-5.82	0	1.08	0	0
	CO323	Main member	-17.62	0	-0.13	0.26	-0.07
21	CO323	Connected member	-2.48	0	-1.07	0	0
	CO323	Connected member	-5.59	0	1.08	0	0
	CO324	Main member	-18.74	0	-0.13	0.28	-0.07
21	CO324	Connected member	-2.57	0	-1.07	0	0
	CO324	Connected member	-5.87	0	1.08	0	0
	CO325	Main member	-16.38	0	-0.11	0.31	-0.04
21	CO325	Connected member	-2.5	0	-1.07	0	0
	CO325	Connected member	-5.32	0	1.08	0	0
	CO326	Main member	-17.49	0	-0.12	0.34	-0.04
21	CO326	Connected member	-2.6	0	-1.07	0	0
	CO326	Connected member	-5.6	0	1.08	0	0
	CO327	Main member	-32.82	0	5.09	-4.99	-0.28
21	CO327	Connected member	8.34	-5.21	-1.06	0	0
	CO327	Connected member	-13.78	5.29	1.08	0	0
	CO328	Main member	-40.08	-0.01	5.12	-4.94	-0.29
21	CO328	Connected member	6.62	-5.22	-1.06	0	0
	CO328	Connected member	-14.7	5.29	1.08	0	0
	CO329	Main member	-12.47	1.56	-6.48	7.19	4.25
21	CO329	Connected member	-28.41	9.54	-1.09	0	0
	CO329	Connected member	11.55	-5.75	1.05	0	0
	CO330	Main member	-13.13	1.54	-6.45	7.35	4.32
21	CO330	Connected member	-29.36	9.54	-1.09	0	0



::LAV/team::

Page: 48/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO330	Connected member	11.47	-5.75	1.06	0	0
	CO331	Main member	-12.8	1.6	-6.45	7.33	4.47
	CO331	Connected member	-28.6	9.54	-1.09	0	0
21	CO331	Connected member	11.46	-5.75	1.06	0	0
	CO332	Main member	-11.74	1.54	-6.46	7.53	4.37
	CO332	Connected member	-29.77	9.54	-1.1	0	0
21	CO332	Connected member	11.83	-5.75	1.05	0	0
	CO333	Main member	-17.39	1.21	-11.15	12.45	3.27
	CO333	Connected member	-16.4	14.04	-1.07	0	0
21	CO333	Connected member	5.88	-10.41	1.05	0	0
	CO334	Main member	-32.52	-0.01	5.13	-5.06	-0.27
	CO334	Connected member	7.49	-5.21	-1.06	0	0
21	CO334	Connected member	-13	5.29	1.08	0	0
	CO335	Main member	-39.81	0	5.08	-4.86	-0.28
	CO335	Connected member	7.74	-5.21	-1.06	0	0
21	CO335	Connected member	-15.52	5.3	1.08	0	0
	CO336	Main member	-33.93	0	5.09	-4.97	-0.28
	CO336	Connected member	8.24	-5.21	-1.06	0	0
21	CO336	Connected member	-14.06	5.29	1.08	0	0
	CO337	Main member	-41.18	-0.01	5.12	-4.92	-0.29
	CO337	Connected member	6.52	-5.22	-1.06	0	0
21	CO337	Connected member	-14.98	5.29	1.08	0	0
	CO338	Main member	-13.59	1.56	-6.48	7.21	4.26
	CO338	Connected member	-28.5	9.54	-1.09	0	0
21	CO338	Connected member	11.26	-5.75	1.06	0	0
	CO339	Main member	-14.25	1.54	-6.45	7.38	4.32
	CO339	Connected member	-29.45	9.54	-1.09	0	0
21	CO339	Connected member	11.18	-5.75	1.06	0	0
	CO340	Main member	-13.92	1.6	-6.45	7.36	4.47
	CO340	Connected member	-28.69	9.54	-1.09	0	0
21	CO340	Connected member	11.17	-5.75	1.06	0	0
	CO341	Main member	-12.86	1.54	-6.46	7.56	4.37
	CO341	Connected member	-29.86	9.54	-1.1	0	0
21	CO341	Connected member	11.54	-5.75	1.06	0	0
	CO342	Main member	-18.5	1.21	-11.16	12.48	3.27
	CO342	Connected member	-16.49	14.04	-1.07	0	0
21	CO342	Connected member	5.59	-10.41	1.05	0	0
	CO343	Main member	-33.63	-0.01	5.12	-5.04	-0.27
	CO343	Connected member	7.39	-5.21	-1.06	0	0
21	CO343	Connected member	-13.28	5.29	1.08	0	0
	CO344	Main member	-40.92	0.01	5.07	-4.84	-0.28
	CO344	Connected member	7.64	-5.21	-1.06	0	0
21	CO344	Connected member	-15.81	5.3	1.08	0	0
	CO345	Main member	-33.07	0	5.08	-5	-0.29
	CO345	Connected member	8.36	-5.21	-1.06	0	0
21	CO345	Connected member	-13.84	5.29	1.08	0	0
	CO346	Main member	-40.33	-0.02	5.11	-4.94	-0.3
	CO346	Connected member	6.64	-5.22	-1.06	0	0
21	CO346	Connected member	-14.75	5.29	1.08	0	0
	CO347	Main member	-12.72	1.56	-6.48	7.16	4.24
	CO347	Connected member	-28.43	9.54	-1.09	0	0
21	CO347	Connected member	11.51	-5.75	1.06	0	0
	CO348	Main member	-13.38	1.54	-6.45	7.33	4.3
	CO348	Connected member	-29.37	9.54	-1.09	0	0
21	CO348	Connected member	11.43	-5.75	1.06	0	0
	CO349	Main member	-13.05	1.6	-6.45	7.31	4.46
	CO349	Connected member	-28.61	9.54	-1.09	0	0
21	CO349	Connected member	11.43	-5.75	1.06	0	0
	CO350	Main member	-11.99	1.54	-6.46	7.51	4.36
	CO350	Connected member	-29.79	9.54	-1.1	0	0
21	CO350	Connected member	11.8	-5.75	1.05	0	0
	CO351	Main member	-17.64	1.21	-11.16	12.42	3.26
	CO351	Connected member	-16.41	14.04	-1.07	0	0
21	CO351	Connected member	5.83	-10.41	1.05	0	0
	CO352	Main member	-32.78	-0.01	5.12	-5.07	-0.28
	CO352	Connected member	7.5	-5.21	-1.06	0	0
21	CO352	Connected member	-13.06	5.29	1.08	0	0
	CO353	Main member	-40.06	0	5.07	-4.87	-0.29
	CO353	Connected member	7.75	-5.21	-1.06	0	0
21	CO353	Connected member	-15.58	5.3	1.08	0	0
	CO354	Main member	-34.18	0	5.08	-4.98	-0.29
	CO354	Connected member	8.26	-5.21	-1.06	0	0
21	CO354	Connected member	-14.12	5.29	1.08	0	0
	CO355	Main member	-41.44	-0.02	5.11	-4.92	-0.3
	CO355	Connected member	6.54	-5.22	-1.06	0	0
21	CO355	Connected member	-15.04	5.29	1.08	0	0
	CO356	Main member	-13.83	1.56	-6.49	7.19	4.24
	CO356	Connected member	-28.52	9.54	-1.09	0	0
21	CO356	Connected member	11.22	-5.75	1.06	0	0
	CO357	Main member	-14.49	1.54	-6.46	7.36	4.31
	CO357	Connected member	-29.46	9.54	-1.09	0	0
21	CO357	Connected member	11.15	-5.75	1.06	0	0
	CO358	Main member	-14.16	1.6	-6.45	7.34	4.46
	CO358	Connected member	-28.7	9.54	-1.09	0	0
21	CO358	Connected member	11.14	-5.75	1.06	0	0
	CO359	Main member	-13.1	1.54	-6.46	7.54	4.36
	CO359	Connected member	-29.88	9.54	-1.1	0	0
21	CO359	Connected member	11.51	-5.75	1.06	0	0
	CO360	Main member	-18.75	1.21	-11.16	12.45	3.26
	CO360	Connected member	-16.5	14.04	-1.07	0	0
21	CO360	Connected member	5.55	-10.41	1.05	0	0
	CO361	Main member	-33.89	-0.01	5.12	-5.05	-0.28
	CO361	Connected member	7.4	-5.21	-1.06	0	0
	CO361	Connected member	-13.34	5.29	1.08	0	0



::LAV/team::

Page: 49/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO362	Main member	-41.17	0	5.07	-4.85	-0.29
	CO362	Connected member	7.65	-5.21	-1.06	0	0
	CO362	Connected member	-15.86	5.3	1.08	0	0
21	CO363	Main member	-31.81	0.01	5.1	-4.97	-0.26
	CO363	Connected member	8.32	-5.21	-1.06	0	0
	CO363	Connected member	-13.56	5.29	1.08	0	0
21	CO364	Main member	-39.06	-0.01	5.13	-4.92	-0.27
	CO364	Connected member	6.6	-5.22	-1.06	0	0
	CO364	Connected member	-14.47	5.29	1.08	0	0
21	CO365	Main member	-11.49	1.57	-6.47	7.25	4.28
	CO365	Connected member	-28.36	9.53	-1.09	0	0
	CO365	Connected member	11.72	-5.75	1.05	0	0
21	CO366	Main member	-12.14	1.55	-6.44	7.41	4.35
	CO366	Connected member	-29.3	9.54	-1.09	0	0
	CO366	Connected member	11.64	-5.75	1.06	0	0
21	CO367	Main member	-11.81	1.6	-6.44	7.39	4.5
	CO367	Connected member	-28.54	9.54	-1.09	0	0
	CO367	Connected member	11.64	-5.75	1.06	0	0
21	CO368	Main member	-10.75	1.54	-6.45	7.58	4.4
	CO368	Connected member	-29.72	9.54	-1.1	0	0
	CO368	Connected member	12.01	-5.74	1.05	0	0
21	CO369	Main member	-16.39	1.21	-11.15	12.51	3.3
	CO369	Connected member	-16.37	14.04	-1.07	0	0
	CO369	Connected member	6.06	-10.41	1.05	0	0
21	CO370	Main member	-31.51	-0.01	5.14	-5.04	-0.25
	CO370	Connected member	7.47	-5.21	-1.06	0	0
	CO370	Connected member	-12.78	5.29	1.08	0	0
21	CO371	Main member	-38.79	0.01	5.09	-4.84	-0.26
	CO371	Connected member	7.71	-5.21	-1.06	0	0
	CO371	Connected member	-15.3	5.29	1.08	0	0
21	CO372	Main member	-32.91	0.01	5.1	-4.95	-0.26
	CO372	Connected member	8.22	-5.21	-1.06	0	0
	CO372	Connected member	-13.84	5.29	1.08	0	0
21	CO373	Main member	-40.17	-0.01	5.13	-4.9	-0.27
	CO373	Connected member	6.5	-5.22	-1.06	0	0
	CO373	Connected member	-14.75	5.29	1.08	0	0
21	CO374	Main member	-12.6	1.57	-6.47	7.27	4.29
	CO374	Connected member	-28.45	9.54	-1.09	0	0
	CO374	Connected member	11.43	-5.75	1.06	0	0
21	CO375	Main member	-13.26	1.55	-6.44	7.44	4.35
	CO375	Connected member	-29.39	9.54	-1.09	0	0
	CO375	Connected member	11.36	-5.75	1.06	0	0
21	CO376	Main member	-12.93	1.6	-6.44	7.41	4.5
	CO376	Connected member	-28.63	9.54	-1.09	0	0
	CO376	Connected member	11.35	-5.75	1.06	0	0
21	CO377	Main member	-11.86	1.54	-6.45	7.61	4.4
	CO377	Connected member	-29.8	9.54	-1.1	0	0
	CO377	Connected member	11.72	-5.75	1.06	0	0
21	CO378	Main member	-17.5	1.21	-11.15	12.54	3.3
	CO378	Connected member	-16.46	14.04	-1.07	0	0
	CO378	Connected member	5.77	-10.41	1.05	0	0
21	CO379	Main member	-32.62	0	5.14	-5.02	-0.25
	CO379	Connected member	7.37	-5.21	-1.06	0	0
	CO379	Connected member	-13.06	5.29	1.08	0	0
21	CO380	Main member	-39.9	0.01	5.09	-4.82	-0.26
	CO380	Connected member	7.61	-5.21	-1.06	0	0
	CO380	Connected member	-15.58	5.3	1.08	0	0
21	CO381	Main member	-32.35	0	5.1	-4.98	-0.27
	CO381	Connected member	8.31	-5.21	-1.06	0	0
	CO381	Connected member	-13.68	5.29	1.08	0	0
21	CO382	Main member	-39.6	-0.01	5.13	-4.92	-0.27
	CO382	Connected member	6.59	-5.22	-1.06	0	0
	CO382	Connected member	-14.59	5.29	1.08	0	0
21	CO383	Main member	-12.02	1.57	-6.47	7.23	4.28
	CO383	Connected member	-28.39	9.53	-1.09	0	0
	CO383	Connected member	11.61	-5.75	1.05	0	0
21	CO384	Main member	-12.68	1.55	-6.44	7.39	4.34
	CO384	Connected member	-29.34	9.54	-1.09	0	0
	CO384	Connected member	11.54	-5.75	1.06	0	0
21	CO385	Main member	-12.35	1.6	-6.44	7.37	4.49
	CO385	Connected member	-28.57	9.54	-1.09	0	0
	CO385	Connected member	11.53	-5.75	1.06	0	0
21	CO386	Main member	-11.29	1.54	-6.45	7.57	4.39
	CO386	Connected member	-29.75	9.54	-1.1	0	0
	CO386	Connected member	11.9	-5.75	1.05	0	0
21	CO387	Main member	-16.93	1.21	-11.15	12.49	3.29
	CO387	Connected member	-16.39	14.04	-1.07	0	0
	CO387	Connected member	5.95	-10.41	1.05	0	0
21	CO388	Main member	-32.05	-0.01	5.13	-5.05	-0.25
	CO388	Connected member	7.46	-5.21	-1.06	0	0
	CO388	Connected member	-12.9	5.29	1.08	0	0
21	CO389	Main member	-39.34	0.01	5.09	-4.85	-0.27
	CO389	Connected member	7.71	-5.21	-1.06	0	0
	CO389	Connected member	-15.42	5.3	1.08	0	0
21	CO390	Main member	-32.6	0	5.09	-4.99	-0.28
	CO390	Connected member	8.33	-5.21	-1.06	0	0
	CO390	Connected member	-13.74	5.29	1.08	0	0
21	CO391	Main member	-39.86	-0.01	5.12	-4.93	-0.28
	CO391	Connected member	6.61	-5.22	-1.06	0	0
	CO391	Connected member	-14.65	5.29	1.08	0	0
21	CO392	Main member	-12.27	1.56	-6.48	7.21	4.26
	CO392	Connected member	-28.4	9.53	-1.09	0	0
	CO392	Connected member	11.58	-5.75	1.05	0	0
21	CO393	Main member	-12.93	1.54	-6.44	7.37	4.33



::LAV/team::

Page: 50/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO393	Connected member	-29.35	9.54	-1.09	0	0
	CO393	Connected member	11.5	-5.75	1.06	0	0
	CO394	Main member	-12.59	1.6	-6.44	7.35	4.48
21	CO394	Connected member	-28.59	9.54	-1.09	0	0
	CO394	Connected member	11.49	-5.75	1.06	0	0
	CO395	Main member	-11.53	1.54	-6.45	7.55	4.38
21	CO395	Connected member	-29.76	9.54	-1.1	0	0
	CO395	Connected member	11.86	-5.75	1.05	0	0
	CO396	Main member	-17.18	1.21	-11.15	12.47	3.28
21	CO396	Connected member	-16.4	14.04	-1.07	0	0
	CO396	Connected member	5.91	-10.41	1.05	0	0
	CO397	Main member	-32.31	-0.01	5.13	-5.05	-0.26
21	CO397	Connected member	7.47	-5.21	-1.06	0	0
	CO397	Connected member	-12.95	5.29	1.08	0	0
	CO398	Main member	-39.59	0.01	5.08	-4.86	-0.28
21	CO398	Connected member	7.72	-5.21	-1.06	0	0
	CO398	Connected member	-15.48	5.3	1.08	0	0
	CO399	Main member	-31.33	0.01	5.11	-4.96	-0.24
21	CO399	Connected member	8.29	-5.21	-1.06	0	0
	CO399	Connected member	-13.45	5.29	1.08	0	0
	CO400	Main member	-38.58	-0.01	5.14	-4.9	-0.25
21	CO400	Connected member	6.57	-5.22	-1.06	0	0
	CO400	Connected member	-14.37	5.29	1.08	0	0
	CO401	Main member	-11.03	1.57	-6.46	7.29	4.31
21	CO401	Connected member	-28.33	9.53	-1.09	0	0
	CO401	Connected member	11.79	-5.75	1.05	0	0
	CO402	Main member	-11.69	1.55	-6.43	7.45	4.37
21	CO402	Connected member	-29.28	9.54	-1.09	0	0
	CO402	Connected member	11.71	-5.75	1.06	0	0
	CO403	Main member	-11.36	1.61	-6.43	7.42	4.52
21	CO403	Connected member	-28.52	9.54	-1.09	0	0
	CO403	Connected member	11.7	-5.75	1.06	0	0
	CO404	Main member	-10.29	1.54	-6.44	7.62	4.42
21	CO404	Connected member	-29.69	9.54	-1.1	0	0
	CO404	Connected member	12.08	-5.74	1.05	0	0
	CO405	Main member	-15.93	1.22	-11.14	12.56	3.32
21	CO405	Connected member	-16.36	14.04	-1.07	0	0
	CO405	Connected member	6.14	-10.41	1.05	0	0
	CO406	Main member	-31.04	0	5.15	-5.03	-0.23
21	CO406	Connected member	7.44	-5.21	-1.06	0	0
	CO406	Connected member	-12.67	5.29	1.08	0	0
	CO407	Main member	-38.32	0.01	5.1	-4.83	-0.24
21	CO407	Connected member	7.68	-5.21	-1.06	0	0
	CO407	Connected member	-15.19	5.29	1.08	0	0
	CO408	Main member	-16.13	0.01	-0.11	0.33	-0.03
21	CO408	Connected member	-2.51	0	-1.07	0	0
	CO408	Connected member	-5.26	0	1.08	0	0
	CO409	Main member	-17.25	0.01	-0.11	0.35	-0.03
21	CO409	Connected member	-2.61	0	-1.07	0	0
	CO409	Connected member	-5.55	0	1.08	0	0
	CO410	Main member	-31.55	0.01	5.1	-4.96	-0.25
21	CO410	Connected member	8.3	-5.21	-1.06	0	0
	CO410	Connected member	-13.5	5.29	1.08	0	0
	CO411	Main member	-38.8	-0.01	5.14	-4.91	-0.26
21	CO411	Connected member	6.58	-5.22	-1.06	0	0
	CO411	Connected member	-14.41	5.29	1.08	0	0
	CO412	Main member	-11.24	1.57	-6.47	7.27	4.3
21	CO412	Connected member	-28.34	9.53	-1.09	0	0
	CO412	Connected member	11.76	-5.75	1.05	0	0
	CO413	Main member	-11.9	1.55	-6.43	7.43	4.36
21	CO413	Connected member	-29.29	9.54	-1.09	0	0
	CO413	Connected member	11.68	-5.75	1.06	0	0
	CO414	Main member	-11.57	1.6	-6.43	7.41	4.51
21	CO414	Connected member	-28.53	9.54	-1.09	0	0
	CO414	Connected member	11.67	-5.75	1.06	0	0
	CO415	Main member	-10.5	1.54	-6.44	7.6	4.41
21	CO415	Connected member	-29.7	9.54	-1.1	0	0
	CO415	Connected member	12.04	-5.74	1.05	0	0
	CO416	Main member	-16.14	1.21	-11.14	12.54	3.31
21	CO416	Connected member	-16.36	14.04	-1.07	0	0
	CO416	Connected member	6.1	-10.41	1.05	0	0
	CO417	Main member	-31.25	0	5.14	-5.03	-0.24
21	CO417	Connected member	7.45	-5.21	-1.06	0	0
	CO417	Connected member	-12.72	5.29	1.08	0	0
	CO418	Main member	-38.54	0.01	5.09	-4.83	-0.25
21	CO418	Connected member	7.7	-5.21	-1.06	0	0
	CO418	Connected member	-15.24	5.29	1.08	0	0
	CO419	Main member	-32.66	0.01	5.1	-4.94	-0.25
21	CO419	Connected member	8.2	-5.21	-1.06	0	0
	CO419	Connected member	-13.78	5.29	1.08	0	0
	CO420	Main member	-39.91	-0.01	5.14	-4.89	-0.26
21	CO420	Connected member	6.48	-5.22	-1.06	0	0
	CO420	Connected member	-14.7	5.29	1.08	0	0
	CO421	Main member	-12.36	1.57	-6.47	7.29	4.3
21	CO421	Connected member	-28.43	9.54	-1.09	0	0
	CO421	Connected member	11.47	-5.75	1.06	0	0
	CO422	Main member	-13.01	1.55	-6.44	7.46	4.36
21	CO422	Connected member	-29.38	9.54	-1.09	0	0
	CO422	Connected member	11.39	-5.75	1.06	0	0
	CO423	Main member	-12.68	1.61	-6.44	7.43	4.51
21	CO423	Connected member	-28.62	9.54	-1.09	0	0
	CO423	Connected member	11.38	-5.75	1.06	0	0
	CO424	Main member	-11.61	1.54	-6.45	7.63	4.41
21	CO424	Connected member	-29.79	9.54	-1.1	0	0



::LAV/team::

Page: 51/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO424	Connected member	11.76	-5.75	1.06	0	0
	CO425	Main member	-17.25	1.22	-11.15	12.57	3.31
	CO425	Connected member	-16.45	14.04	-1.07	0	0
21	CO425	Connected member	5.82	-10.41	1.05	0	0
	CO426	Main member	-32.36	0	5.14	-5.01	-0.24
	CO426	Connected member	7.35	-5.21	-1.06	0	0
21	CO426	Connected member	-13	5.29	1.08	0	0
	CO427	Main member	-39.64	0.01	5.09	-4.82	-0.25
	CO427	Connected member	7.6	-5.21	-1.06	0	0
21	CO427	Connected member	-15.52	5.3	1.08	0	0
	CO428	Main member	-31.08	0.01	5.11	-4.95	-0.23
	CO428	Connected member	8.27	-5.21	-1.06	0	0
21	CO428	Connected member	-13.4	5.29	1.08	0	0
	CO429	Main member	-38.32	-0.01	5.15	-4.9	-0.24
	CO429	Connected member	6.55	-5.22	-1.06	0	0
21	CO429	Connected member	-14.31	5.29	1.08	0	0
	CO430	Main member	-10.79	1.57	-6.46	7.31	4.32
	CO430	Connected member	-28.32	9.53	-1.09	0	0
21	CO430	Connected member	11.82	-5.75	1.05	0	0
	CO431	Main member	-11.44	1.55	-6.43	7.47	4.38
	CO431	Connected member	-29.27	9.54	-1.09	0	0
21	CO431	Connected member	11.75	-5.75	1.06	0	0
	CO432	Main member	-11.11	1.61	-6.43	7.45	4.53
	CO432	Connected member	-28.5	9.54	-1.09	0	0
21	CO432	Connected member	11.74	-5.75	1.06	0	0
	CO433	Main member	-10.04	1.54	-6.44	7.64	4.43
	CO433	Connected member	-29.68	9.54	-1.1	0	0
21	CO433	Connected member	12.11	-5.74	1.05	0	0
	CO434	Main member	-15.68	1.22	-11.14	12.59	3.33
	CO434	Connected member	-16.35	14.04	-1.07	0	0
21	CO434	Connected member	6.18	-10.41	1.05	0	0
	CO435	Main member	-30.78	0	5.15	-5.02	-0.22
	CO435	Connected member	7.42	-5.21	-1.06	0	0
21	CO435	Connected member	-12.62	5.29	1.08	0	0
	CO436	Main member	-38.06	0.01	5.1	-4.82	-0.24
	CO436	Connected member	7.67	-5.21	-1.06	0	0
21	CO436	Connected member	-15.14	5.29	1.08	0	0
	CO437	Main member	-14.75	0.02	-0.09	0.41	0.03
	CO437	Connected member	-2.58	0	-1.07	0	0
21	CO437	Connected member	-4.97	0	1.08	0	0
	CO438	Main member	-16.97	0.02	-0.09	0.45	0.03
	CO438	Connected member	-2.77	0	-1.07	0	0
21	CO438	Connected member	-5.53	0	1.08	0	0
	CO439	Main member	-16	0.01	-0.1	0.36	-0.01
	CO439	Connected member	-2.55	0	-1.07	0	0
21	CO439	Connected member	-5.24	0	1.08	0	0
	CO440	Main member	-18.22	0.01	-0.11	0.4	-0.01
	CO440	Connected member	-2.75	0	-1.07	0	0
21	CO440	Connected member	-5.8	0	1.08	0	0
	CO441	Main member	-16.25	0.01	-0.11	0.34	-0.02
	CO441	Connected member	-2.54	0	-1.07	0	0
21	CO441	Connected member	-5.29	0	1.08	0	0
	CO442	Main member	-18.47	0.01	-0.11	0.39	-0.02
	CO442	Connected member	-2.74	0	-1.07	0	0
21	CO442	Connected member	-5.86	0	1.08	0	0
	CO443	Main member	-15	0.01	-0.09	0.39	0.02
	CO443	Connected member	-2.56	0	-1.07	0	0
21	CO443	Connected member	-5.02	0	1.08	0	0
	CO444	Main member	-17.22	0.02	-0.1	0.44	0.02
	CO444	Connected member	-2.76	0	-1.07	0	0
21	CO444	Connected member	-5.58	0	1.08	0	0
	CO445	Main member	-31.4	0.01	5.11	-4.95	-0.23
	CO445	Connected member	8.25	-5.21	-1.06	0	0
21	CO445	Connected member	-13.47	5.29	1.08	0	0
	CO446	Main member	-38.65	0	5.15	-4.9	-0.24
	CO446	Connected member	6.53	-5.22	-1.06	0	0
21	CO446	Connected member	-14.39	5.29	1.08	0	0
	CO447	Main member	-11.12	1.57	-6.46	7.31	4.32
	CO447	Connected member	-28.34	9.53	-1.09	0	0
21	CO447	Connected member	11.75	-5.75	1.05	0	0
	CO448	Main member	-11.77	1.55	-6.43	7.47	4.38
	CO448	Connected member	-29.29	9.54	-1.09	0	0
21	CO448	Connected member	11.67	-5.75	1.06	0	0
	CO449	Main member	-11.44	1.61	-6.43	7.45	4.53
	CO449	Connected member	-28.52	9.54	-1.09	0	0
21	CO449	Connected member	11.67	-5.75	1.06	0	0
	CO450	Main member	-10.37	1.54	-6.44	7.64	4.43
	CO450	Connected member	-29.7	9.54	-1.1	0	0
21	CO450	Connected member	12.04	-5.74	1.05	0	0
	CO451	Main member	-16	1.22	-11.14	12.59	3.33
	CO451	Connected member	-16.37	14.04	-1.07	0	0
21	CO451	Connected member	6.1	-10.41	1.05	0	0
	CO452	Main member	-31.11	0	5.15	-5.02	-0.22
	CO452	Connected member	7.4	-5.21	-1.06	0	0
21	CO452	Connected member	-12.69	5.29	1.08	0	0
	CO453	Main member	-38.39	0.01	5.1	-4.82	-0.23
	CO453	Connected member	7.65	-5.21	-1.06	0	0
21	CO453	Connected member	-15.21	5.29	1.08	0	0
	CO454	Main member	-33.62	0.01	5.11	-4.91	-0.23
	CO454	Connected member	8.05	-5.21	-1.06	0	0
21	CO454	Connected member	-14.04	5.29	1.08	0	0
	CO455	Main member	-40.86	0	5.15	-4.86	-0.24
	CO455	Connected member	6.33	-5.22	-1.06	0	0
	CO455	Connected member	-14.95	5.29	1.08	0	0



::LAV/team::

Page: 52/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO456	Main member	-13.34	1.57	-6.47	7.36	4.32
	CO456	Connected member	-28.52	9.54	-1.09	0	0
	CO456	Connected member	11.17	-5.75	1.06	0	0
21	CO457	Main member	-13.99	1.55	-6.44	7.52	4.38
	CO457	Connected member	-29.47	9.54	-1.1	0	0
	CO457	Connected member	11.1	-5.75	1.06	0	0
21	CO458	Main member	-13.66	1.61	-6.44	7.5	4.53
	CO458	Connected member	-28.7	9.54	-1.09	0	0
	CO458	Connected member	11.09	-5.75	1.06	0	0
21	CO459	Main member	-12.59	1.54	-6.44	7.69	4.43
	CO459	Connected member	-29.88	9.54	-1.1	0	0
	CO459	Connected member	11.46	-5.75	1.06	0	0
21	CO460	Main member	-18.22	1.22	-11.15	12.65	3.33
	CO460	Connected member	-16.56	14.04	-1.07	0	0
	CO460	Connected member	5.53	-10.41	1.05	0	0
21	CO461	Main member	-33.32	0	5.15	-4.98	-0.22
	CO461	Connected member	7.2	-5.22	-1.06	0	0
	CO461	Connected member	-13.25	5.29	1.08	0	0
21	CO462	Main member	-40.6	0.01	5.1	-4.78	-0.23
	CO462	Connected member	7.45	-5.21	-1.06	0	0
	CO462	Connected member	-15.77	5.3	1.08	0	0
21	CO463	Main member	-31.66	0.01	5.11	-4.96	-0.24
	CO463	Connected member	8.27	-5.21	-1.06	0	0
	CO463	Connected member	-13.53	5.29	1.08	0	0
21	CO464	Main member	-38.91	-0.01	5.14	-4.9	-0.25
	CO464	Connected member	6.55	-5.22	-1.06	0	0
	CO464	Connected member	-14.44	5.29	1.08	0	0
21	CO465	Main member	-11.36	1.57	-6.46	7.29	4.31
	CO465	Connected member	-28.35	9.53	-1.09	0	0
	CO465	Connected member	11.71	-5.75	1.05	0	0
21	CO466	Main member	-12.01	1.55	-6.43	7.45	4.37
	CO466	Connected member	-29.3	9.54	-1.09	0	0
	CO466	Connected member	11.64	-5.75	1.06	0	0
21	CO467	Main member	-11.68	1.61	-6.43	7.43	4.52
	CO467	Connected member	-28.54	9.54	-1.09	0	0
	CO467	Connected member	11.63	-5.75	1.06	0	0
21	CO468	Main member	-10.62	1.54	-6.44	7.62	4.42
	CO468	Connected member	-29.71	9.54	-1.1	0	0
	CO468	Connected member	12	-5.74	1.05	0	0
21	CO469	Main member	-16.25	1.22	-11.14	12.56	3.32
	CO469	Connected member	-16.38	14.04	-1.07	0	0
	CO469	Connected member	6.06	-10.41	1.05	0	0
21	CO470	Main member	-31.36	0	5.15	-5.03	-0.23
	CO470	Connected member	7.41	-5.21	-1.06	0	0
	CO470	Connected member	-12.75	5.29	1.08	0	0
21	CO471	Main member	-38.64	0.01	5.1	-4.83	-0.24
	CO471	Connected member	7.66	-5.21	-1.06	0	0
	CO471	Connected member	-15.27	5.29	1.08	0	0
21	CO472	Main member	-33.88	0.01	5.11	-4.92	-0.24
	CO472	Connected member	8.07	-5.21	-1.06	0	0
	CO472	Connected member	-14.09	5.29	1.08	0	0
21	CO473	Main member	-41.12	-0.01	5.14	-4.86	-0.25
	CO473	Connected member	6.35	-5.22	-1.06	0	0
	CO473	Connected member	-15	5.29	1.08	0	0
21	CO474	Main member	-13.59	1.57	-6.47	7.34	4.31
	CO474	Connected member	-28.53	9.54	-1.09	0	0
	CO474	Connected member	11.13	-5.75	1.06	0	0
21	CO475	Main member	-14.24	1.55	-6.44	7.5	4.37
	CO475	Connected member	-29.48	9.54	-1.1	0	0
	CO475	Connected member	11.06	-5.75	1.06	0	0
21	CO476	Main member	-13.91	1.61	-6.44	7.48	4.52
	CO476	Connected member	-28.72	9.54	-1.09	0	0
	CO476	Connected member	11.05	-5.75	1.06	0	0
21	CO477	Main member	-12.84	1.54	-6.45	7.67	4.42
	CO477	Connected member	-29.89	9.54	-1.1	0	0
	CO477	Connected member	11.42	-5.75	1.06	0	0
21	CO478	Main member	-18.47	1.22	-11.15	12.62	3.32
	CO478	Connected member	-16.56	14.04	-1.07	0	0
	CO478	Connected member	5.49	-10.41	1.05	0	0
21	CO479	Main member	-33.58	0	5.15	-4.99	-0.23
	CO479	Connected member	7.22	-5.22	-1.06	0	0
	CO479	Connected member	-13.31	5.29	1.08	0	0
21	CO480	Main member	-40.86	0.01	5.1	-4.79	-0.24
	CO480	Connected member	7.46	-5.21	-1.06	0	0
	CO480	Connected member	-15.83	5.3	1.08	0	0
21	CO481	Main member	-30.39	0.01	5.13	-4.93	-0.21
	CO481	Connected member	8.23	-5.21	-1.06	0	0
	CO481	Connected member	-13.25	5.29	1.08	0	0
21	CO482	Main member	-37.63	0	5.16	-4.88	-0.22
	CO482	Connected member	6.51	-5.22	-1.06	0	0
	CO482	Connected member	-14.16	5.29	1.08	0	0
21	CO483	Main member	-10.13	1.57	-6.45	7.37	4.35
	CO483	Connected member	-28.28	9.53	-1.09	0	0
	CO483	Connected member	11.92	-5.75	1.05	0	0
21	CO484	Main member	-10.78	1.55	-6.42	7.52	4.41
	CO484	Connected member	-29.23	9.54	-1.09	0	0
	CO484	Connected member	11.85	-5.75	1.06	0	0
21	CO485	Main member	-10.45	1.61	-6.42	7.5	4.56
	CO485	Connected member	-28.47	9.54	-1.09	0	0
	CO485	Connected member	11.84	-5.75	1.06	0	0
21	CO486	Main member	-9.37	1.54	-6.43	7.69	4.46
	CO486	Connected member	-29.64	9.54	-1.1	0	0
	CO486	Connected member	12.21	-5.74	1.05	0	0
21	CO487	Main member	-15	1.22	-11.13	12.65	3.35



::LAV/team::

Page: 53/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO487	Connected member	-16.34	14.04	-1.07	0	0
	CO487	Connected member	6.29	-10.41	1.05	0	0
	CO488	Main member	-30.09	0	5.17	-5	-0.2
21	CO488	Connected member	7.38	-5.21	-1.06	0	0
	CO488	Connected member	-12.47	5.28	1.08	0	0
	CO489	Main member	-37.37	0.02	5.12	-4.8	-0.21
21	CO489	Connected member	7.62	-5.21	-1.06	0	0
	CO489	Connected member	-14.98	5.29	1.08	0	0
	CO490	Main member	-32.6	0.02	5.12	-4.89	-0.21
21	CO490	Connected member	8.03	-5.21	-1.06	0	0
	CO490	Connected member	-13.81	5.29	1.08	0	0
	CO491	Main member	-39.84	0	5.16	-4.84	-0.22
21	CO491	Connected member	6.31	-5.22	-1.06	0	0
	CO491	Connected member	-14.72	5.29	1.08	0	0
	CO492	Main member	-12.35	1.57	-6.46	7.42	4.35
21	CO492	Connected member	-28.46	9.54	-1.09	0	0
	CO492	Connected member	11.34	-5.75	1.06	0	0
	CO493	Main member	-13	1.55	-6.43	7.58	4.41
21	CO493	Connected member	-29.41	9.54	-1.1	0	0
	CO493	Connected member	11.27	-5.75	1.06	0	0
	CO494	Main member	-12.67	1.61	-6.43	7.55	4.56
21	CO494	Connected member	-28.65	9.54	-1.09	0	0
	CO494	Connected member	11.26	-5.75	1.06	0	0
	CO495	Main member	-11.59	1.54	-6.43	7.74	4.46
21	CO495	Connected member	-29.82	9.54	-1.1	0	0
	CO495	Connected member	11.64	-5.75	1.06	0	0
	CO496	Main member	-17.22	1.22	-11.14	12.71	3.36
21	CO496	Connected member	-16.52	14.04	-1.07	0	0
	CO496	Connected member	5.72	-10.41	1.05	0	0
	CO497	Main member	-32.3	0.01	5.16	-4.96	-0.2
21	CO497	Connected member	7.18	-5.22	-1.06	0	0
	CO497	Connected member	-13.03	5.29	1.08	0	0
	CO498	Main member	-39.58	0.02	5.11	-4.76	-0.21
21	CO498	Connected member	7.43	-5.21	-1.06	0	0
	CO498	Connected member	-15.55	5.3	1.08	0	0
	CO499	Main member	-30.13	0.02	5.13	-4.92	-0.2
21	CO499	Connected member	8.21	-5.21	-1.06	0	0
	CO499	Connected member	-13.19	5.29	1.08	0	0
	CO500	Main member	-37.37	0	5.17	-4.87	-0.21
21	CO500	Connected member	6.5	-5.22	-1.06	0	0
	CO500	Connected member	-14.1	5.29	1.08	0	0
	CO501	Main member	-9.88	1.57	-6.45	7.39	4.36
21	CO501	Connected member	-28.27	9.53	-1.09	0	0
	CO501	Connected member	11.96	-5.74	1.05	0	0
	CO502	Main member	-10.53	1.55	-6.41	7.54	4.42
21	CO502	Connected member	-29.22	9.54	-1.09	0	0
	CO502	Connected member	11.89	-5.75	1.06	0	0
	CO503	Main member	-10.2	1.61	-6.41	7.52	4.57
21	CO503	Connected member	-28.46	9.54	-1.09	0	0
	CO503	Connected member	11.88	-5.75	1.06	0	0
	CO504	Main member	-9.13	1.54	-6.42	7.71	4.47
21	CO504	Connected member	-29.63	9.54	-1.1	0	0
	CO504	Connected member	12.25	-5.74	1.05	0	0
	CO505	Main member	-14.75	1.22	-11.12	12.68	3.36
21	CO505	Connected member	-16.33	14.04	-1.07	0	0
	CO505	Connected member	6.33	-10.41	1.05	0	0
	CO506	Main member	-29.83	0.01	5.17	-4.99	-0.19
21	CO506	Connected member	7.36	-5.21	-1.06	0	0
	CO506	Connected member	-12.41	5.28	1.08	0	0
	CO507	Main member	-37.11	0.02	5.12	-4.79	-0.2
21	CO507	Connected member	7.61	-5.21	-1.06	0	0
	CO507	Connected member	-14.93	5.29	1.08	0	0
	CO508	Main member	-32.35	0.02	5.13	-4.88	-0.2
21	CO508	Connected member	8.02	-5.21	-1.06	0	0
	CO508	Connected member	-13.75	5.29	1.08	0	0
	CO509	Main member	-39.58	0	5.16	-4.83	-0.21
21	CO509	Connected member	6.3	-5.22	-1.06	0	0
	CO509	Connected member	-14.66	5.29	1.08	0	0
	CO510	Main member	-12.11	1.57	-6.46	7.44	4.36
21	CO510	Connected member	-28.45	9.54	-1.09	0	0
	CO510	Connected member	11.38	-5.75	1.06	0	0
	CO511	Main member	-12.75	1.55	-6.42	7.6	4.42
21	CO511	Connected member	-29.4	9.54	-1.1	0	0
	CO511	Connected member	11.31	-5.75	1.06	0	0
	CO512	Main member	-12.42	1.61	-6.42	7.57	4.57
21	CO512	Connected member	-28.63	9.54	-1.09	0	0
	CO512	Connected member	11.3	-5.75	1.06	0	0
	CO513	Main member	-11.34	1.54	-6.43	7.76	4.47
21	CO513	Connected member	-29.81	9.54	-1.1	0	0
	CO513	Connected member	11.68	-5.75	1.06	0	0
	CO514	Main member	-16.97	1.22	-11.13	12.73	3.37
21	CO514	Connected member	-16.52	14.04	-1.07	0	0
	CO514	Connected member	5.76	-10.41	1.05	0	0
	CO515	Main member	-32.05	0.01	5.17	-4.95	-0.19
21	CO515	Connected member	7.16	-5.22	-1.06	0	0
	CO515	Connected member	-12.97	5.29	1.08	0	0
	CO516	Main member	-39.32	0.02	5.12	-4.75	-0.2
21	CO516	Connected member	7.41	-5.21	-1.06	0	0
	CO516	Connected member	-15.49	5.3	1.08	0	0
	CO517	Main member	-39.41	0.02	8.65	-8.49	-0.32
21	CO517	Connected member	15.31	-8.65	-1.05	0	0
	CO517	Connected member	-18.41	8.84	1.08	0	0
	CO518	Main member	-51.39	0	8.73	-8.49	-0.34
21	CO518	Connected member	12.43	-8.66	-1.05	0	0



::LAV/team::

Page: 54/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO518	Connected member	-19.91	8.85	1.08	0	0
	CO519	Main member	-5.73	2.61	-10.67	12.17	7.31
	CO519	Connected member	-45.21	16.08	-1.1	0	0
21	CO519	Connected member	23.38	-9.5	1.04	0	0
	CO520	Main member	-6.83	2.57	-10.62	12.46	7.41
	CO520	Connected member	-46.62	16.09	-1.1	0	0
21	CO520	Connected member	23.15	-9.51	1.04	0	0
	CO521	Main member	-6.28	2.67	-10.62	12.41	7.65
	CO521	Connected member	-45.36	16.08	-1.1	0	0
21	CO521	Connected member	23.13	-9.51	1.04	0	0
	CO522	Main member	-4.49	2.55	-10.64	12.77	7.5
	CO522	Connected member	-47.14	16.1	-1.1	0	0
21	CO522	Connected member	23.65	-9.5	1.04	0	0
	CO523	Main member	-13.81	2.01	-18.5	21.15	5.6
	CO523	Connected member	-25.06	23.53	-1.05	0	0
21	CO523	Connected member	13.93	-17.26	1.02	0.01	0
	CO524	Main member	-38.87	0	8.72	-8.66	-0.3
	CO524	Connected member	13.87	-8.65	-1.05	0	0
21	CO524	Connected member	-17.1	8.84	1.08	0	0
	CO525	Main member	-51	0.03	8.65	-8.31	-0.33
	CO525	Connected member	14.29	-8.65	-1.05	0	0
21	CO525	Connected member	-21.3	8.86	1.08	0	0
	CO526	Main member	-40.7	0.02	8.63	-8.5	-0.35
	CO526	Connected member	15.36	-8.65	-1.05	0	0
21	CO526	Connected member	-18.7	8.84	1.08	0	0
	CO527	Main member	-52.69	-0.01	8.71	-8.49	-0.37
	CO527	Connected member	12.47	-8.66	-1.05	0	0
21	CO527	Connected member	-20.2	8.85	1.08	0	0
	CO528	Main member	-6.96	2.61	-10.69	12.08	7.26
	CO528	Connected member	-45.35	16.08	-1.1	0	0
21	CO528	Connected member	23.21	-9.51	1.04	0	0
	CO529	Main member	-8.07	2.57	-10.64	12.37	7.37
	CO529	Connected member	-46.74	16.09	-1.1	0	0
21	CO529	Connected member	22.97	-9.51	1.04	0	0
	CO530	Main member	-7.52	2.67	-10.64	12.33	7.61
	CO530	Connected member	-45.49	16.08	-1.1	0	0
21	CO530	Connected member	22.95	-9.51	1.04	0	0
	CO531	Main member	-5.74	2.55	-10.65	12.69	7.46
	CO531	Connected member	-47.27	16.1	-1.1	0	0
21	CO531	Connected member	23.47	-9.5	1.04	0	0
	CO532	Main member	-15.07	2.01	-18.51	21.04	5.56
	CO532	Connected member	-25.13	23.54	-1.05	0	0
21	CO532	Connected member	13.73	-17.27	1.02	0.01	0
	CO533	Main member	-40.16	0	8.7	-8.67	-0.33
	CO533	Connected member	13.92	-8.65	-1.05	0	0
21	CO533	Connected member	-17.39	8.84	1.08	0	0
	CO534	Main member	-52.3	0.02	8.63	-8.32	-0.36
	CO534	Connected member	14.34	-8.65	-1.05	0	0
21	CO534	Connected member	-21.59	8.86	1.08	0	0
	CO535	Main member	-40.96	0.01	8.63	-8.51	-0.36
	CO535	Connected member	15.38	-8.65	-1.05	0	0
21	CO535	Connected member	-18.76	8.85	1.08	0	0
	CO536	Main member	-52.95	-0.01	8.7	-8.5	-0.37
	CO536	Connected member	12.49	-8.66	-1.05	0	0
21	CO536	Connected member	-20.26	8.85	1.08	0	0
	CO537	Main member	-7.2	2.61	-10.69	12.05	7.25
	CO537	Connected member	-45.38	16.08	-1.1	0	0
21	CO537	Connected member	23.19	-9.51	1.04	0	0
	CO538	Main member	-8.31	2.57	-10.64	12.35	7.36
	CO538	Connected member	-46.77	16.09	-1.1	0	0
21	CO538	Connected member	22.95	-9.51	1.04	0	0
	CO539	Main member	-7.76	2.67	-10.64	12.3	7.6
	CO539	Connected member	-45.52	16.08	-1.1	0	0
21	CO539	Connected member	22.93	-9.51	1.04	0	0
	CO540	Main member	-5.98	2.55	-10.66	12.67	7.45
	CO540	Connected member	-47.3	16.1	-1.1	0	0
21	CO540	Connected member	23.45	-9.5	1.04	0	0
	CO541	Main member	-15.32	2.01	-18.51	21.01	5.55
	CO541	Connected member	-25.15	23.54	-1.05	0	0
21	CO541	Connected member	13.69	-17.27	1.02	0.01	0
	CO542	Main member	-40.42	0	8.7	-8.67	-0.34
	CO542	Connected member	13.94	-8.65	-1.05	0	0
21	CO542	Connected member	-17.45	8.84	1.08	0	0
	CO543	Main member	-52.56	0.02	8.62	-8.32	-0.37
	CO543	Connected member	14.36	-8.65	-1.05	0	0
21	CO543	Connected member	-21.65	8.86	1.08	0	0
	CO544	Main member	-39.67	0.02	8.65	-8.5	-0.33
	CO544	Connected member	15.33	-8.65	-1.05	0	0
21	CO544	Connected member	-18.47	8.84	1.08	0	0
	CO545	Main member	-51.65	-0.01	8.72	-8.49	-0.34
	CO545	Connected member	12.45	-8.66	-1.05	0	0
21	CO545	Connected member	-19.97	8.85	1.08	0	0
	CO546	Main member	-5.97	2.61	-10.68	12.14	7.3
	CO546	Connected member	-45.24	16.08	-1.1	0	0
21	CO546	Connected member	23.35	-9.5	1.04	0	0
	CO547	Main member	-7.07	2.57	-10.63	12.44	7.4
	CO547	Connected member	-46.65	16.09	-1.1	0	0
21	CO547	Connected member	23.12	-9.51	1.04	0	0
	CO548	Main member	-6.52	2.67	-10.63	12.39	7.64
	CO548	Connected member	-45.39	16.08	-1.1	0	0
21	CO548	Connected member	23.1	-9.51	1.04	0	0
	CO549	Main member	-4.74	2.55	-10.64	12.75	7.49
	CO549	Connected member	-47.17	16.1	-1.1	0	0
	CO549	Connected member	23.62	-9.5	1.04	0	0



::LAV/team::

Page: 55/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO550	Main member	-14.06	2.01	-18.5	21.12	5.59
	CO550	Connected member	-25.07	23.53	-1.05	0	0
	CO550	Connected member	13.9	-17.26	1.02	0.01	0
21	CO551	Main member	-39.13	0	8.72	-8.66	-0.31
	CO551	Connected member	13.89	-8.65	-1.05	0	0
	CO551	Connected member	-17.16	8.84	1.08	0	0
21	CO552	Main member	-51.26	0.02	8.64	-8.31	-0.34
	CO552	Connected member	14.31	-8.65	-1.05	0	0
	CO552	Connected member	-21.36	8.86	1.08	0	0
21	CO553	Main member	-41.18	0.01	8.62	-8.51	-0.37
	CO553	Connected member	15.39	-8.65	-1.05	0	0
	CO553	Connected member	-18.81	8.85	1.08	0	0
21	CO554	Main member	-53.18	-0.01	8.7	-8.5	-0.38
	CO554	Connected member	12.51	-8.66	-1.05	0	0
	CO554	Connected member	-20.31	8.85	1.08	0	0
21	CO555	Main member	-7.41	2.61	-10.69	12.03	7.24
	CO555	Connected member	-45.4	16.08	-1.1	0	0
	CO555	Connected member	23.16	-9.51	1.04	0	0
21	CO556	Main member	-8.52	2.57	-10.64	12.33	7.35
	CO556	Connected member	-46.8	16.09	-1.1	0	0
	CO556	Connected member	22.92	-9.51	1.04	0	0
21	CO557	Main member	-7.97	2.67	-10.64	12.28	7.59
	CO557	Connected member	-45.54	16.08	-1.1	0	0
	CO557	Connected member	22.91	-9.51	1.04	0	0
21	CO558	Main member	-6.19	2.55	-10.66	12.65	7.44
	CO558	Connected member	-47.32	16.1	-1.1	0	0
	CO558	Connected member	23.42	-9.5	1.04	0	0
21	CO559	Main member	-15.53	2.01	-18.51	20.98	5.54
	CO559	Connected member	-25.16	23.54	-1.05	0	0
	CO559	Connected member	13.67	-17.27	1.02	0.01	0
21	CO560	Main member	-40.65	0	8.69	-8.67	-0.35
	CO560	Connected member	13.95	-8.65	-1.05	0	0
	CO560	Connected member	-17.5	8.84	1.08	0	0
21	CO561	Main member	-52.79	0.02	8.62	-8.32	-0.37
	CO561	Connected member	14.38	-8.65	-1.05	0	0
	CO561	Connected member	-21.7	8.86	1.08	0	0
21	CO562	Main member	-42.29	0.01	8.62	-8.49	-0.37
	CO562	Connected member	15.29	-8.65	-1.05	0	0
	CO562	Connected member	-19.09	8.85	1.08	0	0
21	CO563	Main member	-54.28	-0.01	8.7	-8.48	-0.38
	CO563	Connected member	12.41	-8.66	-1.05	0	0
	CO563	Connected member	-20.59	8.86	1.08	0	0
21	CO564	Main member	-8.52	2.61	-10.7	12.06	7.24
	CO564	Connected member	-45.48	16.08	-1.1	0	0
	CO564	Connected member	22.87	-9.51	1.04	0	0
21	CO565	Main member	-9.63	2.57	-10.65	12.36	7.35
	CO565	Connected member	-46.88	16.1	-1.1	0	0
	CO565	Connected member	22.63	-9.51	1.04	0	0
21	CO566	Main member	-9.08	2.67	-10.65	12.31	7.59
	CO566	Connected member	-45.62	16.08	-1.1	0	0
	CO566	Connected member	22.61	-9.51	1.04	0	0
21	CO567	Main member	-7.3	2.55	-10.67	12.68	7.44
	CO567	Connected member	-47.4	16.1	-1.1	0	0
	CO567	Connected member	23.13	-9.51	1.04	0	0
21	CO568	Main member	-16.64	2.01	-18.52	21.01	5.55
	CO568	Connected member	-25.25	23.54	-1.05	0	0
	CO568	Connected member	13.38	-17.27	1.02	0.01	0
21	CO569	Main member	-41.75	0	8.69	-8.65	-0.35
	CO569	Connected member	13.85	-8.65	-1.05	0	0
	CO569	Connected member	-17.78	8.84	1.08	0	0
21	CO570	Main member	-53.89	0.02	8.61	-8.31	-0.37
	CO570	Connected member	14.28	-8.65	-1.05	0	0
	CO570	Connected member	-21.98	8.86	1.08	0	0
21	CO571	Main member	-41.44	0.01	8.62	-8.51	-0.38
	CO571	Connected member	15.41	-8.65	-1.05	0	0
	CO571	Connected member	-18.87	8.85	1.08	0	0
21	CO572	Main member	-53.44	-0.01	8.69	-8.5	-0.39
	CO572	Connected member	12.52	-8.66	-1.05	0	0
	CO572	Connected member	-20.37	8.85	1.08	0	0
21	CO573	Main member	-7.65	2.61	-10.69	12	7.23
	CO573	Connected member	-45.43	16.08	-1.1	0	0
	CO573	Connected member	23.14	-9.51	1.04	0	0
21	CO574	Main member	-8.77	2.57	-10.65	12.31	7.34
	CO574	Connected member	-46.83	16.1	-1.1	0	0
	CO574	Connected member	22.9	-9.51	1.04	0	0
21	CO575	Main member	-8.22	2.67	-10.64	12.26	7.57
	CO575	Connected member	-45.57	16.08	-1.1	0	0
	CO575	Connected member	22.88	-9.51	1.04	0	0
21	CO576	Main member	-6.44	2.55	-10.66	12.63	7.43
	CO576	Connected member	-47.35	16.1	-1.1	0	0
	CO576	Connected member	23.4	-9.5	1.04	0	0
21	CO577	Main member	-15.79	2.01	-18.51	20.95	5.53
	CO577	Connected member	-25.18	23.54	-1.05	0	0
	CO577	Connected member	13.63	-17.27	1.02	0.01	0
21	CO578	Main member	-40.91	-0.01	8.69	-8.67	-0.36
	CO578	Connected member	13.97	-8.65	-1.05	0	0
	CO578	Connected member	-17.55	8.84	1.08	0	0
21	CO579	Main member	-53.05	0.02	8.61	-8.33	-0.38
	CO579	Connected member	14.4	-8.65	-1.05	0	0
	CO579	Connected member	-21.76	8.86	1.08	0	0
21	CO580	Main member	-42.55	0.01	8.62	-8.5	-0.38
	CO580	Connected member	15.31	-8.65	-1.05	0	0
	CO580	Connected member	-19.15	8.85	1.08	0	0
21	CO581	Main member	-54.55	-0.01	8.69	-8.48	-0.39



::LAV/team::

Page: 56/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO581	Connected member	12.42	-8.66	-1.05	0	0
	CO581	Connected member	-20.65	8.86	1.08	0	0
	CO582	Main member	-8.77	2.61	-10.7	12.03	7.23
21	CO582	Connected member	-45.51	16.08	-1.1	0	0
	CO582	Connected member	22.85	-9.51	1.04	0	0
	CO583	Main member	-9.88	2.57	-10.65	12.33	7.34
21	CO583	Connected member	-46.91	16.1	-1.1	0	0
	CO583	Connected member	22.6	-9.51	1.04	0	0
	CO584	Main member	-9.33	2.67	-10.65	12.29	7.58
21	CO584	Connected member	-45.65	16.08	-1.1	0	0
	CO584	Connected member	22.59	-9.51	1.04	0	0
	CO585	Main member	-7.55	2.55	-10.67	12.66	7.43
21	CO585	Connected member	-47.43	16.1	-1.1	0	0
	CO585	Connected member	23.1	-9.51	1.04	0	0
	CO586	Main member	-16.89	2.01	-18.52	20.98	5.54
21	CO586	Connected member	-25.27	23.54	-1.05	0	0
	CO586	Connected member	13.34	-17.27	1.02	0.01	0
	CO587	Main member	-42.01	0	8.69	-8.66	-0.36
21	CO587	Connected member	13.87	-8.65	-1.05	0	0
	CO587	Connected member	-17.84	8.84	1.08	0	0
	CO588	Main member	-54.15	0.02	8.61	-8.31	-0.38
21	CO588	Connected member	14.3	-8.65	-1.05	0	0
	CO588	Connected member	-22.04	8.86	1.08	0	0
	CO589	Main member	-40.15	0.02	8.64	-8.5	-0.35
21	CO589	Connected member	15.36	-8.65	-1.05	0	0
	CO589	Connected member	-18.58	8.84	1.08	0	0
	CO590	Main member	-52.14	-0.01	8.71	-8.49	-0.36
21	CO590	Connected member	12.48	-8.66	-1.05	0	0
	CO590	Connected member	-20.08	8.85	1.08	0	0
	CO591	Main member	-6.42	2.61	-10.68	12.1	7.27
21	CO591	Connected member	-45.3	16.08	-1.1	0	0
	CO591	Connected member	23.31	-9.5	1.04	0	0
	CO592	Main member	-7.53	2.57	-10.63	12.39	7.38
21	CO592	Connected member	-46.7	16.09	-1.1	0	0
	CO592	Connected member	23.07	-9.51	1.04	0	0
	CO593	Main member	-6.98	2.67	-10.63	12.35	7.62
21	CO593	Connected member	-45.44	16.08	-1.1	0	0
	CO593	Connected member	23.05	-9.51	1.04	0	0
	CO594	Main member	-5.2	2.55	-10.65	12.71	7.47
21	CO594	Connected member	-47.22	16.1	-1.1	0	0
	CO594	Connected member	23.57	-9.5	1.04	0	0
	CO595	Main member	-14.53	2.01	-18.5	21.06	5.57
21	CO595	Connected member	-25.1	23.53	-1.05	0	0
	CO595	Connected member	13.83	-17.26	1.02	0.01	0
	CO596	Main member	-39.61	0	8.71	-8.66	-0.33
21	CO596	Connected member	13.93	-8.65	-1.05	0	0
	CO596	Connected member	-17.27	8.84	1.08	0	0
	CO597	Main member	-51.75	0.02	8.63	-8.32	-0.35
21	CO597	Connected member	14.35	-8.65	-1.05	0	0
	CO597	Connected member	-21.47	8.86	1.08	0	0
	CO598	Main member	-41.26	0.02	8.64	-8.48	-0.35
21	CO598	Connected member	15.26	-8.65	-1.05	0	0
	CO598	Connected member	-18.86	8.85	1.08	0	0
	CO599	Main member	-53.24	-0.01	8.71	-8.48	-0.36
21	CO599	Connected member	12.38	-8.66	-1.05	0	0
	CO599	Connected member	-20.36	8.85	1.08	0	0
	CO600	Main member	-7.54	2.61	-10.69	12.13	7.28
21	CO600	Connected member	-45.38	16.08	-1.1	0	0
	CO600	Connected member	23.01	-9.51	1.04	0	0
	CO601	Main member	-8.64	2.57	-10.64	12.42	7.38
21	CO601	Connected member	-46.78	16.09	-1.1	0	0
	CO601	Connected member	22.78	-9.51	1.04	0	0
	CO602	Main member	-8.09	2.67	-10.64	12.37	7.62
21	CO602	Connected member	-45.53	16.08	-1.1	0	0
	CO602	Connected member	22.76	-9.51	1.04	0	0
	CO603	Main member	-6.31	2.55	-10.66	12.74	7.47
21	CO603	Connected member	-47.31	16.1	-1.1	0	0
	CO603	Connected member	23.28	-9.5	1.04	0	0
	CO604	Main member	-15.64	2.01	-18.51	21.09	5.57
21	CO604	Connected member	-25.19	23.54	-1.05	0	0
	CO604	Connected member	13.54	-17.27	1.02	0.01	0
	CO605	Main member	-40.72	0	8.71	-8.65	-0.33
21	CO605	Connected member	13.83	-8.65	-1.05	0	0
	CO605	Connected member	-17.55	8.84	1.08	0	0
	CO606	Main member	-52.86	0.02	8.63	-8.3	-0.35
21	CO606	Connected member	14.25	-8.65	-1.05	0	0
	CO606	Connected member	-21.75	8.86	1.08	0	0
	CO607	Main member	-39.89	0.02	8.64	-8.5	-0.34
21	CO607	Connected member	15.34	-8.65	-1.05	0	0
	CO607	Connected member	-18.52	8.84	1.08	0	0
	CO608	Main member	-51.88	-0.01	8.72	-8.49	-0.35
21	CO608	Connected member	12.46	-8.66	-1.05	0	0
	CO608	Connected member	-20.02	8.85	1.08	0	0
	CO609	Main member	-6.18	2.61	-10.68	12.12	7.29
21	CO609	Connected member	-45.27	16.08	-1.1	0	0
	CO609	Connected member	23.33	-9.5	1.04	0	0
	CO610	Main member	-7.28	2.57	-10.63	12.42	7.39
21	CO610	Connected member	-46.67	16.09	-1.1	0	0
	CO610	Connected member	23.1	-9.51	1.04	0	0
	CO611	Main member	-6.73	2.67	-10.63	12.37	7.63
21	CO611	Connected member	-45.41	16.08	-1.1	0	0
	CO611	Connected member	23.08	-9.51	1.04	0	0
	CO612	Main member	-4.95	2.55	-10.65	12.73	7.48
21	CO612	Connected member	-47.19	16.1	-1.1	0	0



::LAV/team::

Page: 57/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO612	Connected member	23.6	-9.5	1.04	0	0
	CO613	Main member	-14.28	2.01	-18.5	21.09	5.58
	CO613	Connected member	-25.08	23.53	-1.05	0	0
21	CO613	Connected member	13.87	-17.26	1.02	0.01	0
	CO614	Main member	-39.35	0	8.71	-8.66	-0.32
	CO614	Connected member	13.91	-8.65	-1.05	0	0
21	CO614	Connected member	-17.21	8.84	1.08	0	0
	CO615	Main member	-51.49	0.02	8.64	-8.31	-0.34
	CO615	Connected member	14.33	-8.65	-1.05	0	0
21	CO615	Connected member	-21.41	8.86	1.08	0	0
	CO616	Main member	-41	0.02	8.64	-8.48	-0.34
	CO616	Connected member	15.24	-8.65	-1.05	0	0
21	CO616	Connected member	-18.8	8.85	1.08	0	0
	CO617	Main member	-52.98	-0.01	8.72	-8.47	-0.35
	CO617	Connected member	12.36	-8.66	-1.05	0	0
21	CO617	Connected member	-20.3	8.85	1.08	0	0
	CO618	Main member	-7.29	2.61	-10.69	12.15	7.29
	CO618	Connected member	-45.35	16.08	-1.1	0	0
21	CO618	Connected member	23.04	-9.51	1.04	0	0
	CO619	Main member	-8.4	2.57	-10.64	12.44	7.39
	CO619	Connected member	-46.75	16.09	-1.1	0	0
21	CO619	Connected member	22.8	-9.51	1.04	0	0
	CO620	Main member	-7.84	2.67	-10.63	12.4	7.63
	CO620	Connected member	-45.5	16.08	-1.1	0	0
21	CO620	Connected member	22.79	-9.51	1.04	0	0
	CO621	Main member	-6.06	2.55	-10.65	12.76	7.48
	CO621	Connected member	-47.28	16.1	-1.1	0	0
21	CO621	Connected member	23.31	-9.5	1.04	0	0
	CO622	Main member	-15.38	2.01	-18.51	21.12	5.58
	CO622	Connected member	-25.17	23.54	-1.05	0	0
21	CO622	Connected member	13.58	-17.27	1.02	0.01	0
	CO623	Main member	-40.46	0	8.71	-8.64	-0.32
	CO623	Connected member	13.81	-8.65	-1.05	0	0
21	CO623	Connected member	-17.49	8.84	1.08	0	0
	CO624	Main member	-52.59	0.02	8.64	-8.3	-0.34
	CO624	Connected member	14.23	-8.65	-1.05	0	0
21	CO624	Connected member	-21.69	8.86	1.08	0	0
	CO625	Main member	-13.83	0.02	-0.07	0.46	0.07
	CO625	Connected member	-2.62	0	-1.07	0	0
21	CO625	Connected member	-4.77	0	1.08	0	0
	CO626	Main member	-14.75	0.02	-0.08	0.42	0.04
	CO626	Connected member	-2.6	0	-1.07	0	0
21	CO626	Connected member	-4.97	0	1.08	0	0
	CO627	Main member	-14.94	0.02	-0.09	0.41	0.03
	CO627	Connected member	-2.59	0	-1.07	0	0
21	CO627	Connected member	-5.01	0	1.08	0	0
	CO628	Main member	-14.01	0.02	-0.07	0.45	0.06
	CO628	Connected member	-2.61	0	-1.07	0	0
21	CO628	Connected member	-4.81	0	1.08	0	0
	CO629	Main member	-15.06	0.01	-0.09	0.39	0.02
	CO629	Connected member	-2.56	0	-1.07	0	0
21	CO629	Connected member	-5.03	0	1.08	0	0
	CO630	Main member	-15.98	0.01	-0.1	0.35	-0.01
	CO630	Connected member	-2.54	0	-1.07	0	0
21	CO630	Connected member	-5.23	0	1.08	0	0
	CO631	Main member	-16.17	0.01	-0.11	0.34	-0.02
	CO631	Connected member	-2.54	0	-1.07	0	0
21	CO631	Connected member	-5.27	0	1.08	0	0
	CO632	Main member	-15.24	0.01	-0.1	0.38	0.01
	CO632	Connected member	-2.55	0	-1.07	0	0
21	CO632	Connected member	-5.07	0	1.08	0	0
	CO633	Main member	-16.29	0.01	-0.11	0.33	-0.02
	CO633	Connected member	-2.53	0	-1.07	0	0
21	CO633	Connected member	-5.3	0	1.08	0	0
	CO634	Main member	-17.03	0.01	-0.11	0.35	-0.02
	CO634	Connected member	-2.6	0	-1.07	0	0
21	CO634	Connected member	-5.49	0	1.08	0	0
	CO635	Main member	-16.47	0.01	-0.11	0.32	-0.03
	CO635	Connected member	-2.52	0	-1.07	0	0
21	CO635	Connected member	-5.34	0	1.08	0	0
	CO636	Main member	-17.22	0.01	-0.11	0.34	-0.03
	CO636	Connected member	-2.59	0	-1.07	0	0
21	CO636	Connected member	-5.53	0	1.08	0	0
	CO637	Main member	-15.55	0.01	-0.1	0.36	0
	CO637	Connected member	-2.54	0	-1.07	0	0
21	CO637	Connected member	-5.14	0	1.08	0	0
	CO638	Main member	-16.29	0.01	-0.1	0.38	0
	CO638	Connected member	-2.6	0	-1.07	0	0
21	CO638	Connected member	-5.33	0	1.08	0	0
	CO639	Main member	-26.57	0.01	3.36	-3.19	-0.17
	CO639	Connected member	4.68	-3.48	-1.06	0	0
21	CO639	Connected member	-10.8	3.52	1.08	0	0
	CO640	Main member	-31.42	0	3.38	-3.14	-0.18
	CO640	Connected member	3.54	-3.49	-1.07	0	0
21	CO640	Connected member	-11.41	3.52	1.08	0	0
	CO641	Main member	-13.03	1.05	-4.35	4.95	2.86
	CO641	Connected member	-19.76	6.32	-1.09	0	0
21	CO641	Connected member	6.03	-3.84	1.06	0	0
	CO642	Main member	-13.46	1.03	-4.32	5.06	2.89
	CO642	Connected member	-20.43	6.32	-1.09	0	0
21	CO642	Connected member	6.01	-3.84	1.06	0	0
	CO643	Main member	-13.24	1.07	-4.32	5.04	3
	CO643	Connected member	-19.92	6.32	-1.09	0	0
21	CO643	Connected member	6	-3.84	1.06	0	0



::LAV/team::

Page: 58/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO644	Main member	-12.53	1.03	-4.33	5.16	2.93
	CO644	Connected member	-20.74	6.32	-1.09	0	0
	CO644	Connected member	6.27	-3.84	1.06	0	0
21	CO645	Main member	-16.29	0.82	-7.46	8.44	2.21
	CO645	Connected member	-11.84	9.33	-1.08	0	0
	CO645	Connected member	2.29	-6.96	1.06	0	0
21	CO646	Main member	-26.38	0	3.39	-3.23	-0.16
	CO646	Connected member	4.12	-3.48	-1.07	0	0
	CO646	Connected member	-10.28	3.52	1.08	0	0
21	CO647	Main member	-31.23	0.01	3.36	-3.1	-0.17
	CO647	Connected member	4.28	-3.48	-1.06	0	0
	CO647	Connected member	-11.96	3.52	1.08	0	0
21	CO648	Main member	-27.31	0.01	3.36	-3.17	-0.17
	CO648	Connected member	4.62	-3.48	-1.06	0	0
	CO648	Connected member	-10.99	3.52	1.08	0	0
21	CO649	Main member	-32.15	0	3.38	-3.12	-0.18
	CO649	Connected member	3.48	-3.49	-1.07	0	0
	CO649	Connected member	-11.6	3.52	1.08	0	0
21	CO650	Main member	-13.77	1.05	-4.35	4.97	2.86
	CO650	Connected member	-19.82	6.32	-1.09	0	0
	CO650	Connected member	5.84	-3.85	1.06	0	0
21	CO651	Main member	-14.2	1.03	-4.33	5.07	2.9
	CO651	Connected member	-20.49	6.32	-1.09	0	0
	CO651	Connected member	5.82	-3.85	1.06	0	0
21	CO652	Main member	-13.98	1.07	-4.33	5.06	3
	CO652	Connected member	-19.98	6.32	-1.09	0	0
	CO652	Connected member	5.81	-3.85	1.06	0	0
21	CO653	Main member	-13.27	1.03	-4.33	5.18	2.93
	CO653	Connected member	-20.8	6.32	-1.09	0	0
	CO653	Connected member	6.08	-3.84	1.06	0	0
21	CO654	Main member	-17.03	0.82	-7.46	8.46	2.21
	CO654	Connected member	-11.9	9.33	-1.08	0	0
	CO654	Connected member	2.1	-6.96	1.06	0	0
21	CO655	Main member	-27.12	0	3.39	-3.21	-0.16
	CO655	Connected member	4.05	-3.48	-1.07	0	0
	CO655	Connected member	-10.47	3.52	1.08	0	0
21	CO656	Main member	-31.97	0.01	3.35	-3.08	-0.17
	CO656	Connected member	4.22	-3.48	-1.06	0	0
	CO656	Connected member	-12.15	3.52	1.08	0	0
21	CO657	Main member	-26.76	0.01	3.36	-3.2	-0.18
	CO657	Connected member	4.69	-3.48	-1.06	0	0
	CO657	Connected member	-10.84	3.52	1.08	0	0
21	CO658	Main member	-31.6	0	3.38	-3.15	-0.18
	CO658	Connected member	3.55	-3.49	-1.07	0	0
	CO658	Connected member	-11.45	3.52	1.08	0	0
21	CO659	Main member	-13.21	1.04	-4.35	4.94	2.85
	CO659	Connected member	-19.76	6.32	-1.09	0	0
	CO659	Connected member	6	-3.85	1.06	0	0
21	CO660	Main member	-13.64	1.03	-4.33	5.04	2.89
	CO660	Connected member	-20.43	6.32	-1.09	0	0
	CO660	Connected member	5.98	-3.85	1.06	0	0
21	CO661	Main member	-13.42	1.07	-4.33	5.03	2.99
	CO661	Connected member	-19.92	6.32	-1.09	0	0
	CO661	Connected member	5.97	-3.85	1.06	0	0
21	CO662	Main member	-12.71	1.03	-4.33	5.15	2.92
	CO662	Connected member	-20.74	6.32	-1.09	0	0
	CO662	Connected member	6.24	-3.84	1.06	0	0
21	CO663	Main member	-16.48	0.81	-7.46	8.42	2.2
	CO663	Connected member	-11.84	9.33	-1.08	0	0
	CO663	Connected member	2.25	-6.96	1.06	0	0
21	CO664	Main member	-26.57	0	3.39	-3.23	-0.17
	CO664	Connected member	4.13	-3.48	-1.07	0	0
	CO664	Connected member	-10.32	3.52	1.08	0	0
21	CO665	Main member	-31.42	0.01	3.35	-3.11	-0.18
	CO665	Connected member	4.29	-3.48	-1.06	0	0
	CO665	Connected member	-12	3.52	1.08	0	0
21	CO666	Main member	-27.5	0.01	3.36	-3.18	-0.18
	CO666	Connected member	4.63	-3.48	-1.06	0	0
	CO666	Connected member	-11.03	3.52	1.08	0	0
21	CO667	Main member	-32.34	0	3.38	-3.13	-0.18
	CO667	Connected member	3.49	-3.49	-1.07	0	0
	CO667	Connected member	-11.64	3.52	1.08	0	0
21	CO668	Main member	-13.95	1.05	-4.35	4.96	2.85
	CO668	Connected member	-19.82	6.32	-1.09	0	0
	CO668	Connected member	5.81	-3.85	1.06	0	0
21	CO669	Main member	-14.39	1.03	-4.33	5.06	2.89
	CO669	Connected member	-20.49	6.32	-1.09	0	0
	CO669	Connected member	5.78	-3.85	1.06	0	0
21	CO670	Main member	-14.17	1.07	-4.33	5.05	2.99
	CO670	Connected member	-19.98	6.32	-1.09	0	0
	CO670	Connected member	5.78	-3.85	1.06	0	0
21	CO671	Main member	-13.45	1.03	-4.33	5.17	2.92
	CO671	Connected member	-20.8	6.32	-1.09	0	0
	CO671	Connected member	6.05	-3.84	1.06	0	0
21	CO672	Main member	-17.22	0.82	-7.46	8.44	2.2
	CO672	Connected member	-11.9	9.33	-1.08	0	0
	CO672	Connected member	2.06	-6.96	1.06	0	0
21	CO673	Main member	-27.31	0	3.38	-3.22	-0.17
	CO673	Connected member	4.06	-3.48	-1.07	0	0
	CO673	Connected member	-10.51	3.52	1.08	0	0
21	CO674	Main member	-32.16	0.01	3.35	-3.09	-0.18
	CO674	Connected member	4.23	-3.48	-1.06	0	0
	CO674	Connected member	-12.19	3.52	1.08	0	0
21	CO675	Main member	-25.82	0.01	3.37	-3.17	-0.15



::LAVteam::

Page: 59/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO675	Connected member	4.67	-3.48	-1.06	0	0
	CO675	Connected member	-10.64	3.52	1.08	0	0
	CO676	Main member	-30.67	0	3.39	-3.12	-0.16
21	CO676	Connected member	3.53	-3.49	-1.07	0	0
	CO676	Connected member	-11.25	3.52	1.08	0	0
	CO677	Main member	-12.3	1.05	-4.34	4.99	2.88
21	CO677	Connected member	-19.73	6.32	-1.09	0	0
	CO677	Connected member	6.17	-3.84	1.06	0	0
	CO678	Main member	-12.73	1.04	-4.32	5.09	2.92
21	CO678	Connected member	-20.4	6.32	-1.09	0	0
	CO678	Connected member	6.15	-3.84	1.06	0	0
	CO679	Main member	-12.51	1.08	-4.32	5.08	3.02
21	CO679	Connected member	-19.89	6.32	-1.09	0	0
	CO679	Connected member	6.14	-3.84	1.06	0	0
	CO680	Main member	-11.79	1.03	-4.32	5.2	2.95
21	CO680	Connected member	-20.71	6.32	-1.09	0	0
	CO680	Connected member	6.41	-3.84	1.06	0	0
	CO681	Main member	-15.55	0.82	-7.45	8.48	2.23
21	CO681	Connected member	-11.83	9.33	-1.08	0	0
	CO681	Connected member	2.43	-6.96	1.06	0	0
	CO682	Main member	-25.63	0	3.4	-3.21	-0.15
21	CO682	Connected member	4.1	-3.48	-1.07	0	0
	CO682	Connected member	-10.12	3.52	1.08	0	0
	CO683	Main member	-30.48	0.01	3.37	-3.08	-0.15
21	CO683	Connected member	4.27	-3.48	-1.06	0	0
	CO683	Connected member	-11.8	3.52	1.08	0	0
	CO684	Main member	-26.56	0.01	3.37	-3.15	-0.15
21	CO684	Connected member	4.6	-3.48	-1.06	0	0
	CO684	Connected member	-10.82	3.52	1.08	0	0
	CO685	Main member	-31.4	0	3.39	-3.11	-0.16
21	CO685	Connected member	3.46	-3.49	-1.07	0	0
	CO685	Connected member	-11.44	3.52	1.08	0	0
	CO686	Main member	-13.04	1.05	-4.34	5.01	2.88
21	CO686	Connected member	-19.8	6.32	-1.09	0	0
	CO686	Connected member	5.98	-3.85	1.06	0	0
	CO687	Main member	-13.47	1.04	-4.32	5.11	2.92
21	CO687	Connected member	-20.46	6.32	-1.09	0	0
	CO687	Connected member	5.96	-3.85	1.06	0	0
	CO688	Main member	-13.25	1.08	-4.32	5.1	3.02
21	CO688	Connected member	-19.95	6.32	-1.09	0	0
	CO688	Connected member	5.95	-3.85	1.06	0	0
	CO689	Main member	-12.53	1.03	-4.32	5.21	2.95
21	CO689	Connected member	-20.77	6.32	-1.09	0	0
	CO689	Connected member	6.22	-3.84	1.06	0	0
	CO690	Main member	-16.29	0.82	-7.45	8.5	2.23
21	CO690	Connected member	-11.89	9.33	-1.08	0	0
	CO690	Connected member	2.24	-6.96	1.06	0	0
	CO691	Main member	-26.37	0	3.4	-3.19	-0.15
21	CO691	Connected member	4.04	-3.48	-1.07	0	0
	CO691	Connected member	-10.3	3.52	1.08	0	0
	CO692	Main member	-31.22	0.01	3.36	-3.07	-0.15
21	CO692	Connected member	4.2	-3.48	-1.06	0	0
	CO692	Connected member	-11.98	3.52	1.08	0	0
	CO693	Main member	-26.26	0.01	3.37	-3.18	-0.16
21	CO693	Connected member	4.67	-3.48	-1.06	0	0
	CO693	Connected member	-10.73	3.52	1.08	0	0
	CO694	Main member	-31.1	0	3.39	-3.13	-0.16
21	CO694	Connected member	3.52	-3.49	-1.07	0	0
	CO694	Connected member	-11.35	3.52	1.08	0	0
	CO695	Main member	-12.73	1.05	-4.34	4.98	2.87
21	CO695	Connected member	-19.75	6.32	-1.09	0	0
	CO695	Connected member	6.08	-3.84	1.06	0	0
	CO696	Main member	-13.16	1.04	-4.32	5.08	2.91
21	CO696	Connected member	-20.42	6.32	-1.09	0	0
	CO696	Connected member	6.06	-3.84	1.06	0	0
	CO697	Main member	-12.94	1.07	-4.32	5.06	3.01
21	CO697	Connected member	-19.91	6.32	-1.09	0	0
	CO697	Connected member	6.05	-3.84	1.06	0	0
	CO698	Main member	-12.22	1.03	-4.32	5.18	2.94
21	CO698	Connected member	-20.73	6.32	-1.09	0	0
	CO698	Connected member	6.32	-3.84	1.06	0	0
	CO699	Main member	-15.99	0.82	-7.45	8.47	2.22
21	CO699	Connected member	-11.84	9.33	-1.08	0	0
	CO699	Connected member	2.34	-6.96	1.06	0	0
	CO700	Main member	-26.07	0	3.4	-3.21	-0.15
21	CO700	Connected member	4.1	-3.48	-1.07	0	0
	CO700	Connected member	-10.21	3.52	1.08	0	0
	CO701	Main member	-30.92	0.01	3.36	-3.09	-0.16
21	CO701	Connected member	4.26	-3.48	-1.06	0	0
	CO701	Connected member	-11.89	3.52	1.08	0	0
	CO702	Main member	-26.44	0.01	3.37	-3.18	-0.17
21	CO702	Connected member	4.68	-3.48	-1.06	0	0
	CO702	Connected member	-10.77	3.52	1.08	0	0
	CO703	Main member	-31.29	0	3.39	-3.13	-0.17
21	CO703	Connected member	3.53	-3.49	-1.07	0	0
	CO703	Connected member	-11.39	3.52	1.08	0	0
	CO704	Main member	-12.91	1.05	-4.34	4.96	2.86
21	CO704	Connected member	-19.76	6.32	-1.09	0	0
	CO704	Connected member	6.05	-3.84	1.06	0	0
	CO705	Main member	-13.34	1.03	-4.32	5.06	2.9
21	CO705	Connected member	-20.43	6.32	-1.09	0	0
	CO705	Connected member	6.03	-3.84	1.06	0	0
	CO706	Main member	-13.12	1.07	-4.32	5.05	3
21	CO706	Connected member	-19.92	6.32	-1.09	0	0



::LAV/team::

Page: 60/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO706	Connected member	6.02	-3.84	1.06	0	0
	CO707	Main member	-12.41	1.03	-4.33	5.17	2.93
	CO707	Connected member	-20.74	6.32	-1.09	0	0
21	CO707	Connected member	6.29	-3.84	1.06	0	0
	CO708	Main member	-16.17	0.82	-7.46	8.45	2.21
	CO708	Connected member	-11.84	9.33	-1.08	0	0
21	CO708	Connected member	2.31	-6.96	1.06	0	0
	CO709	Main member	-26.25	0	3.39	-3.22	-0.16
	CO709	Connected member	4.11	-3.48	-1.07	0	0
21	CO709	Connected member	-10.26	3.52	1.08	0	0
	CO710	Main member	-31.11	0.01	3.36	-3.09	-0.17
	CO710	Connected member	4.27	-3.48	-1.06	0	0
21	CO710	Connected member	-11.94	3.52	1.08	0	0
	CO711	Main member	-25.51	0.01	3.38	-3.16	-0.14
	CO711	Connected member	4.65	-3.48	-1.06	0	0
21	CO711	Connected member	-10.57	3.52	1.08	0	0
	CO712	Main member	-30.35	0	3.4	-3.11	-0.15
	CO712	Connected member	3.51	-3.49	-1.07	0	0
21	CO712	Connected member	-11.18	3.52	1.08	0	0
	CO713	Main member	-11.99	1.05	-4.33	5.02	2.89
	CO713	Connected member	-19.73	6.32	-1.09	0	0
21	CO713	Connected member	6.22	-3.84	1.06	0	0
	CO714	Main member	-12.42	1.04	-4.31	5.11	2.93
	CO714	Connected member	-20.4	6.32	-1.09	0	0
21	CO714	Connected member	6.2	-3.84	1.06	0	0
	CO715	Main member	-12.2	1.08	-4.31	5.1	3.03
	CO715	Connected member	-19.89	6.32	-1.09	0	0
21	CO715	Connected member	6.19	-3.84	1.06	0	0
	CO716	Main member	-11.48	1.03	-4.32	5.22	2.96
	CO716	Connected member	-20.71	6.32	-1.09	0	0
21	CO716	Connected member	6.47	-3.84	1.06	0	0
	CO717	Main member	-15.25	0.82	-7.45	8.51	2.24
	CO717	Connected member	-11.83	9.33	-1.08	0	0
21	CO717	Connected member	2.49	-6.96	1.06	0	0
	CO718	Main member	-25.32	0.01	3.4	-3.2	-0.13
	CO718	Connected member	4.09	-3.48	-1.07	0	0
21	CO718	Connected member	-10.05	3.52	1.08	0	0
	CO719	Main member	-30.17	0.01	3.37	-3.07	-0.14
	CO719	Connected member	4.25	-3.48	-1.06	0	0
21	CO719	Connected member	-11.73	3.52	1.08	0	0
	CO720	Main member	-15.37	0.01	-0.1	0.37	0
	CO720	Connected member	-2.55	0	-1.07	0	0
21	CO720	Connected member	-5.1	0	1.08	0	0
	CO721	Main member	-16.11	0.01	-0.1	0.39	0
	CO721	Connected member	-2.61	0	-1.07	0	0
21	CO721	Connected member	-5.29	0	1.08	0	0
	CO722	Main member	-25.63	0.01	3.38	-3.16	-0.15
	CO722	Connected member	4.66	-3.48	-1.06	0	0
21	CO722	Connected member	-10.59	3.52	1.08	0	0
	CO723	Main member	-30.48	0	3.4	-3.11	-0.15
	CO723	Connected member	3.52	-3.49	-1.07	0	0
21	CO723	Connected member	-11.21	3.52	1.08	0	0
	CO724	Main member	-12.11	1.05	-4.34	5.01	2.89
	CO724	Connected member	-19.73	6.32	-1.09	0	0
21	CO724	Connected member	6.2	-3.84	1.06	0	0
	CO725	Main member	-12.54	1.04	-4.31	5.11	2.92
	CO725	Connected member	-20.4	6.32	-1.09	0	0
21	CO725	Connected member	6.18	-3.84	1.06	0	0
	CO726	Main member	-12.32	1.08	-4.31	5.09	3.03
	CO726	Connected member	-19.89	6.32	-1.09	0	0
21	CO726	Connected member	6.17	-3.84	1.06	0	0
	CO727	Main member	-11.61	1.03	-4.32	5.21	2.96
	CO727	Connected member	-20.71	6.32	-1.09	0	0
21	CO727	Connected member	6.44	-3.84	1.06	0	0
	CO728	Main member	-15.37	0.82	-7.45	8.5	2.23
	CO728	Connected member	-11.83	9.33	-1.08	0	0
21	CO728	Connected member	2.47	-6.96	1.06	0	0
	CO729	Main member	-25.44	0.01	3.4	-3.2	-0.14
	CO729	Connected member	4.09	-3.48	-1.07	0	0
21	CO729	Connected member	-10.08	3.52	1.08	0	0
	CO730	Main member	-30.29	0.01	3.37	-3.07	-0.15
	CO730	Connected member	4.26	-3.48	-1.06	0	0
21	CO730	Connected member	-11.76	3.52	1.08	0	0
	CO731	Main member	-26.37	0.01	3.38	-3.15	-0.15
	CO731	Connected member	4.59	-3.48	-1.06	0	0
21	CO731	Connected member	-10.78	3.52	1.08	0	0
	CO732	Main member	-31.22	0	3.4	-3.1	-0.15
	CO732	Connected member	3.45	-3.49	-1.07	0	0
21	CO732	Connected member	-11.39	3.52	1.08	0	0
	CO733	Main member	-12.86	1.05	-4.34	5.02	2.89
	CO733	Connected member	-19.79	6.32	-1.09	0	0
21	CO733	Connected member	6.01	-3.84	1.06	0	0
	CO734	Main member	-13.28	1.04	-4.32	5.12	2.93
	CO734	Connected member	-20.46	6.32	-1.09	0	0
21	CO734	Connected member	5.99	-3.84	1.06	0	0
	CO735	Main member	-13.06	1.08	-4.32	5.11	3.03
	CO735	Connected member	-19.95	6.32	-1.09	0	0
21	CO735	Connected member	5.98	-3.84	1.06	0	0
	CO736	Main member	-12.35	1.03	-4.32	5.23	2.96
	CO736	Connected member	-20.77	6.32	-1.09	0	0
21	CO736	Connected member	6.25	-3.84	1.06	0	0
	CO737	Main member	-16.11	0.82	-7.45	8.52	2.23
	CO737	Connected member	-11.89	9.33	-1.08	0	0
21	CO737	Connected member	2.28	-6.96	1.06	0	0



::LAV/team::

Page: 61/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO738	Main member	-26.18	0.01	3.4	-3.19	-0.14
	CO738	Connected member	4.03	-3.48	-1.07	0	0
	CO738	Connected member	-10.26	3.52	1.08	0	0
21	CO739	Main member	-31.03	0.01	3.37	-3.06	-0.15
	CO739	Connected member	4.19	-3.48	-1.06	0	0
	CO739	Connected member	-11.94	3.52	1.08	0	0
21	CO740	Main member	-25.32	0.01	3.38	-3.15	-0.14
	CO740	Connected member	4.64	-3.48	-1.06	0	0
	CO740	Connected member	-10.53	3.52	1.08	0	0
21	CO741	Main member	-30.16	0	3.4	-3.1	-0.14
	CO741	Connected member	3.5	-3.49	-1.07	0	0
	CO741	Connected member	-11.14	3.52	1.08	0	0
21	CO742	Main member	-11.81	1.05	-4.33	5.03	2.9
	CO742	Connected member	-19.72	6.32	-1.09	0	0
	CO742	Connected member	6.26	-3.84	1.06	0	0
21	CO743	Main member	-12.24	1.04	-4.31	5.13	2.94
	CO743	Connected member	-20.39	6.32	-1.09	0	0
	CO743	Connected member	6.23	-3.84	1.06	0	0
21	CO744	Main member	-12.02	1.08	-4.31	5.11	3.04
	CO744	Connected member	-19.88	6.32	-1.09	0	0
	CO744	Connected member	6.23	-3.84	1.06	0	0
21	CO745	Main member	-11.3	1.03	-4.31	5.23	2.97
	CO745	Connected member	-20.7	6.32	-1.09	0	0
	CO745	Connected member	6.5	-3.84	1.06	0	0
21	CO746	Main member	-15.06	0.82	-7.44	8.52	2.24
	CO746	Connected member	-11.83	9.33	-1.08	0	0
	CO746	Connected member	2.52	-6.96	1.06	0	0
21	CO747	Main member	-25.13	0.01	3.41	-3.19	-0.13
	CO747	Connected member	4.08	-3.48	-1.07	0	0
	CO747	Connected member	-10.01	3.52	1.08	0	0
21	CO748	Main member	-29.98	0.02	3.37	-3.06	-0.14
	CO748	Connected member	4.24	-3.48	-1.06	0	0
	CO748	Connected member	-11.69	3.52	1.08	0	0
21	CO749	Main member	-14.45	0.02	-0.08	0.42	0.04
	CO749	Connected member	-2.59	0	-1.07	0	0
	CO749	Connected member	-4.9	0	1.08	0	0
21	CO750	Main member	-15.93	0.02	-0.08	0.45	0.04
	CO750	Connected member	-2.72	0	-1.07	0	0
	CO750	Connected member	-5.28	0	1.08	0	0
21	CO751	Main member	-15.37	0.01	-0.09	0.39	0.01
	CO751	Connected member	-2.57	0	-1.07	0	0
	CO751	Connected member	-5.1	0	1.08	0	0
21	CO752	Main member	-16.85	0.01	-0.1	0.42	0.02
	CO752	Connected member	-2.71	0	-1.07	0	0
	CO752	Connected member	-5.48	0	1.08	0	0
21	CO753	Main member	-15.55	0.01	-0.1	0.38	0.01
	CO753	Connected member	-2.57	0	-1.07	0	0
	CO753	Connected member	-5.14	0	1.08	0	0
21	CO754	Main member	-17.04	0.01	-0.1	0.41	0.01
	CO754	Connected member	-2.7	0	-1.07	0	0
	CO754	Connected member	-5.52	0	1.08	0	0
21	CO755	Main member	-14.63	0.02	-0.08	0.41	0.03
	CO755	Connected member	-2.58	0	-1.07	0	0
	CO755	Connected member	-4.94	0	1.08	0	0
21	CO756	Main member	-16.11	0.02	-0.09	0.44	0.03
	CO756	Connected member	-2.71	0	-1.07	0	0
	CO756	Connected member	-5.32	0	1.08	0	0
21	CO757	Main member	-25.63	0.01	3.38	-3.15	-0.14
	CO757	Connected member	4.63	-3.48	-1.06	0	0
	CO757	Connected member	-10.6	3.52	1.08	0	0
21	CO758	Main member	-30.47	0	3.4	-3.1	-0.14
	CO758	Connected member	3.49	-3.49	-1.07	0	0
	CO758	Connected member	-11.21	3.52	1.08	0	0
21	CO759	Main member	-12.12	1.05	-4.33	5.03	2.9
	CO759	Connected member	-19.74	6.32	-1.09	0	0
	CO759	Connected member	6.19	-3.84	1.06	0	0
21	CO760	Main member	-12.55	1.04	-4.31	5.12	2.94
	CO760	Connected member	-20.41	6.32	-1.09	0	0
	CO760	Connected member	6.16	-3.84	1.06	0	0
21	CO761	Main member	-12.33	1.08	-4.31	5.11	3.04
	CO761	Connected member	-19.9	6.32	-1.09	0	0
	CO761	Connected member	6.16	-3.84	1.06	0	0
21	CO762	Main member	-11.61	1.03	-4.31	5.23	2.97
	CO762	Connected member	-20.72	6.32	-1.09	0	0
	CO762	Connected member	6.43	-3.84	1.06	0	0
21	CO763	Main member	-15.37	0.82	-7.45	8.52	2.24
	CO763	Connected member	-11.84	9.33	-1.08	0	0
	CO763	Connected member	2.45	-6.96	1.06	0	0
21	CO764	Main member	-25.44	0.01	3.41	-3.19	-0.13
	CO764	Connected member	4.06	-3.48	-1.07	0	0
	CO764	Connected member	-10.08	3.52	1.08	0	0
21	CO765	Main member	-30.29	0.02	3.37	-3.06	-0.14
	CO765	Connected member	4.23	-3.48	-1.06	0	0
	CO765	Connected member	-11.76	3.52	1.08	0	0
21	CO766	Main member	-27.11	0.01	3.38	-3.12	-0.14
	CO766	Connected member	4.5	-3.48	-1.06	0	0
	CO766	Connected member	-10.97	3.52	1.08	0	0
21	CO767	Main member	-31.95	0	3.4	-3.08	-0.14
	CO767	Connected member	3.36	-3.49	-1.07	0	0
	CO767	Connected member	-11.58	3.52	1.08	0	0
21	CO768	Main member	-13.6	1.05	-4.34	5.06	2.9
	CO768	Connected member	-19.86	6.32	-1.09	0	0
	CO768	Connected member	5.81	-3.85	1.06	0	0
21	CO769	Main member	-14.03	1.04	-4.31	5.16	2.94



::LAVteam::

Page: 62/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO769	Connected member	-20.53	6.32	-1.09	0	0
	CO769	Connected member	5.78	-3.85	1.06	0	0
	CO770	Main member	-13.81	1.08	-4.31	5.14	3.04
21	CO770	Connected member	-20.02	6.32	-1.09	0	0
	CO770	Connected member	5.78	-3.85	1.06	0	0
	CO771	Main member	-13.09	1.03	-4.32	5.26	2.97
21	CO771	Connected member	-20.84	6.32	-1.09	0	0
	CO771	Connected member	6.05	-3.84	1.06	0	0
	CO772	Main member	-16.85	0.82	-7.45	8.56	2.24
21	CO772	Connected member	-11.97	9.33	-1.08	0	0
	CO772	Connected member	2.07	-6.96	1.06	0	0
	CO773	Main member	-26.92	0.01	3.4	-3.16	-0.13
21	CO773	Connected member	3.93	-3.48	-1.07	0	0
	CO773	Connected member	-10.45	3.52	1.08	0	0
	CO774	Main member	-31.77	0.02	3.37	-3.03	-0.14
21	CO774	Connected member	4.09	-3.48	-1.07	0	0
	CO774	Connected member	-12.13	3.52	1.08	0	0
	CO775	Main member	-25.82	0.01	3.38	-3.16	-0.14
21	CO775	Connected member	4.64	-3.48	-1.06	0	0
	CO775	Connected member	-10.64	3.52	1.08	0	0
	CO776	Main member	-30.66	0	3.4	-3.11	-0.15
21	CO776	Connected member	3.5	-3.49	-1.07	0	0
	CO776	Connected member	-11.25	3.52	1.08	0	0
	CO777	Main member	-12.3	1.05	-4.33	5.01	2.89
21	CO777	Connected member	-19.74	6.32	-1.09	0	0
	CO777	Connected member	6.16	-3.84	1.06	0	0
	CO778	Main member	-12.73	1.04	-4.31	5.11	2.93
21	CO778	Connected member	-20.41	6.32	-1.09	0	0
	CO778	Connected member	6.13	-3.84	1.06	0	0
	CO779	Main member	-12.51	1.08	-4.31	5.1	3.03
21	CO779	Connected member	-19.9	6.32	-1.09	0	0
	CO779	Connected member	6.13	-3.84	1.06	0	0
	CO780	Main member	-11.79	1.03	-4.32	5.22	2.96
21	CO780	Connected member	-20.72	6.32	-1.09	0	0
	CO780	Connected member	6.4	-3.84	1.06	0	0
	CO781	Main member	-15.56	0.82	-7.45	8.5	2.24
21	CO781	Connected member	-11.84	9.33	-1.08	0	0
	CO781	Connected member	2.42	-6.96	1.06	0	0
	CO782	Main member	-25.63	0.01	3.4	-3.2	-0.14
21	CO782	Connected member	4.07	-3.48	-1.07	0	0
	CO782	Connected member	-10.12	3.52	1.08	0	0
	CO783	Main member	-30.48	0.01	3.37	-3.07	-0.14
21	CO783	Connected member	4.24	-3.48	-1.06	0	0
	CO783	Connected member	-11.8	3.52	1.08	0	0
	CO784	Main member	-27.3	0.01	3.38	-3.13	-0.14
21	CO784	Connected member	4.51	-3.48	-1.06	0	0
	CO784	Connected member	-11.01	3.52	1.08	0	0
	CO785	Main member	-32.14	0	3.4	-3.08	-0.15
21	CO785	Connected member	3.37	-3.49	-1.07	0	0
	CO785	Connected member	-11.63	3.52	1.08	0	0
	CO786	Main member	-13.78	1.05	-4.34	5.05	2.89
21	CO786	Connected member	-19.87	6.32	-1.09	0	0
	CO786	Connected member	5.78	-3.85	1.06	0	0
	CO787	Main member	-14.21	1.04	-4.32	5.14	2.93
21	CO787	Connected member	-20.54	6.32	-1.09	0	0
	CO787	Connected member	5.75	-3.85	1.06	0	0
	CO788	Main member	-13.99	1.08	-4.32	5.13	3.03
21	CO788	Connected member	-20.03	6.32	-1.09	0	0
	CO788	Connected member	5.75	-3.85	1.06	0	0
	CO789	Main member	-13.27	1.03	-4.32	5.25	2.96
21	CO789	Connected member	-20.85	6.32	-1.09	0	0
	CO789	Connected member	6.02	-3.84	1.06	0	0
	CO790	Main member	-17.03	0.82	-7.45	8.54	2.24
21	CO790	Connected member	-11.97	9.33	-1.08	0	0
	CO790	Connected member	2.04	-6.96	1.06	0	0
	CO791	Main member	-27.11	0.01	3.4	-3.17	-0.14
21	CO791	Connected member	3.94	-3.48	-1.07	0	0
	CO791	Connected member	-10.49	3.52	1.08	0	0
	CO792	Main member	-31.96	0.02	3.37	-3.04	-0.14
21	CO792	Connected member	4.11	-3.48	-1.07	0	0
	CO792	Connected member	-12.17	3.52	1.08	0	0
	CO793	Main member	-24.88	0.02	3.39	-3.13	-0.12
21	CO793	Connected member	4.62	-3.48	-1.06	0	0
	CO793	Connected member	-10.43	3.52	1.08	0	0
	CO794	Main member	-29.72	0.01	3.41	-3.09	-0.12
21	CO794	Connected member	3.48	-3.49	-1.07	0	0
	CO794	Connected member	-11.04	3.52	1.08	0	0
	CO795	Main member	-11.38	1.05	-4.32	5.06	2.92
21	CO795	Connected member	-19.72	6.32	-1.09	0	0
	CO795	Connected member	6.33	-3.84	1.06	0	0
	CO796	Main member	-11.81	1.04	-4.3	5.16	2.96
21	CO796	Connected member	-20.39	6.32	-1.09	0	0
	CO796	Connected member	6.3	-3.84	1.06	0	0
	CO797	Main member	-11.59	1.08	-4.3	5.15	3.06
21	CO797	Connected member	-19.87	6.32	-1.09	0	0
	CO797	Connected member	6.3	-3.84	1.06	0	0
	CO798	Main member	-10.87	1.04	-4.31	5.26	2.99
21	CO798	Connected member	-20.69	6.32	-1.09	0	0
	CO798	Connected member	6.57	-3.84	1.06	0	0
	CO799	Main member	-14.63	0.82	-7.44	8.56	2.26
21	CO799	Connected member	-11.83	9.33	-1.08	0	0
	CO799	Connected member	2.6	-6.96	1.06	0	0
	CO800	Main member	-24.69	0.01	3.42	-3.17	-0.11
21	CO800	Connected member	4.05	-3.48	-1.07	0	0



::LAVteam::

Page: 63/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO800	Connected member	-9.91	3.52	1.08	0	0
	CO801	Main member	-29.54	0.02	3.38	-3.04	-0.12
	CO801	Connected member	4.21	-3.48	-1.06	0	0
21	CO801	Connected member	-11.59	3.52	1.08	0	0
	CO802	Main member	-26.36	0.02	3.39	-3.11	-0.12
	CO802	Connected member	4.48	-3.48	-1.06	0	0
21	CO802	Connected member	-10.81	3.52	1.08	0	0
	CO803	Main member	-31.2	0.01	3.41	-3.06	-0.12
	CO803	Connected member	3.34	-3.49	-1.07	0	0
21	CO803	Connected member	-11.42	3.52	1.08	0	0
	CO804	Main member	-12.87	1.05	-4.33	5.1	2.92
	CO804	Connected member	-19.84	6.32	-1.09	0	0
21	CO804	Connected member	5.95	-3.85	1.06	0	0
	CO805	Main member	-13.29	1.04	-4.31	5.19	2.96
	CO805	Connected member	-20.51	6.32	-1.09	0	0
21	CO805	Connected member	5.92	-3.85	1.06	0	0
	CO806	Main member	-13.07	1.08	-4.31	5.18	3.06
	CO806	Connected member	-20	6.32	-1.09	0	0
21	CO806	Connected member	5.92	-3.85	1.06	0	0
	CO807	Main member	-12.35	1.04	-4.31	5.3	2.99
	CO807	Connected member	-20.82	6.32	-1.09	0	0
21	CO807	Connected member	6.19	-3.84	1.06	0	0
	CO808	Main member	-16.11	0.82	-7.44	8.6	2.26
	CO808	Connected member	-11.95	9.33	-1.08	0	0
21	CO808	Connected member	2.22	-6.96	1.06	0	0
	CO809	Main member	-26.17	0.01	3.41	-3.14	-0.11
	CO809	Connected member	3.92	-3.48	-1.07	0	0
21	CO809	Connected member	-10.29	3.52	1.08	0	0
	CO810	Main member	-31.02	0.02	3.38	-3.02	-0.12
	CO810	Connected member	4.08	-3.48	-1.07	0	0
21	CO810	Connected member	-11.97	3.52	1.08	0	0
	CO811	Main member	-24.7	0.02	3.4	-3.13	-0.11
	CO811	Connected member	4.61	-3.48	-1.06	0	0
21	CO811	Connected member	-10.39	3.52	1.08	0	0
	CO812	Main member	-29.53	0.01	3.42	-3.08	-0.12
	CO812	Connected member	3.47	-3.49	-1.07	0	0
21	CO812	Connected member	-11	3.52	1.08	0	0
	CO813	Main member	-11.2	1.05	-4.32	5.08	2.93
	CO813	Connected member	-19.71	6.32	-1.09	0	0
21	CO813	Connected member	6.36	-3.84	1.06	0	0
	CO814	Main member	-11.62	1.04	-4.3	5.17	2.96
	CO814	Connected member	-20.38	6.32	-1.09	0	0
21	CO814	Connected member	6.34	-3.84	1.06	0	0
	CO815	Main member	-11.41	1.08	-4.3	5.16	3.07
	CO815	Connected member	-19.87	6.32	-1.09	0	0
21	CO815	Connected member	6.33	-3.84	1.06	0	0
	CO816	Main member	-10.69	1.04	-4.3	5.28	3
	CO816	Connected member	-20.69	6.32	-1.09	0	0
21	CO816	Connected member	6.6	-3.84	1.06	0	0
	CO817	Main member	-14.44	0.82	-7.44	8.58	2.27
	CO817	Connected member	-11.83	9.33	-1.08	0	0
21	CO817	Connected member	2.63	-6.96	1.06	0	0
	CO818	Main member	-24.5	0.01	3.42	-3.17	-0.1
	CO818	Connected member	4.04	-3.48	-1.07	0	0
21	CO818	Connected member	-9.87	3.52	1.08	0	0
	CO819	Main member	-29.35	0.02	3.39	-3.04	-0.11
	CO819	Connected member	4.2	-3.48	-1.06	0	0
21	CO819	Connected member	-11.55	3.52	1.08	0	0
	CO820	Main member	-26.17	0.02	3.39	-3.1	-0.11
	CO820	Connected member	4.47	-3.48	-1.06	0	0
21	CO820	Connected member	-10.77	3.52	1.08	0	0
	CO821	Main member	-31.01	0.01	3.41	-3.05	-0.12
	CO821	Connected member	3.33	-3.49	-1.07	0	0
21	CO821	Connected member	-11.38	3.52	1.08	0	0
	CO822	Main member	-12.68	1.05	-4.33	5.11	2.93
	CO822	Connected member	-19.83	6.32	-1.09	0	0
21	CO822	Connected member	5.98	-3.84	1.06	0	0
	CO823	Main member	-13.11	1.04	-4.3	5.21	2.97
	CO823	Connected member	-20.5	6.32	-1.09	0	0
21	CO823	Connected member	5.96	-3.85	1.06	0	0
	CO824	Main member	-12.89	1.08	-4.3	5.19	3.07
	CO824	Connected member	-19.99	6.32	-1.09	0	0
21	CO824	Connected member	5.95	-3.85	1.06	0	0
	CO825	Main member	-12.17	1.04	-4.31	5.31	3
	CO825	Connected member	-20.81	6.32	-1.09	0	0
21	CO825	Connected member	6.22	-3.84	1.06	0	0
	CO826	Main member	-15.92	0.82	-7.44	8.61	2.27
	CO826	Connected member	-11.95	9.33	-1.08	0	0
21	CO826	Connected member	2.25	-6.96	1.06	0	0
	CO827	Main member	-25.98	0.01	3.42	-3.14	-0.1
	CO827	Connected member	3.91	-3.48	-1.07	0	0
21	CO827	Connected member	-10.25	3.52	1.08	0	0
	CO828	Main member	-30.83	0.02	3.38	-3.01	-0.11
	CO828	Connected member	4.07	-3.48	-1.07	0	0
21	CO828	Connected member	-11.93	3.52	1.08	0	0
	CO829	Main member	-30.89	0.02	5.73	-5.49	-0.19
	CO829	Connected member	9.35	-5.79	-1.06	0	0
21	CO829	Connected member	-13.89	5.88	1.08	0	0
	CO830	Main member	-38.91	0.01	5.78	-5.45	-0.2
	CO830	Connected member	7.44	-5.79	-1.06	0	0
21	CO830	Connected member	-14.9	5.88	1.08	0	0
	CO831	Main member	-8.43	1.75	-7.14	8.24	4.89
	CO831	Connected member	-31.06	10.61	-1.1	0	0
21	CO831	Connected member	13.97	-6.37	1.05	0	0



::LAV/team::

Page: 64/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO832	Main member	-9.15	1.72	-7.1	8.42	4.95
	CO832	Connected member	-32.09	10.62	-1.1	0	0
	CO832	Connected member	13.88	-6.38	1.05	0	0
21	CO833	Main member	-8.78	1.79	-7.1	8.39	5.12
	CO833	Connected member	-31.25	10.61	-1.1	0	0
	CO833	Connected member	13.87	-6.38	1.05	0	0
21	CO834	Main member	-7.58	1.71	-7.11	8.61	5.01
	CO834	Connected member	-32.53	10.62	-1.1	0	0
	CO834	Connected member	14.28	-6.37	1.05	0	0
21	CO835	Main member	-13.82	1.35	-12.34	14.15	3.77
	CO835	Connected member	-17.79	15.61	-1.07	0	0
	CO835	Connected member	7.73	-11.56	1.05	0	0
21	CO836	Main member	-30.55	0.01	5.78	-5.58	-0.18
	CO836	Connected member	8.4	-5.79	-1.06	0	0
	CO836	Connected member	-13.02	5.87	1.08	0	0
21	CO837	Main member	-38.63	0.03	5.72	-5.35	-0.19
	CO837	Connected member	8.68	-5.79	-1.06	0	0
	CO837	Connected member	-15.82	5.89	1.08	0	0
21	CO838	Main member	-31.83	0.02	5.72	-5.51	-0.22
	CO838	Connected member	9.38	-5.79	-1.06	0	0
	CO838	Connected member	-14.1	5.88	1.08	0	0
21	CO839	Main member	-39.86	0	5.76	-5.46	-0.22
	CO839	Connected member	7.47	-5.79	-1.06	0	0
	CO839	Connected member	-15.11	5.88	1.08	0	0
21	CO840	Main member	-9.34	1.74	-7.15	8.19	4.85
	CO840	Connected member	-31.12	10.61	-1.1	0	0
	CO840	Connected member	13.82	-6.38	1.05	0	0
21	CO841	Main member	-10.07	1.72	-7.11	8.36	4.92
	CO841	Connected member	-32.15	10.62	-1.1	0	0
	CO841	Connected member	13.73	-6.38	1.05	0	0
21	CO842	Main member	-9.7	1.79	-7.11	8.34	5.09
	CO842	Connected member	-31.3	10.62	-1.1	0	0
	CO842	Connected member	13.72	-6.38	1.05	0	0
21	CO843	Main member	-8.51	1.71	-7.12	8.56	4.98
	CO843	Connected member	-32.59	10.62	-1.1	0	0
	CO843	Connected member	14.12	-6.37	1.05	0	0
21	CO844	Main member	-14.75	1.35	-12.35	14.09	3.74
	CO844	Connected member	-17.83	15.61	-1.07	0	0
	CO844	Connected member	7.56	-11.56	1.05	0	0
21	CO845	Main member	-31.5	0.01	5.77	-5.59	-0.2
	CO845	Connected member	8.43	-5.79	-1.06	0	0
	CO845	Connected member	-13.23	5.87	1.08	0	0
21	CO846	Main member	-39.58	0.02	5.71	-5.37	-0.22
	CO846	Connected member	8.7	-5.79	-1.06	0	0
	CO846	Connected member	-16.03	5.89	1.08	0	0
21	CO847	Main member	-32.02	0.02	5.72	-5.51	-0.22
	CO847	Connected member	9.39	-5.79	-1.06	0	0
	CO847	Connected member	-14.14	5.88	1.08	0	0
21	CO848	Main member	-40.06	0	5.76	-5.47	-0.23
	CO848	Connected member	7.48	-5.79	-1.06	0	0
	CO848	Connected member	-15.15	5.88	1.08	0	0
21	CO849	Main member	-9.53	1.74	-7.15	8.17	4.85
	CO849	Connected member	-31.13	10.61	-1.09	0	0
	CO849	Connected member	13.8	-6.38	1.05	0	0
21	CO850	Main member	-10.25	1.72	-7.12	8.35	4.91
	CO850	Connected member	-32.16	10.62	-1.1	0	0
	CO850	Connected member	13.7	-6.38	1.05	0	0
21	CO851	Main member	-9.88	1.79	-7.12	8.32	5.08
	CO851	Connected member	-31.32	10.62	-1.1	0	0
	CO851	Connected member	13.69	-6.38	1.05	0	0
21	CO852	Main member	-8.69	1.71	-7.13	8.54	4.97
	CO852	Connected member	-32.6	10.62	-1.1	0	0
	CO852	Connected member	14.1	-6.37	1.05	0	0
21	CO853	Main member	-14.94	1.35	-12.35	14.07	3.73
	CO853	Connected member	-17.83	15.61	-1.07	0	0
	CO853	Connected member	7.53	-11.56	1.05	0	0
21	CO854	Main member	-31.69	0.01	5.76	-5.6	-0.21
	CO854	Connected member	8.44	-5.79	-1.06	0	0
	CO854	Connected member	-13.27	5.87	1.08	0	0
21	CO855	Main member	-39.77	0.02	5.71	-5.38	-0.22
	CO855	Connected member	8.72	-5.79	-1.06	0	0
	CO855	Connected member	-16.07	5.89	1.08	0	0
21	CO856	Main member	-31.08	0.02	5.73	-5.5	-0.2
	CO856	Connected member	9.36	-5.79	-1.06	0	0
	CO856	Connected member	-13.93	5.88	1.08	0	0
21	CO857	Main member	-39.1	0	5.77	-5.45	-0.21
	CO857	Connected member	7.45	-5.79	-1.06	0	0
	CO857	Connected member	-14.94	5.88	1.08	0	0
21	CO858	Main member	-8.61	1.75	-7.14	8.23	4.88
	CO858	Connected member	-31.07	10.61	-1.1	0	0
	CO858	Connected member	13.95	-6.38	1.05	0	0
21	CO859	Main member	-9.33	1.72	-7.11	8.4	4.94
	CO859	Connected member	-32.1	10.62	-1.1	0	0
	CO859	Connected member	13.86	-6.38	1.05	0	0
21	CO860	Main member	-8.96	1.79	-7.11	8.38	5.11
	CO860	Connected member	-31.26	10.62	-1.1	0	0
	CO860	Connected member	13.85	-6.38	1.05	0	0
21	CO861	Main member	-7.77	1.71	-7.11	8.59	5
	CO861	Connected member	-32.54	10.62	-1.1	0	0
	CO861	Connected member	14.25	-6.37	1.05	0	0
21	CO862	Main member	-14.01	1.35	-12.34	14.13	3.76
	CO862	Connected member	-17.8	15.61	-1.07	0	0
	CO862	Connected member	7.7	-11.56	1.05	0	0
21	CO863	Main member	-30.74	0.01	5.78	-5.58	-0.19



::LAVteam::

Page: 65/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO863	Connected member	8.41	-5.79	-1.06	0	0
	CO863	Connected member	-13.06	5.87	1.08	0	0
	CO864	Main member	-38.82	0.02	5.72	-5.36	-0.2
21	CO864	Connected member	8.69	-5.79	-1.06	0	0
	CO864	Connected member	-15.86	5.89	1.08	0	0
	CO865	Main member	-32.15	0.02	5.71	-5.52	-0.23
21	CO865	Connected member	9.4	-5.79	-1.06	0	0
	CO865	Connected member	-14.17	5.88	1.08	0	0
	CO866	Main member	-40.18	0	5.75	-5.47	-0.23
21	CO866	Connected member	7.49	-5.79	-1.06	0	0
	CO866	Connected member	-15.18	5.88	1.08	0	0
	CO867	Main member	-9.65	1.74	-7.15	8.16	4.84
21	CO867	Connected member	-31.13	10.61	-1.09	0	0
	CO867	Connected member	13.78	-6.38	1.05	0	0
	CO868	Main member	-10.37	1.72	-7.12	8.34	4.91
21	CO868	Connected member	-32.17	10.62	-1.1	0	0
	CO868	Connected member	13.69	-6.38	1.05	0	0
	CO869	Main member	-10.01	1.79	-7.12	8.31	5.07
21	CO869	Connected member	-31.32	10.62	-1.1	0	0
	CO869	Connected member	13.67	-6.38	1.05	0	0
	CO870	Main member	-8.81	1.71	-7.13	8.53	4.96
21	CO870	Connected member	-32.61	10.62	-1.1	0	0
	CO870	Connected member	14.08	-6.37	1.05	0	0
	CO871	Main member	-15.06	1.35	-12.35	14.05	3.73
21	CO871	Connected member	-17.83	15.61	-1.07	0	0
	CO871	Connected member	7.51	-11.56	1.05	0	0
	CO872	Main member	-31.81	0	5.76	-5.6	-0.21
21	CO872	Connected member	8.45	-5.79	-1.06	0	0
	CO872	Connected member	-13.3	5.87	1.08	0	0
	CO873	Main member	-39.9	0.02	5.7	-5.38	-0.23
21	CO873	Connected member	8.72	-5.79	-1.06	0	0
	CO873	Connected member	-16.1	5.89	1.08	0	0
	CO874	Main member	-32.89	0.02	5.71	-5.5	-0.23
21	CO874	Connected member	9.33	-5.79	-1.06	0	0
	CO874	Connected member	-14.36	5.88	1.08	0	0
	CO875	Main member	-40.92	0	5.75	-5.46	-0.23
21	CO875	Connected member	7.42	-5.79	-1.06	0	0
	CO875	Connected member	-15.37	5.88	1.08	0	0
	CO876	Main member	-10.39	1.74	-7.16	8.18	4.84
21	CO876	Connected member	-31.19	10.61	-1.1	0	0
	CO876	Connected member	13.59	-6.38	1.05	0	0
	CO877	Main member	-11.11	1.72	-7.12	8.36	4.91
21	CO877	Connected member	-32.23	10.62	-1.1	0	0
	CO877	Connected member	13.49	-6.38	1.05	0	0
	CO878	Main member	-10.75	1.79	-7.12	8.33	5.07
21	CO878	Connected member	-31.38	10.62	-1.1	0	0
	CO878	Connected member	13.48	-6.38	1.05	0	0
	CO879	Main member	-9.55	1.71	-7.13	8.55	4.96
21	CO879	Connected member	-32.67	10.63	-1.1	0	0
	CO879	Connected member	13.89	-6.38	1.05	0	0
	CO880	Main member	-15.8	1.35	-12.36	14.07	3.73
21	CO880	Connected member	-17.9	15.61	-1.07	0	0
	CO880	Connected member	7.32	-11.56	1.05	0	0
	CO881	Main member	-32.55	0	5.76	-5.59	-0.21
21	CO881	Connected member	8.38	-5.79	-1.06	0	0
	CO881	Connected member	-13.49	5.88	1.08	0	0
	CO882	Main member	-40.64	0.02	5.7	-5.37	-0.23
21	CO882	Connected member	8.66	-5.79	-1.06	0	0
	CO882	Connected member	-16.29	5.89	1.08	0	0
	CO883	Main member	-32.34	0.01	5.71	-5.52	-0.23
21	CO883	Connected member	9.41	-5.79	-1.06	0	0
	CO883	Connected member	-14.21	5.88	1.08	0	0
	CO884	Main member	-40.38	0	5.75	-5.47	-0.24
21	CO884	Connected member	7.5	-5.79	-1.06	0	0
	CO884	Connected member	-15.22	5.88	1.08	0	0
	CO885	Main member	-9.83	1.74	-7.16	8.14	4.83
21	CO885	Connected member	-31.15	10.61	-1.09	0	0
	CO885	Connected member	13.75	-6.38	1.05	0	0
	CO886	Main member	-10.55	1.72	-7.12	8.32	4.9
21	CO886	Connected member	-32.18	10.62	-1.1	0	0
	CO886	Connected member	13.66	-6.38	1.05	0	0
	CO887	Main member	-10.19	1.78	-7.12	8.3	5.06
21	CO887	Connected member	-31.34	10.62	-1.1	0	0
	CO887	Connected member	13.65	-6.38	1.05	0	0
	CO888	Main member	-9	1.71	-7.13	8.52	4.96
21	CO888	Connected member	-32.62	10.62	-1.1	0	0
	CO888	Connected member	14.05	-6.37	1.05	0	0
	CO889	Main member	-15.25	1.35	-12.36	14.04	3.72
21	CO889	Connected member	-17.84	15.61	-1.07	0	0
	CO889	Connected member	7.48	-11.56	1.05	0	0
	CO890	Main member	-32	0	5.75	-5.61	-0.22
21	CO890	Connected member	8.46	-5.79	-1.06	0	0
	CO890	Connected member	-13.34	5.88	1.08	0	0
	CO891	Main member	-40.09	0.02	5.7	-5.38	-0.24
21	CO891	Connected member	8.74	-5.79	-1.06	0	0
	CO891	Connected member	-16.14	5.89	1.08	0	0
	CO892	Main member	-33.08	0.01	5.71	-5.51	-0.23
21	CO892	Connected member	9.34	-5.79	-1.06	0	0
	CO892	Connected member	-14.4	5.88	1.08	0	0
	CO893	Main member	-41.11	0	5.75	-5.46	-0.24
21	CO893	Connected member	7.43	-5.79	-1.06	0	0
	CO893	Connected member	-15.41	5.88	1.08	0	0
	CO894	Main member	-10.57	1.74	-7.16	8.16	4.83
21	CO894	Connected member	-31.21	10.61	-1.1	0	0



::LAV/team::

Page: 66/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO894	Connected member	13.56	-6.38	1.05	0	0
	CO895	Main member	-11.3	1.72	-7.12	8.34	4.9
	CO895	Connected member	-32.24	10.62	-1.1	0	0
21	CO895	Connected member	13.47	-6.38	1.05	0	0
	CO896	Main member	-10.93	1.78	-7.12	8.32	5.07
	CO896	Connected member	-31.39	10.62	-1.1	0	0
21	CO896	Connected member	13.46	-6.38	1.05	0	0
	CO897	Main member	-9.74	1.71	-7.13	8.53	4.96
	CO897	Connected member	-32.68	10.63	-1.1	0	0
21	CO897	Connected member	13.86	-6.38	1.05	0	0
	CO898	Main member	-15.98	1.35	-12.36	14.06	3.72
	CO898	Connected member	-17.9	15.61	-1.07	0	0
21	CO898	Connected member	7.29	-11.56	1.05	0	0
	CO899	Main member	-32.74	0	5.75	-5.59	-0.22
	CO899	Connected member	8.39	-5.79	-1.06	0	0
21	CO899	Connected member	-13.53	5.88	1.08	0	0
	CO900	Main member	-40.83	0.02	5.7	-5.37	-0.24
	CO900	Connected member	8.67	-5.79	-1.06	0	0
21	CO900	Connected member	-16.33	5.89	1.08	0	0
	CO901	Main member	-31.4	0.02	5.72	-5.5	-0.21
	CO901	Connected member	9.38	-5.79	-1.06	0	0
21	CO901	Connected member	-14	5.88	1.08	0	0
	CO902	Main member	-39.43	0	5.76	-5.46	-0.22
	CO902	Connected member	7.47	-5.79	-1.06	0	0
21	CO902	Connected member	-15.01	5.88	1.08	0	0
	CO903	Main member	-8.91	1.75	-7.15	8.2	4.86
	CO903	Connected member	-31.09	10.61	-1.1	0	0
21	CO903	Connected member	13.9	-6.38	1.05	0	0
	CO904	Main member	-9.63	1.72	-7.11	8.38	4.93
	CO904	Connected member	-32.12	10.62	-1.1	0	0
21	CO904	Connected member	13.81	-6.38	1.05	0	0
	CO905	Main member	-9.27	1.79	-7.11	8.35	5.09
	CO905	Connected member	-31.28	10.62	-1.1	0	0
21	CO905	Connected member	13.8	-6.38	1.05	0	0
	CO906	Main member	-8.07	1.71	-7.12	8.57	4.99
	CO906	Connected member	-32.56	10.62	-1.1	0	0
21	CO906	Connected member	14.21	-6.37	1.05	0	0
	CO907	Main member	-14.32	1.35	-12.35	14.1	3.75
	CO907	Connected member	-17.81	15.61	-1.07	0	0
21	CO907	Connected member	7.65	-11.56	1.05	0	0
	CO908	Main member	-31.06	0.01	5.77	-5.59	-0.2
	CO908	Connected member	8.43	-5.79	-1.06	0	0
21	CO908	Connected member	-13.13	5.87	1.08	0	0
	CO909	Main member	-39.14	0.02	5.71	-5.37	-0.21
	CO909	Connected member	8.71	-5.79	-1.06	0	0
21	CO909	Connected member	-15.93	5.89	1.08	0	0
	CO910	Main member	-32.13	0.02	5.72	-5.49	-0.21
	CO910	Connected member	9.31	-5.79	-1.06	0	0
21	CO910	Connected member	-14.19	5.88	1.08	0	0
	CO911	Main member	-40.16	0	5.76	-5.45	-0.22
	CO911	Connected member	7.41	-5.79	-1.06	0	0
21	CO911	Connected member	-15.2	5.88	1.08	0	0
	CO912	Main member	-9.66	1.75	-7.15	8.22	4.86
	CO912	Connected member	-31.15	10.61	-1.1	0	0
21	CO912	Connected member	13.71	-6.38	1.05	0	0
	CO913	Main member	-10.38	1.72	-7.11	8.4	4.93
	CO913	Connected member	-32.18	10.62	-1.1	0	0
21	CO913	Connected member	13.62	-6.38	1.05	0	0
	CO914	Main member	-10.01	1.79	-7.11	8.37	5.1
	CO914	Connected member	-31.34	10.62	-1.1	0	0
21	CO914	Connected member	13.61	-6.38	1.05	0	0
	CO915	Main member	-8.81	1.71	-7.12	8.59	4.99
	CO915	Connected member	-32.62	10.62	-1.1	0	0
21	CO915	Connected member	14.01	-6.37	1.05	0	0
	CO916	Main member	-15.05	1.35	-12.35	14.12	3.75
	CO916	Connected member	-17.87	15.61	-1.07	0	0
21	CO916	Connected member	7.46	-11.56	1.05	0	0
	CO917	Main member	-31.79	0.01	5.77	-5.58	-0.2
	CO917	Connected member	8.37	-5.79	-1.06	0	0
21	CO917	Connected member	-13.32	5.88	1.08	0	0
	CO918	Main member	-39.88	0.02	5.71	-5.35	-0.21
	CO918	Connected member	8.64	-5.79	-1.06	0	0
21	CO918	Connected member	-16.12	5.89	1.08	0	0
	CO919	Main member	-31.21	0.02	5.73	-5.5	-0.2
	CO919	Connected member	9.37	-5.79	-1.06	0	0
21	CO919	Connected member	-13.96	5.88	1.08	0	0
	CO920	Main member	-39.23	0	5.77	-5.45	-0.21
	CO920	Connected member	7.46	-5.79	-1.06	0	0
21	CO920	Connected member	-14.97	5.88	1.08	0	0
	CO921	Main member	-8.73	1.75	-7.14	8.22	4.87
	CO921	Connected member	-31.08	10.61	-1.1	0	0
21	CO921	Connected member	13.93	-6.38	1.05	0	0
	CO922	Main member	-9.45	1.72	-7.11	8.39	4.94
	CO922	Connected member	-32.11	10.62	-1.1	0	0
21	CO922	Connected member	13.84	-6.38	1.05	0	0
	CO923	Main member	-9.09	1.79	-7.11	8.37	5.1
	CO923	Connected member	-31.27	10.62	-1.1	0	0
21	CO923	Connected member	13.83	-6.38	1.05	0	0
	CO924	Main member	-7.89	1.71	-7.12	8.58	4.99
	CO924	Connected member	-32.55	10.62	-1.1	0	0
21	CO924	Connected member	14.23	-6.37	1.05	0	0
	CO925	Main member	-14.13	1.35	-12.34	14.12	3.76
	CO925	Connected member	-17.8	15.61	-1.07	0	0
	CO925	Connected member	7.68	-11.56	1.05	0	0



::LAV/team::

Page: 67/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO926	Main member	-30.87	0.01	5.77	-5.58	-0.19
	CO926	Connected member	8.42	-5.79	-1.06	0	0
	CO926	Connected member	-13.09	5.87	1.08	0	0
21	CO927	Main member	-38.95	0.02	5.72	-5.36	-0.21
	CO927	Connected member	8.7	-5.79	-1.06	0	0
	CO927	Connected member	-15.89	5.89	1.08	0	0
21	CO928	Main member	-31.94	0.02	5.73	-5.49	-0.2
	CO928	Connected member	9.3	-5.79	-1.06	0	0
	CO928	Connected member	-14.15	5.88	1.08	0	0
21	CO929	Main member	-39.97	0	5.77	-5.44	-0.21
	CO929	Connected member	7.39	-5.79	-1.06	0	0
	CO929	Connected member	-15.16	5.88	1.08	0	0
21	CO930	Main member	-9.47	1.75	-7.15	8.24	4.87
	CO930	Connected member	-31.13	10.61	-1.1	0	0
	CO930	Connected member	13.74	-6.38	1.05	0	0
21	CO931	Main member	-10.19	1.72	-7.11	8.41	4.94
	CO931	Connected member	-32.17	10.62	-1.1	0	0
	CO931	Connected member	13.65	-6.38	1.05	0	0
21	CO932	Main member	-9.83	1.79	-7.11	8.39	5.1
	CO932	Connected member	-31.32	10.62	-1.1	0	0
	CO932	Connected member	13.64	-6.38	1.05	0	0
21	CO933	Main member	-8.63	1.71	-7.12	8.6	4.99
	CO933	Connected member	-32.61	10.62	-1.1	0	0
	CO933	Connected member	14.04	-6.37	1.05	0	0
21	CO934	Main member	-14.87	1.35	-12.35	14.14	3.76
	CO934	Connected member	-17.86	15.61	-1.07	0	0
	CO934	Connected member	7.49	-11.56	1.05	0	0
21	CO935	Main member	-31.6	0.01	5.77	-5.57	-0.19
	CO935	Connected member	8.35	-5.79	-1.06	0	0
	CO935	Connected member	-13.28	5.87	1.08	0	0
21	CO936	Main member	-39.69	0.02	5.72	-5.35	-0.21
	CO936	Connected member	8.63	-5.79	-1.06	0	0
	CO936	Connected member	-16.08	5.89	1.08	0	0
21	CO937	Main member	-13.83	0.02	-0.07	0.46	0.07
	CO937	Connected member	-2.62	0	-1.07	0	0
	CO937	Connected member	-4.77	0	1.08	0	0
21	CO938	Main member	-14.75	0.02	-0.08	0.42	0.04
	CO938	Connected member	-2.6	0	-1.07	0	0
	CO938	Connected member	-4.97	0	1.08	0	0
21	CO939	Main member	-14.94	0.02	-0.09	0.41	0.03
	CO939	Connected member	-2.59	0	-1.07	0	0
	CO939	Connected member	-5.01	0	1.08	0	0
21	CO940	Main member	-14.01	0.02	-0.07	0.45	0.06
	CO940	Connected member	-2.61	0	-1.07	0	0
	CO940	Connected member	-4.81	0	1.08	0	0
21	CO941	Main member	-13.95	0.02	-0.07	0.45	0.06
	CO941	Connected member	-2.61	0	-1.07	0	0
	CO941	Connected member	-4.79	0	1.08	0	0
21	CO942	Main member	-14.25	0.02	-0.07	0.46	0.06
	CO942	Connected member	-2.64	0	-1.07	0	0
	CO942	Connected member	-4.87	0	1.08	0	0
21	CO943	Main member	-14.88	0.02	-0.08	0.41	0.03
	CO943	Connected member	-2.6	0	-1.07	0	0
	CO943	Connected member	-5	0	1.08	0	0
21	CO944	Main member	-15.17	0.02	-0.08	0.42	0.03
	CO944	Connected member	-2.62	0	-1.07	0	0
	CO944	Connected member	-5.07	0	1.08	0	0
21	CO945	Main member	-15.06	0.02	-0.09	0.4	0.03
	CO945	Connected member	-2.59	0	-1.07	0	0
	CO945	Connected member	-5.04	0	1.08	0	0
21	CO946	Main member	-15.36	0.02	-0.09	0.41	0.03
	CO946	Connected member	-2.61	0	-1.07	0	0
	CO946	Connected member	-5.11	0	1.08	0	0
21	CO947	Main member	-14.14	0.02	-0.08	0.44	0.05
	CO947	Connected member	-2.6	0	-1.07	0	0
	CO947	Connected member	-4.83	0	1.08	0	0
21	CO948	Main member	-14.43	0.02	-0.08	0.45	0.05
	CO948	Connected member	-2.63	0	-1.07	0	0
	CO948	Connected member	-4.91	0	1.08	0	0
21	CO949	Main member	-17.24	0.02	1.09	-0.73	0.01
	CO949	Connected member	-0.22	-1.16	-1.07	0	0
	CO949	Connected member	-6.6	1.17	1.08	0	0
21	CO950	Main member	-18.86	0.02	1.09	-0.71	0.01
	CO950	Connected member	-0.6	-1.17	-1.07	0	0
	CO950	Connected member	-6.81	1.17	1.08	0	0
21	CO951	Main member	-12.75	0.37	-1.48	2.01	1.03
	CO951	Connected member	-8.32	2.09	-1.08	0	0
	CO951	Connected member	-1.03	-1.29	1.07	0	0
21	CO952	Main member	-12.89	0.36	-1.48	2.04	1.04
	CO952	Connected member	-8.56	2.09	-1.08	0	0
	CO952	Connected member	-1.02	-1.29	1.07	0	0
21	CO953	Main member	-12.81	0.38	-1.48	2.03	1.07
	CO953	Connected member	-8.39	2.09	-1.08	0	0
	CO953	Connected member	-1.03	-1.29	1.07	0	0
21	CO954	Main member	-12.57	0.36	-1.48	2.07	1.05
	CO954	Connected member	-8.68	2.09	-1.08	0	0
	CO954	Connected member	-0.93	-1.29	1.07	0	0
21	CO955	Main member	-13.83	0.29	-2.52	3.16	0.81
	CO955	Connected member	-5.72	3.1	-1.08	0	0
	CO955	Connected member	-2.26	-2.33	1.07	0	0
21	CO956	Main member	-17.18	0.02	1.1	-0.74	0.02
	CO956	Connected member	-0.41	-1.16	-1.07	0	0
	CO956	Connected member	-6.43	1.17	1.08	0	0
21	CO957	Main member	-18.8	0.02	1.08	-0.69	0.01



::LAV/team::

Page: 68/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
21	CO957	Connected member	-0.35	-1.16	-1.07	0	0
	CO957	Connected member	-6.99	1.17	1.08	0	0
	CO958	Main member	-18.17	0.02	1.08	-0.76	-0.01
21	CO958	Connected member	-0.2	-1.16	-1.07	0	0
	CO958	Connected member	-6.8	1.17	1.08	0	0
	CO959	Main member	-19.79	0.01	1.08	-0.74	-0.01
21	CO959	Connected member	-0.58	-1.16	-1.07	0	0
	CO959	Connected member	-7.01	1.17	1.08	0	0
	CO960	Main member	-13.67	0.36	-1.5	1.97	1
21	CO960	Connected member	-8.32	2.09	-1.08	0	0
	CO960	Connected member	-1.22	-1.29	1.07	0	0
	CO961	Main member	-13.81	0.36	-1.49	2	1.01
21	CO961	Connected member	-8.56	2.09	-1.08	0	0
	CO961	Connected member	-1.22	-1.29	1.07	0	0
	CO962	Main member	-13.74	0.37	-1.49	1.99	1.05
21	CO962	Connected member	-8.39	2.09	-1.08	0	0
	CO962	Connected member	-1.22	-1.29	1.07	0	0
	CO963	Main member	-13.5	0.36	-1.49	2.03	1.02
21	CO963	Connected member	-8.68	2.09	-1.08	0	0
	CO963	Connected member	-1.12	-1.29	1.07	0	0
	CO964	Main member	-14.75	0.29	-2.53	3.12	0.78
21	CO964	Connected member	-5.72	3.1	-1.08	0	0
	CO964	Connected member	-2.45	-2.33	1.07	0	0
	CO965	Main member	-18.11	0.02	1.08	-0.77	-0.01
21	CO965	Connected member	-0.39	-1.16	-1.07	0	0
	CO965	Connected member	-6.63	1.17	1.08	0	0
	CO966	Main member	-19.73	0.02	1.07	-0.73	-0.01
21	CO966	Connected member	-0.34	-1.16	-1.07	0	0
	CO966	Connected member	-7.19	1.17	1.08	0	0
	CO967	Main member	-18.36	0.02	1.07	-0.77	-0.02
21	CO967	Connected member	-0.19	-1.16	-1.07	0	0
	CO967	Connected member	-6.84	1.17	1.08	0	0
	CO968	Main member	-19.98	0.01	1.08	-0.75	-0.02
21	CO968	Connected member	-0.57	-1.16	-1.07	0	0
	CO968	Connected member	-7.05	1.17	1.08	0	0
	CO969	Main member	-13.86	0.36	-1.5	1.96	0.99
21	CO969	Connected member	-8.31	2.09	-1.08	0	0
	CO969	Connected member	-1.26	-1.29	1.07	0	0
	CO970	Main member	-14	0.36	-1.49	1.99	1
21	CO970	Connected member	-8.55	2.09	-1.08	0	0
	CO970	Connected member	-1.25	-1.29	1.07	0	0
	CO971	Main member	-13.92	0.37	-1.49	1.98	1.04
21	CO971	Connected member	-8.38	2.09	-1.08	0	0
	CO971	Connected member	-1.26	-1.29	1.07	0	0
	CO972	Main member	-13.68	0.36	-1.49	2.02	1.01
21	CO972	Connected member	-8.67	2.09	-1.08	0	0
	CO972	Connected member	-1.16	-1.29	1.07	0	0
	CO973	Main member	-14.94	0.29	-2.53	3.11	0.78
21	CO973	Connected member	-5.71	3.1	-1.08	0	0
	CO973	Connected member	-2.49	-2.33	1.07	0	0
	CO974	Main member	-18.3	0.01	1.08	-0.78	-0.02
21	CO974	Connected member	-0.38	-1.16	-1.07	0	0
	CO974	Connected member	-6.67	1.17	1.08	0	0
	CO975	Main member	-19.91	0.02	1.07	-0.74	-0.02
21	CO975	Connected member	-0.33	-1.16	-1.07	0	0
	CO975	Connected member	-7.23	1.17	1.08	0	0
	CO976	Main member	-17.43	0.02	1.08	-0.74	0.01
21	CO976	Connected member	-0.21	-1.16	-1.07	0	0
	CO976	Connected member	-6.64	1.17	1.08	0	0
	CO977	Main member	-19.05	0.02	1.09	-0.71	0.01
21	CO977	Connected member	-0.59	-1.17	-1.07	0	0
	CO977	Connected member	-6.85	1.17	1.08	0	0
	CO978	Main member	-12.93	0.37	-1.49	2	1.02
21	CO978	Connected member	-8.31	2.09	-1.08	0	0
	CO978	Connected member	-1.06	-1.29	1.07	0	0
	CO979	Main member	-13.07	0.36	-1.48	2.03	1.03
21	CO979	Connected member	-8.55	2.09	-1.08	0	0
	CO979	Connected member	-1.06	-1.29	1.07	0	0
	CO980	Main member	-13	0.38	-1.48	2.02	1.07
21	CO980	Connected member	-8.38	2.09	-1.08	0	0
	CO980	Connected member	-1.06	-1.29	1.07	0	0
	CO981	Main member	-12.76	0.36	-1.48	2.06	1.04
21	CO981	Connected member	-8.67	2.09	-1.08	0	0
	CO981	Connected member	-0.96	-1.29	1.07	0	0
	CO982	Main member	-14.01	0.29	-2.52	3.15	0.8
21	CO982	Connected member	-5.72	3.1	-1.08	0	0
	CO982	Connected member	-2.29	-2.33	1.07	0	0
	CO983	Main member	-17.37	0.02	1.09	-0.75	0.01
21	CO983	Connected member	-0.4	-1.16	-1.07	0	0
	CO983	Connected member	-6.47	1.17	1.08	0	0
	CO984	Main member	-18.98	0.02	1.08	-0.7	0.01
21	CO984	Connected member	-0.34	-1.16	-1.07	0	0
	CO984	Connected member	-7.03	1.17	1.08	0	0

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit	
Basic Geometry of the Joint				
Main member				
Member				
Length	l	7.3	m	
Height	h	360	mm	



::LAVteam::

Page: 69/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

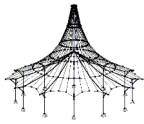
Date: 16/07/2023

Sample structures

main model

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Thickness	t	360	mm
Cross-Sectional Area	A	1296	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	328	mm
Thickness	t	12	mm
Cross-Sectional Area	A	39.36	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	4	
Number of bolt rows (z-direction)	n _{dz}	2	
Distance between bolt columns	a ₁	96	mm
Distance between bolt rows	a ₂	232	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	112	mm
Distance between fastener and edge No. 1	a _{4,1}	64	mm
Distance between fastener and edge No. 2	a _{4,2}	64	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	662.14	MN/m
Slip Modulus for ULS	K _u	339.56	MN/m
Polar moment of inertia	I _p	1998.08	cm ²
Rotation Modulus for SLS	C _{ser}	16.54	MNm/rad
Rotation Modulus for ULS	C _u	8.48	MNm/rad
Bolts			
Total number of bolts		8	
Bolt types		1	
Diameter	d	16	mm
Area	A	2.01	cm ²
Length	l	360	mm
Connected Member No. 1			
Member			
Length	l	8.85	m
Height	h	300	mm
Thickness	t	340	mm
Cross-Sectional Area	A	1020	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	96	mm
Thickness	t	12	mm
Cross-Sectional Area	A	11.52	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	3	
Number of bolt rows (z-direction)	n _{dz}	1	
Distance between bolt columns	a ₁	72	mm
Distance between bolt rows	a ₂	0	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	84	mm
Distance between fastener and edge No. 1	a _{4,1}	150	mm
Distance between fastener and edge No. 2	a _{4,2}	150	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	53.89	MN/m
Slip Modulus for ULS	K _u	27.64	MN/m
Polar moment of inertia	I _p	103.68	cm ²
Rotation Modulus for SLS	C _{ser}	0.19	MNm/rad
Rotation Modulus for ULS	C _u	0.1	MNm/rad
Bolts			
Total number of bolts		3	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	340	mm
Connected Member No. 2			
Member			
Length	l	8.85	m
Height	h	300	mm
Thickness	t	340	mm
Cross-Sectional Area	A	1020	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	96	mm
Thickness	t	12	mm
Cross-Sectional Area	A	11.52	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	3	
Number of bolt rows (z-direction)	n _{dz}	1	
Distance between bolt columns	a ₁	72	mm
Distance between bolt rows	a ₂	0	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	84	mm
Distance between fastener and edge No. 1	a _{4,1}	150	mm
Distance between fastener and edge No. 2	a _{4,2}	150	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	53.89	MN/m
Slip Modulus for ULS	K _u	27.64	MN/m
Polar moment of inertia	I _p	103.68	cm ²
Rotation Modulus for SLS	C _{ser}	0.19	MNm/rad



::LAVteam::

Page: 70/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Rotation Modulus for ULS	C_u	0.1	MNm/rad
Bolts			
Total number of bolts		3	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	340	mm

2.1 SUMMARY

	Governing Node	Load Case	Check Ratio	Check formula
Main member				
21	CO264	0.30	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
21	CO594	0.29	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
21	CO984	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
21	CO273	0.03	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
21	CO273	0.02	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
21	CO594	0.09	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
21	CO594	0.18	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
21	CO594	0.09	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
21	CO264	0.22	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
21	CO594	0.13	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
21	LC14	0.02	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
21	CO209	0.02	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
21	CO272	0.01	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
Connected Member No. 1				
21	CO273	0.34	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
21	CO273	0.91	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
21	CO273	0.16	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
21	CO1	0.04	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
21	CO1	0.07	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
21	CO1	0.14	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
21	CO984	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
21	CO1	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
21	CO309	0.01	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
21	CO273	0.18	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
21	LC18	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
21	CO571	0.06	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
21	CO571	0.05	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
21	CO571	0.02	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
21	LC15	0.57	≤ 1	6031) Bolt group - Multiple fastener connection acc. to 8.1.2 and 8.5.1.1.(4)
21	LC15	0.57	≤ 1	6032) Bolt group - Bolt force component parallel to grain acc. to 8.1.2 and 8.5.1.1.(4)
21	LC15	0.02	≤ 1	6141) Timber cross-section - Compression in net cross-section acc. to 6.1.4
21	CO259	0.02	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
Connected Member No. 2				
21	CO276	0.09	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
21	CO276	0.25	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
21	CO276	0.50	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
21	CO276	0.08	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
21	CO7	0.04	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
21	CO7	0.07	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
21	CO7	0.14	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
21	CO984	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
21	CO7	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
21	CO276	0.01	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
21	LC18	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
21	LC15	0.36	≤ 1	6031) Bolt group - Multiple fastener connection acc. to 8.1.2 and 8.5.1.1.(4)
21	LC15	0.36	≤ 1	6032) Bolt group - Bolt force component parallel to grain acc. to 8.1.2 and 8.5.1.1.(4)
21	CO522	0.09	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
21	CO522	0.07	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
21	CO522	0.03	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
21	LC15	0.01	≤ 1	6140) Timber cross-section - Tension in net cross-section acc. to 6.1.2
21	CO210	0.02	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3



::LAV/team::

Page: 71/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

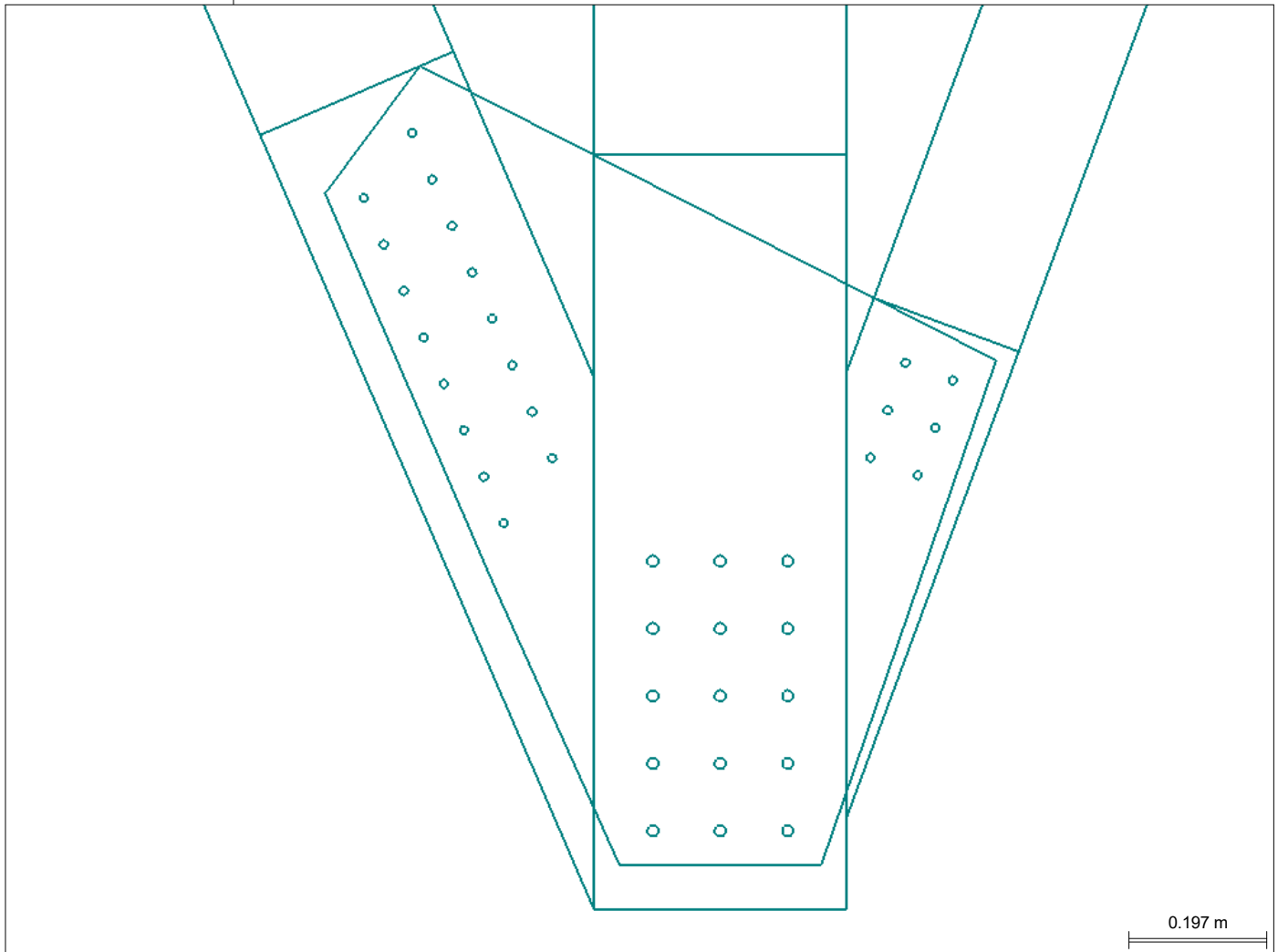
JOINTS
CA3
Design of Joints

1.1 GENERAL DATA

JOINTS CA3

	Settings for	Details
Design Standard	EN 1995-1-1:2004-11	
National Annex	CEN	
Type of connection	JOINTS - Steel to timber - Bolts	
Input Data	Import from model	
Comment	Nudo de base de pilares plano del portico (portico interior)	

1.2 VIEW OF CONNECTION



1.3 NODES AND MEMBERS

Node No.	Member No.	Member Type	Cross-section	Material	Angle [°]
62	114	Connected member	T-Rectangle 250/300	Hardwood Timber D70	23.34
	115	Connected member	T-Rectangle 180/220	Hardwood Timber D70	20.30
	651	Main member	T-Rectangle 360/360	Hardwood Timber D70	

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	LC1	Connected member	-27.5	0	-1.09	-1.25	-0.01
	LC1	Connected member	-8.85	0	-0.55	-0.78	0
	LC1	Main member	-13.17	-0.01	0.07	0.47	0.01
62	CO1	Connected member	-36.99	0	-1.47	-1.7	-0.01
	CO1	Connected member	-11.95	0	-0.74	-1.06	0
	CO1	Main member	-17.71	-0.01	0.1	0.64	0.01
62	LC2	Connected member	-16.61	0	0.04	0.08	0
	LC2	Connected member	-7.9	0	0.01	0.04	0
	LC2	Main member	-0.54	0	0.01	-0.04	0
62	CO2	Connected member	-59.33	0	-1.42	-1.6	-0.02
	CO2	Connected member	-22.6	0	-0.72	-1.01	0



::LAV/team::

Page: 72/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO2	Main member	-18.49	-0.01	0.11	0.59	0.01
	LC3	Connected member	-4.52	0	0.01	0.02	0
	LC3	Connected member	-2.14	0	0	0.01	0
62	LC3	Main member	-0.1	0	0	-0.01	0
	CO3	Connected member	-65.41	0	-1.4	-1.57	-0.02
	CO3	Connected member	-25.49	0	-0.72	-1	0
62	CO3	Main member	-18.64	-0.01	0.12	0.57	0.01
	LC4	Connected member	-30.16	0	0.07	0.15	-0.01
	LC4	Connected member	-14.28	0	0.02	0.07	0
62	LC4	Main member	-0.68	0	0.02	-0.07	0.01
	CO4	Connected member	-43.07	0	-1.46	-1.67	-0.01
	CO4	Connected member	-14.84	0	-0.73	-1.05	0
62	CO4	Main member	-17.86	-0.01	0.1	0.62	0.01
	LC5	Connected member	-15.08	0	0.04	0.07	0
	LC5	Connected member	-7.14	0	0.01	0.04	0
62	LC5	Main member	-0.34	0	0.01	-0.04	0
	CO5	Connected member	-82.04	0	-1.36	-1.49	-0.02
	CO5	Connected member	-33.36	0	-0.71	-0.96	0
62	CO5	Main member	-18.83	-0.01	0.13	0.53	0.02
	LC6	Connected member	-43.28	0.05	-0.43	-3.04	-0.1
	LC6	Connected member	12.94	0	0.22	1.16	0.01
62	LC6	Main member	16.36	0	5.35	4.2	0.09
	CO6	Connected member	-104.38	0.01	-1.31	-1.39	-0.03
	CO6	Connected member	-44.01	0	-0.7	-0.91	0
62	CO6	Main member	-19.61	-0.01	0.14	0.48	0.02
	LC7	Connected member	-8.1	0.04	-0.52	-3.22	-0.08
	LC7	Connected member	30.51	-0.01	0.2	1.08	0.02
62	LC7	Main member	18.72	0.01	5.34	4.3	0.08
	CO7	Connected member	-110.46	0.01	-1.3	-1.36	-0.03
	CO7	Connected member	-46.9	0	-0.7	-0.9	0
62	CO7	Main member	-19.76	-0.01	0.15	0.46	0.02
	LC8	Connected member	-0.62	0.39	-1.47	-8.23	-3.22
	LC8	Connected member	28.43	0.05	0.46	2.45	-0.16
62	LC8	Main member	-0.28	-1.41	12.43	10.68	2.72
	CO8	Connected member	-88.12	0	-1.35	-1.46	-0.02
	CO8	Connected member	-36.25	0	-0.71	-0.95	0
62	CO8	Main member	-18.99	-0.01	0.13	0.52	0.02
	LC9	Connected member	43.81	0.38	-1.57	-8.41	-3.18
	LC9	Connected member	23.84	0.05	0.46	2.4	-0.16
62	LC9	Main member	-0.52	-1.38	12.39	10.81	2.68
	CO9	Connected member	-115.65	0.01	-1.28	-1.34	-0.03
	CO9	Connected member	-49.37	0	-0.69	-0.89	0
62	CO9	Main member	-19.89	-0.01	0.15	0.45	0.02
	CO10	Connected member	-112.77	0.01	-1.29	-1.33	-0.03
	CO10	Connected member	-46.68	0	-0.7	-0.9	0
62	CO10	Main member	-18.96	-0.01	0.14	0.44	0.02
	CO11	Connected member	-121.73	0.01	-1.27	-1.31	-0.03
	CO11	Connected member	-52.26	0	-0.69	-0.88	0
62	CO11	Main member	-20.04	-0.01	0.15	0.43	0.02
	CO12	Connected member	-118.86	0.01	-1.27	-1.3	-0.03
	CO12	Connected member	-49.58	0	-0.69	-0.88	0
62	CO12	Main member	-19.11	-0.01	0.15	0.42	0.02
	LC13	Connected member	-11.23	0	0.03	0.08	0
	LC13	Connected member	-3.56	0	0.01	0.03	0
62	LC13	Main member	0.91	0	0	-0.05	0
	CO13	Connected member	-99.39	0.01	-1.32	-1.41	-0.02
	CO13	Connected member	-41.6	0	-0.7	-0.92	0
62	CO13	Main member	-19.27	-0.01	0.14	0.49	0.02
	LC14	Connected member	44.36	0.39	-1.57	-8.43	-3.22
	LC14	Connected member	24.87	0.05	0.45	2.39	-0.19
62	LC14	Main member	-0.62	-1.4	12.4	10.82	2.69
	CO14	Connected member	-96.52	0	-1.32	-1.41	-0.02
	CO14	Connected member	-38.92	0	-0.7	-0.93	0
62	CO14	Main member	-18.33	-0.01	0.13	0.48	0.02
	LC15	Connected member	86.2	0.39	-1.68	-8.68	-3.2
	LC15	Connected member	43.96	0.04	0.43	2.29	-0.15
62	LC15	Main member	0.37	-1.38	12.4	10.97	2.71
	CO15	Connected member	-154.78	0.05	-1.55	-3.97	-0.13
	CO15	Connected member	-37.7	0	-0.53	0.14	0.01
62	CO15	Main member	-5.28	-0.01	4.94	4.11	0.12
	LC16	Connected member	82.72	0.33	-2.85	-15.25	-2.63
	LC16	Connected member	47.36	0.03	0.82	4.32	-0.1
62	LC16	Main member	-0.54	-1.13	22.4	19.57	2.24
	CO16	Connected member	-123.22	0.05	-1.65	-4.14	-0.11
	CO16	Connected member	-21.9	-0.01	-0.53	0.08	0.02
62	CO16	Main member	-3.11	0	4.93	4.22	0.1
	LC17	Connected member	-29.33	0.05	-0.49	-3.19	-0.09
	LC17	Connected member	12.91	0	0.22	1.14	0.01
62	LC17	Main member	12.9	0	5.36	4.32	0.08
	CO17	Connected member	-116.25	0.18	-2.39	-8.57	-2.72
	CO17	Connected member	-23.72	0.04	-0.32	1.3	-0.14
62	CO17	Main member	-20.12	-1.27	11.31	9.87	2.29
	LC18	Connected member	-23.31	0.05	-0.46	-3.08	-0.09
	LC18	Connected member	29.94	-0.01	0.21	1.1	0.01
62	LC18	Main member	22.11	0.01	5.33	4.18	0.08
	CO18	Connected member	-76.41	0.23	-2.55	-8.79	-2.74
	CO18	Connected member	-27.86	0.04	-0.33	1.24	-0.14
62	CO18	Main member	-20.24	-1.25	11.29	10.03	2.3
	CO19	Connected member	-75.93	0.24	-2.55	-8.8	-2.77
	CO19	Connected member	-26.93	0.05	-0.33	1.24	-0.16
62	CO19	Main member	-20.32	-1.26	11.29	10.04	2.31
	CO20	Connected member	-38.41	0.3	-2.72	-9.05	-2.81
	CO20	Connected member	-9.76	0.04	-0.33	1.18	-0.13
62	CO20	Main member	-19.35	-1.25	11.3	10.23	2.38



::LAV/team::

Page: 73/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO21	Connected member	-41.57	0.25	-3.7	-14.91	-2.3
	CO21	Connected member	-6.66	0.03	0.02	3	-0.09
	CO21	Main member	-20.11	-1.02	20.3	17.91	1.97
62	CO22	Connected member	-142.25	0.05	-1.61	-4.11	-0.13
	CO22	Connected member	-37.73	0	-0.53	0.11	0.01
	CO22	Main member	-8.33	-0.01	4.96	4.22	0.11
62	CO23	Connected member	-136.88	0.05	-1.59	-4.01	-0.12
	CO23	Connected member	-22.41	0	-0.53	0.1	0.01
	CO23	Main member	-0.12	0	4.92	4.11	0.11
62	CO24	Connected member	-151.9	0.05	-1.55	-3.97	-0.13
	CO24	Connected member	-35.02	0	-0.53	0.13	0.01
	CO24	Main member	-4.35	-0.01	4.93	4.1	0.12
62	CO25	Connected member	-120.34	0.05	-1.65	-4.14	-0.11
	CO25	Connected member	-19.22	-0.01	-0.53	0.07	0.02
	CO25	Main member	-2.18	0	4.93	4.21	0.1
62	CO26	Connected member	-113.38	0.18	-2.39	-8.57	-2.72
	CO26	Connected member	-21.04	0.04	-0.32	1.3	-0.14
	CO26	Main member	-19.18	-1.27	11.3	9.87	2.29
62	CO27	Connected member	-73.53	0.24	-2.56	-8.79	-2.74
	CO27	Connected member	-25.18	0.04	-0.33	1.24	-0.14
	CO27	Main member	-19.3	-1.25	11.28	10.02	2.31
62	CO28	Connected member	-73.05	0.24	-2.56	-8.8	-2.77
	CO28	Connected member	-24.25	0.05	-0.33	1.23	-0.16
	CO28	Main member	-19.39	-1.26	11.28	10.03	2.32
62	CO29	Connected member	-35.54	0.3	-2.72	-9.05	-2.82
	CO29	Connected member	-7.08	0.04	-0.32	1.17	-0.13
	CO29	Main member	-18.42	-1.25	11.29	10.22	2.39
62	CO30	Connected member	-38.69	0.26	-3.71	-14.91	-2.31
	CO30	Connected member	-3.98	0.03	0.03	3	-0.09
	CO30	Main member	-19.18	-1.02	20.29	17.91	1.97
62	CO31	Connected member	-139.37	0.05	-1.61	-4.11	-0.12
	CO31	Connected member	-35.05	0	-0.53	0.11	0.01
	CO31	Main member	-7.4	-0.01	4.95	4.21	0.11
62	CO32	Connected member	-134	0.05	-1.59	-4	-0.12
	CO32	Connected member	-19.73	0	-0.53	0.09	0.01
	CO32	Main member	0.81	0	4.91	4.1	0.11
62	CO33	Connected member	-160.87	0.05	-1.53	-3.94	-0.14
	CO33	Connected member	-40.59	0	-0.53	0.15	0.01
	CO33	Main member	-5.43	-0.01	4.94	4.08	0.12
62	CO34	Connected member	-129.31	0.05	-1.63	-4.11	-0.11
	CO34	Connected member	-24.79	-0.01	-0.53	0.09	0.02
	CO34	Main member	-3.26	0	4.94	4.2	0.11
62	CO35	Connected member	-122.34	0.17	-2.36	-8.53	-2.71
	CO35	Connected member	-26.61	0.04	-0.32	1.31	-0.14
	CO35	Main member	-20.27	-1.27	11.31	9.84	2.28
62	CO36	Connected member	-82.49	0.22	-2.52	-8.75	-2.73
	CO36	Connected member	-30.75	0.04	-0.34	1.25	-0.14
	CO36	Main member	-20.39	-1.25	11.29	10	2.3
62	CO37	Connected member	-82.01	0.23	-2.53	-8.76	-2.76
	CO37	Connected member	-29.82	0.05	-0.34	1.25	-0.16
	CO37	Main member	-20.47	-1.26	11.29	10.01	2.31
62	CO38	Connected member	-44.49	0.29	-2.69	-9.02	-2.8
	CO38	Connected member	-12.65	0.04	-0.33	1.19	-0.13
	CO38	Main member	-19.5	-1.25	11.3	10.2	2.37
62	CO39	Connected member	-47.65	0.25	-3.66	-14.87	-2.3
	CO39	Connected member	-9.55	0.03	0.02	3.01	-0.09
	CO39	Main member	-20.27	-1.02	20.3	17.88	1.96
62	CO40	Connected member	-148.34	0.05	-1.59	-4.08	-0.13
	CO40	Connected member	-40.62	0	-0.53	0.12	0.01
	CO40	Main member	-8.48	-0.01	4.96	4.2	0.11
62	CO41	Connected member	-142.97	0.05	-1.57	-3.97	-0.12
	CO41	Connected member	-25.3	0	-0.53	0.11	0.01
	CO41	Main member	-0.27	0	4.92	4.09	0.11
62	CO42	Connected member	-157.99	0.05	-1.53	-3.94	-0.13
	CO42	Connected member	-37.91	0	-0.53	0.14	0.01
	CO42	Main member	-4.5	-0.01	4.93	4.08	0.12
62	CO43	Connected member	-126.43	0.05	-1.63	-4.11	-0.11
	CO43	Connected member	-22.11	-0.01	-0.53	0.08	0.02
	CO43	Main member	-2.33	0	4.93	4.19	0.1
62	CO44	Connected member	-119.46	0.17	-2.37	-8.53	-2.71
	CO44	Connected member	-23.93	0.04	-0.32	1.31	-0.14
	CO44	Main member	-19.33	-1.27	11.31	9.84	2.29
62	CO45	Connected member	-79.61	0.23	-2.53	-8.75	-2.73
	CO45	Connected member	-28.07	0.04	-0.33	1.25	-0.14
	CO45	Main member	-19.46	-1.25	11.28	10	2.3
62	CO46	Connected member	-79.13	0.23	-2.53	-8.76	-2.77
	CO46	Connected member	-27.14	0.05	-0.33	1.24	-0.16
	CO46	Main member	-19.54	-1.26	11.29	10	2.31
62	CO47	Connected member	-41.62	0.29	-2.7	-9.02	-2.81
	CO47	Connected member	-9.97	0.04	-0.32	1.18	-0.13
	CO47	Main member	-18.57	-1.25	11.29	10.2	2.38
62	CO48	Connected member	-44.77	0.25	-3.67	-14.87	-2.3
	CO48	Connected member	-6.87	0.03	0.02	3.01	-0.09
	CO48	Main member	-19.34	-1.02	20.29	17.87	1.96
62	CO49	Connected member	-145.46	0.05	-1.59	-4.07	-0.13
	CO49	Connected member	-37.94	0	-0.53	0.12	0.01
	CO49	Main member	-7.55	-0.01	4.95	4.19	0.11
62	CO50	Connected member	-140.09	0.05	-1.57	-3.97	-0.12
	CO50	Connected member	-22.62	0	-0.53	0.11	0.01
	CO50	Main member	0.66	0	4.92	4.08	0.11
62	CO51	Connected member	-138.5	0.05	-1.6	-4.06	-0.13
	CO51	Connected member	-29.94	0	-0.53	0.1	0.01
	CO51	Main member	-4.67	-0.01	4.93	4.16	0.11
62	CO52	Connected member	-106.94	0.05	-1.7	-4.23	-0.1



::LAV/team::

Page: 74/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO52	Connected member	-14.14	-0.01	-0.53	0.05	0.02
	CO52	Main member	-2.5	0	4.93	4.28	0.1
	CO53	Connected member	-100	0.2	-2.46	-8.66	-2.74
62	CO53	Connected member	-15.96	0.04	-0.31	1.28	-0.14
	CO53	Main member	-19.49	-1.27	11.3	9.94	2.31
	CO54	Connected member	-60.15	0.26	-2.62	-8.88	-2.76
62	CO54	Connected member	-20.1	0.04	-0.33	1.22	-0.14
	CO54	Main member	-19.61	-1.25	11.28	10.09	2.33
	CO55	Connected member	-59.67	0.26	-2.62	-8.89	-2.79
62	CO55	Connected member	-19.17	0.05	-0.33	1.21	-0.16
	CO55	Main member	-19.69	-1.26	11.28	10.1	2.34
	CO56	Connected member	-22.16	0.32	-2.78	-9.14	-2.83
62	CO56	Connected member	-2	0.04	-0.32	1.15	-0.13
	CO56	Main member	-18.72	-1.25	11.29	10.29	2.4
	CO57	Connected member	-25.31	0.27	-3.79	-15.01	-2.32
62	CO57	Connected member	1.1	0.03	0.04	2.98	-0.09
	CO57	Main member	-19.49	-1.02	20.29	17.99	1.98
	CO58	Connected member	-125.97	0.05	-1.66	-4.19	-0.12
62	CO58	Connected member	-29.97	0	-0.53	0.08	0.01
	CO58	Main member	-7.72	-0.01	4.95	4.28	0.11
	CO59	Connected member	-120.59	0.05	-1.64	-4.09	-0.11
62	CO59	Connected member	-14.65	0	-0.53	0.07	0.01
	CO59	Main member	0.49	0	4.91	4.16	0.1
	CO60	Connected member	-135.62	0.05	-1.61	-4.06	-0.13
62	CO60	Connected member	-27.26	0	-0.53	0.1	0.01
	CO60	Main member	-3.74	-0.01	4.92	4.15	0.11
	CO61	Connected member	-104.06	0.05	-1.71	-4.23	-0.1
62	CO61	Connected member	-11.46	-0.01	-0.53	0.04	0.02
	CO61	Main member	-1.57	0	4.92	4.27	0.1
	CO62	Connected member	-97.12	0.21	-2.46	-8.66	-2.75
62	CO62	Connected member	-13.28	0.04	-0.31	1.27	-0.14
	CO62	Main member	-18.56	-1.27	11.3	9.93	2.32
	CO63	Connected member	-57.28	0.26	-2.62	-8.88	-2.77
62	CO63	Connected member	-17.42	0.04	-0.33	1.21	-0.14
	CO63	Main member	-18.68	-1.25	11.27	10.09	2.33
	CO64	Connected member	-56.8	0.27	-2.63	-8.89	-2.8
62	CO64	Connected member	-16.49	0.05	-0.33	1.21	-0.16
	CO64	Main member	-18.76	-1.26	11.27	10.1	2.34
	CO65	Connected member	-19.29	0.32	-2.79	-9.14	-2.84
62	CO65	Connected member	0.68	0.04	-0.32	1.15	-0.13
	CO65	Main member	-17.79	-1.25	11.28	10.29	2.41
	CO66	Connected member	-22.44	0.28	-3.8	-15.01	-2.32
62	CO66	Connected member	3.78	0.03	0.05	2.98	-0.09
	CO66	Main member	-18.55	-1.02	20.28	17.99	1.98
	CO67	Connected member	-123.09	0.05	-1.67	-4.19	-0.12
62	CO67	Connected member	-27.29	0	-0.53	0.08	0.01
	CO67	Main member	-6.79	-0.01	4.94	4.27	0.1
	CO68	Connected member	-117.72	0.05	-1.64	-4.09	-0.11
62	CO68	Connected member	-11.97	0	-0.53	0.06	0.01
	CO68	Main member	1.42	0	4.9	4.15	0.1
	CO69	Connected member	-143.5	0.05	-1.59	-4.03	-0.13
62	CO69	Connected member	-32.35	0	-0.53	0.11	0.01
	CO69	Main member	-5.01	-0.01	4.93	4.14	0.11
	CO70	Connected member	-111.94	0.05	-1.69	-4.2	-0.11
62	CO70	Connected member	-16.55	-0.01	-0.53	0.06	0.02
	CO70	Main member	-2.84	0	4.93	4.26	0.1
	CO71	Connected member	-104.99	0.2	-2.43	-8.64	-2.73
62	CO71	Connected member	-18.37	0.04	-0.31	1.28	-0.14
	CO71	Main member	-19.84	-1.27	11.31	9.92	2.31
	CO72	Connected member	-65.14	0.25	-2.6	-8.85	-2.75
62	CO72	Connected member	-22.51	0.04	-0.33	1.22	-0.14
	CO72	Main member	-19.95	-1.25	11.28	10.07	2.32
	CO73	Connected member	-64.66	0.26	-2.6	-8.86	-2.79
62	CO73	Connected member	-21.58	0.05	-0.33	1.22	-0.16
	CO73	Main member	-20.04	-1.26	11.29	10.08	2.33
	CO74	Connected member	-27.15	0.31	-2.76	-9.12	-2.83
62	CO74	Connected member	-4.41	0.04	-0.32	1.16	-0.13
	CO74	Main member	-19.07	-1.25	11.29	10.27	2.39
	CO75	Connected member	-30.3	0.27	-3.76	-14.98	-2.31
62	CO75	Connected member	-1.31	0.03	0.03	2.99	-0.09
	CO75	Main member	-19.83	-1.02	20.29	17.97	1.98
	CO76	Connected member	-130.97	0.05	-1.65	-4.17	-0.12
62	CO76	Connected member	-32.38	0	-0.53	0.09	0.01
	CO76	Main member	-8.06	-0.01	4.95	4.26	0.11
	CO77	Connected member	-125.59	0.05	-1.62	-4.07	-0.12
62	CO77	Connected member	-17.06	0	-0.53	0.08	0.01
	CO77	Main member	0.15	0	4.91	4.15	0.11
	CO78	Connected member	-149.59	0.05	-1.57	-4	-0.13
62	CO78	Connected member	-35.24	0	-0.53	0.13	0.01
	CO78	Main member	-5.15	-0.01	4.93	4.12	0.12
	CO79	Connected member	-118.03	0.05	-1.67	-4.17	-0.11
62	CO79	Connected member	-19.44	-0.01	-0.53	0.07	0.02
	CO79	Main member	-2.99	0	4.93	4.24	0.1
	CO80	Connected member	-111.07	0.19	-2.41	-8.6	-2.73
62	CO80	Connected member	-21.26	0.04	-0.32	1.29	-0.14
	CO80	Main member	-19.99	-1.27	11.31	9.89	2.3
	CO81	Connected member	-71.23	0.24	-2.57	-8.82	-2.74
62	CO81	Connected member	-25.4	0.04	-0.33	1.23	-0.14
	CO81	Main member	-20.11	-1.25	11.28	10.05	2.31
	CO82	Connected member	-70.75	0.25	-2.57	-8.83	-2.78
62	CO82	Connected member	-24.47	0.05	-0.33	1.23	-0.16
	CO82	Main member	-20.19	-1.26	11.29	10.06	2.32
	CO83	Connected member	-33.23	0.3	-2.74	-9.08	-2.82
62	CO83	Connected member	-7.3	0.04	-0.32	1.17	-0.13



::LAV/team::

Page: 75/337

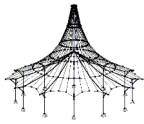
Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO83	Main member	-19.22	-1.25	11.3	10.25	2.39
	CO84	Connected member	-36.38	0.26	-3.72	-14.94	-2.31
	CO84	Connected member	-4.2	0.03	0.03	2.99	-0.09
62	CO84	Main member	-19.98	-1.02	20.29	17.94	1.97
	CO85	Connected member	-137.06	0.05	-1.63	-4.14	-0.12
	CO85	Connected member	-35.27	0	-0.53	0.1	0.01
62	CO85	Main member	-8.21	-0.01	4.95	4.24	0.11
	CO86	Connected member	-131.69	0.05	-1.6	-4.03	-0.12
	CO86	Connected member	-19.95	0	-0.53	0.09	0.01
62	CO86	Main member	0	0	4.92	4.12	0.11
	CO87	Connected member	-127.22	0.05	-1.64	-4.12	-0.12
	CO87	Connected member	-24.59	0	-0.53	0.08	0.01
62	CO87	Main member	-4.4	-0.01	4.92	4.2	0.11
	CO88	Connected member	-95.66	0.05	-1.74	-4.29	-0.1
	CO88	Connected member	-8.79	-0.01	-0.54	0.02	0.02
62	CO88	Main member	-2.23	0	4.92	4.31	0.09
	CO89	Connected member	-88.73	0.22	-2.5	-8.73	-2.76
	CO89	Connected member	-10.61	0.04	-0.31	1.26	-0.14
62	CO89	Main member	-19.21	-1.27	11.3	9.99	2.33
	CO90	Connected member	-48.89	0.27	-2.66	-8.94	-2.78
	CO90	Connected member	-14.74	0.04	-0.32	1.2	-0.14
62	CO90	Main member	-19.33	-1.25	11.27	10.14	2.34
	CO91	Connected member	-48.41	0.28	-2.67	-8.96	-2.81
	CO91	Connected member	-13.82	0.05	-0.33	1.19	-0.16
62	CO91	Main member	-19.41	-1.26	11.28	10.15	2.35
	CO92	Connected member	-10.9	0.34	-2.83	-9.2	-2.85
	CO92	Connected member	3.35	0.04	-0.32	1.13	-0.13
62	CO92	Main member	-18.44	-1.25	11.28	10.34	2.41
	CO93	Connected member	-14.05	0.29	-3.85	-15.08	-2.33
	CO93	Connected member	6.45	0.03	0.05	2.97	-0.09
62	CO93	Main member	-19.2	-1.02	20.29	18.05	1.99
	CO94	Connected member	-114.69	0.05	-1.7	-4.25	-0.11
	CO94	Connected member	-24.62	0	-0.53	0.06	0.01
62	CO94	Main member	-7.45	-0.01	4.94	4.32	0.1
	CO95	Connected member	-109.31	0.05	-1.68	-4.15	-0.11
	CO95	Connected member	-9.3	0	-0.53	0.05	0.01
62	CO95	Main member	0.76	0	4.91	4.2	0.1
	CO96	Connected member	-93.31	0	-1.34	-1.44	-0.02
	CO96	Connected member	-38.71	0	-0.71	-0.94	0
62	CO96	Main member	-19.11	-0.01	0.14	0.5	0.02
	CO97	Connected member	-90.43	0	-1.34	-1.44	-0.02
	CO97	Connected member	-36.03	0	-0.71	-0.94	0
62	CO97	Main member	-18.18	-0.01	0.13	0.49	0.02
	CO98	Connected member	-132.4	0.05	-1.62	-4.09	-0.12
	CO98	Connected member	-27.05	0	-0.53	0.09	0.01
62	CO98	Main member	-4.52	-0.01	4.93	4.18	0.11
	CO99	Connected member	-100.84	0.05	-1.72	-4.26	-0.1
	CO99	Connected member	-11.25	-0.01	-0.53	0.03	0.02
62	CO99	Main member	-2.35	0	4.92	4.3	0.1
	CO100	Connected member	-93.91	0.21	-2.48	-8.7	-2.75
	CO100	Connected member	-13.07	0.04	-0.31	1.27	-0.14
62	CO100	Main member	-19.34	-1.27	11.3	9.97	2.32
	CO101	Connected member	-54.07	0.27	-2.64	-8.91	-2.77
	CO101	Connected member	-17.21	0.04	-0.33	1.21	-0.14
62	CO101	Main member	-19.46	-1.25	11.27	10.12	2.33
	CO102	Connected member	-53.59	0.27	-2.65	-8.93	-2.8
	CO102	Connected member	-16.28	0.05	-0.33	1.2	-0.16
62	CO102	Main member	-19.54	-1.26	11.28	10.13	2.34
	CO103	Connected member	-16.08	0.33	-2.81	-9.18	-2.84
	CO103	Connected member	0.89	0.04	-0.32	1.14	-0.13
62	CO103	Main member	-18.57	-1.25	11.29	10.32	2.41
	CO104	Connected member	-19.23	0.28	-3.82	-15.05	-2.33
	CO104	Connected member	3.99	0.03	0.04	2.98	-0.09
62	CO104	Main member	-19.33	-1.02	20.29	18.03	1.99
	CO105	Connected member	-119.88	0.05	-1.68	-4.23	-0.12
	CO105	Connected member	-27.08	0	-0.53	0.07	0.01
62	CO105	Main member	-7.57	-0.01	4.94	4.3	0.1
	CO106	Connected member	-114.5	0.05	-1.66	-4.13	-0.11
	CO106	Connected member	-11.76	0	-0.53	0.06	0.01
62	CO106	Main member	0.64	0	4.91	4.18	0.1
	CO107	Connected member	-129.53	0.05	-1.63	-4.09	-0.12
	CO107	Connected member	-24.37	0	-0.53	0.09	0.01
62	CO107	Main member	-3.59	-0.01	4.92	4.18	0.11
	CO108	Connected member	-97.97	0.05	-1.72	-4.26	-0.1
	CO108	Connected member	-8.57	-0.01	-0.53	0.03	0.02
62	CO108	Main member	-1.42	0	4.91	4.29	0.09
	CO109	Connected member	-91.04	0.22	-2.49	-8.7	-2.76
	CO109	Connected member	-10.39	0.04	-0.31	1.26	-0.14
62	CO109	Main member	-18.41	-1.27	11.29	9.96	2.33
	CO110	Connected member	-51.2	0.27	-2.65	-8.91	-2.77
	CO110	Connected member	-14.53	0.04	-0.32	1.2	-0.14
62	CO110	Main member	-18.52	-1.25	11.27	10.11	2.34
	CO111	Connected member	-50.72	0.28	-2.65	-8.92	-2.81
	CO111	Connected member	-13.6	0.05	-0.32	1.2	-0.16
62	CO111	Main member	-18.61	-1.26	11.27	10.12	2.35
	CO112	Connected member	-13.21	0.33	-2.82	-9.17	-2.85
	CO112	Connected member	3.57	0.04	-0.32	1.14	-0.13
62	CO112	Main member	-17.63	-1.25	11.28	10.31	2.41
	CO113	Connected member	-16.36	0.28	-3.83	-15.05	-2.33
	CO113	Connected member	6.67	0.03	0.05	2.97	-0.09
62	CO113	Main member	-18.4	-1.02	20.28	18.02	1.99
	CO114	Connected member	-117	0.05	-1.69	-4.22	-0.11
	CO114	Connected member	-24.4	0	-0.53	0.07	0.01
62	CO114	Main member	-6.64	-0.01	4.94	4.29	0.1



::LAV/team::

Page: 76/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO115	Connected member	-111.62	0.05	-1.66	-4.12	-0.11
	CO115	Connected member	-9.08	0	-0.53	0.05	0.01
	CO115	Main member	1.57	0	4.9	4.17	0.1
62	CO116	Connected member	-121.13	0.05	-1.66	-4.15	-0.12
	CO116	Connected member	-21.7	0	-0.53	0.07	0.01
	CO116	Main member	-4.25	-0.01	4.92	4.22	0.11
62	CO117	Connected member	-89.56	0.05	-1.76	-4.32	-0.1
	CO117	Connected member	-5.9	-0.01	-0.54	0.01	0.02
	CO117	Main member	-2.08	0	4.92	4.33	0.09
62	CO118	Connected member	-82.65	0.23	-2.53	-8.77	-2.77
	CO118	Connected member	-7.72	0.04	-0.31	1.25	-0.14
	CO118	Main member	-19.06	-1.27	11.3	10.01	2.34
62	CO119	Connected member	-42.81	0.28	-2.69	-8.98	-2.79
	CO119	Connected member	-11.85	0.04	-0.32	1.19	-0.14
	CO119	Main member	-19.17	-1.25	11.27	10.16	2.35
62	CO120	Connected member	-42.33	0.29	-2.69	-8.99	-2.82
	CO120	Connected member	-10.93	0.05	-0.32	1.18	-0.16
	CO120	Main member	-19.26	-1.26	11.27	10.17	2.36
62	CO121	Connected member	-4.82	0.35	-2.86	-9.24	-2.86
	CO121	Connected member	6.24	0.04	-0.32	1.12	-0.13
	CO121	Main member	-18.28	-1.25	11.28	10.36	2.42
62	CO122	Connected member	-7.97	0.29	-3.88	-15.12	-2.34
	CO122	Connected member	9.34	0.03	0.06	2.96	-0.09
	CO122	Main member	-19.05	-1.02	20.28	18.09	1.99
62	CO123	Connected member	-108.6	0.05	-1.72	-4.29	-0.11
	CO123	Connected member	-21.73	0	-0.54	0.05	0.01
	CO123	Main member	-7.3	-0.01	4.94	4.34	0.1
62	CO124	Connected member	-103.22	0.05	-1.69	-4.18	-0.11
	CO124	Connected member	-6.41	0	-0.53	0.04	0.01
	CO124	Main member	0.91	0	4.9	4.22	0.1
62	CO125	Connected member	-59.52	0	-1.42	-1.6	-0.02
	CO125	Connected member	-22.65	0	-0.72	-1.01	0
	CO125	Main member	-18.27	-0.01	0.11	0.58	0.01
62	CO126	Connected member	-53.77	0	-1.42	-1.59	-0.01
	CO126	Connected member	-17.29	0	-0.73	-1.03	0
	CO126	Main member	-16.41	-0.01	0.1	0.56	0.01
62	CO127	Connected member	-81.85	0	-1.36	-1.49	-0.02
	CO127	Connected member	-33.31	0	-0.71	-0.96	0
	CO127	Main member	-19.05	-0.01	0.13	0.53	0.02
62	CO128	Connected member	-76.11	0	-1.37	-1.49	-0.02
	CO128	Connected member	-27.94	0	-0.72	-0.98	0
	CO128	Main member	-17.19	-0.01	0.11	0.51	0.02
62	CO129	Connected member	-87.93	0	-1.35	-1.47	-0.02
	CO129	Connected member	-36.2	0	-0.71	-0.95	0
	CO129	Main member	-19.2	-0.01	0.13	0.52	0.02
62	CO130	Connected member	-82.19	0	-1.35	-1.46	-0.02
	CO130	Connected member	-30.83	0	-0.71	-0.96	0
	CO130	Main member	-17.34	-0.01	0.12	0.5	0.02
62	CO131	Connected member	-65.6	0	-1.4	-1.57	-0.02
	CO131	Connected member	-25.54	0	-0.72	-1	0
	CO131	Main member	-18.42	-0.01	0.12	0.57	0.01
62	CO132	Connected member	-59.85	0	-1.41	-1.56	-0.02
	CO132	Connected member	-20.18	0	-0.72	-1.01	0
	CO132	Main member	-16.56	-0.01	0.1	0.55	0.01
62	CO133	Connected member	-120.94	0.05	-1.66	-4.15	-0.12
	CO133	Connected member	-21.64	0	-0.53	0.07	0.01
	CO133	Main member	-4.46	-0.01	4.92	4.22	0.11
62	CO134	Connected member	-89.38	0.05	-1.76	-4.32	-0.1
	CO134	Connected member	-5.84	-0.01	-0.54	0.01	0.02
	CO134	Main member	-2.3	0	4.92	4.33	0.09
62	CO135	Connected member	-82.46	0.23	-2.53	-8.77	-2.77
	CO135	Connected member	-7.67	0.04	-0.31	1.25	-0.14
	CO135	Main member	-19.28	-1.27	11.3	10.02	2.34
62	CO136	Connected member	-42.62	0.28	-2.69	-8.98	-2.78
	CO136	Connected member	-11.8	0.04	-0.32	1.19	-0.14
	CO136	Main member	-19.39	-1.25	11.27	10.17	2.35
62	CO137	Connected member	-42.14	0.29	-2.69	-8.99	-2.82
	CO137	Connected member	-10.88	0.05	-0.32	1.18	-0.16
	CO137	Main member	-19.47	-1.26	11.27	10.17	2.36
62	CO138	Connected member	-4.63	0.35	-2.86	-9.24	-2.86
	CO138	Connected member	6.29	0.04	-0.32	1.12	-0.13
	CO138	Main member	-18.5	-1.25	11.28	10.36	2.42
62	CO139	Connected member	-7.78	0.29	-3.89	-15.13	-2.33
	CO139	Connected member	9.39	0.03	0.06	2.96	-0.09
	CO139	Main member	-19.26	-1.02	20.28	18.09	1.99
62	CO140	Connected member	-108.41	0.05	-1.72	-4.29	-0.11
	CO140	Connected member	-21.67	0	-0.54	0.05	0.01
	CO140	Main member	-7.51	-0.01	4.94	4.34	0.1
62	CO141	Connected member	-103.03	0.05	-1.7	-4.19	-0.11
	CO141	Connected member	-6.36	0	-0.53	0.04	0.01
	CO141	Main member	0.69	0	4.9	4.22	0.1
62	CO142	Connected member	-115.18	0.05	-1.67	-4.15	-0.12
	CO142	Connected member	-16.28	0	-0.53	0.06	0.01
	CO142	Main member	-2.6	-0.01	4.9	4.21	0.1
62	CO143	Connected member	-83.62	0.05	-1.77	-4.32	-0.09
	CO143	Connected member	-0.48	-0.01	-0.54	0	0.01
	CO143	Main member	-0.44	0	4.9	4.32	0.09
62	CO144	Connected member	-76.71	0.24	-2.54	-8.76	-2.78
	CO144	Connected member	-2.31	0.04	-0.3	1.24	-0.14
	CO144	Main member	-17.41	-1.27	11.28	10	2.34
62	CO145	Connected member	-36.87	0.29	-2.7	-8.97	-2.79
	CO145	Connected member	-6.44	0.04	-0.32	1.18	-0.14
	CO145	Main member	-17.53	-1.25	11.25	10.15	2.35
62	CO146	Connected member	-36.39	0.3	-2.71	-8.99	-2.83



::LAVteam::

Page: 77/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO146	Connected member	-5.52	0.05	-0.32	1.18	-0.16
	CO146	Main member	-17.61	-1.26	11.26	10.16	2.36
	CO147	Connected member	1.12	0.35	-2.87	-9.23	-2.86
62	CO147	Connected member	11.65	0.04	-0.31	1.11	-0.13
	CO147	Main member	-16.63	-1.25	11.26	10.35	2.43
	CO148	Connected member	-2.03	0.3	-3.91	-15.12	-2.34
62	CO148	Connected member	14.75	0.03	0.07	2.96	-0.09
	CO148	Main member	-17.4	-1.02	20.27	18.08	2
	CO149	Connected member	-102.65	0.05	-1.73	-4.28	-0.11
62	CO149	Connected member	-16.31	0	-0.53	0.04	0.01
	CO149	Main member	-5.65	-0.01	4.92	4.32	0.1
	CO150	Connected member	-97.27	0.05	-1.7	-4.18	-0.1
62	CO150	Connected member	-1	0	-0.53	0.02	0.01
	CO150	Main member	2.55	0	4.89	4.21	0.09
	CO151	Connected member	-127.03	0.05	-1.64	-4.12	-0.12
62	CO151	Connected member	-24.53	0	-0.53	0.08	0.01
	CO151	Main member	-4.61	-0.01	4.92	4.2	0.11
	CO152	Connected member	-95.47	0.05	-1.74	-4.29	-0.1
62	CO152	Connected member	-8.73	-0.01	-0.54	0.02	0.02
	CO152	Main member	-2.44	0	4.92	4.31	0.09
	CO153	Connected member	-88.54	0.22	-2.5	-8.73	-2.76
62	CO153	Connected member	-10.56	0.04	-0.31	1.26	-0.14
	CO153	Main member	-19.43	-1.27	11.3	9.99	2.33
	CO154	Connected member	-48.7	0.27	-2.67	-8.94	-2.78
62	CO154	Connected member	-14.69	0.04	-0.32	1.2	-0.14
	CO154	Main member	-19.54	-1.25	11.27	10.14	2.34
	CO155	Connected member	-48.22	0.28	-2.67	-8.96	-2.81
62	CO155	Connected member	-13.77	0.05	-0.33	1.19	-0.16
	CO155	Main member	-19.63	-1.26	11.28	10.15	2.35
	CO156	Connected member	-10.71	0.34	-2.83	-9.21	-2.85
62	CO156	Connected member	3.4	0.04	-0.32	1.13	-0.13
	CO156	Main member	-18.65	-1.25	11.28	10.34	2.41
	CO157	Connected member	-13.86	0.29	-3.85	-15.09	-2.33
62	CO157	Connected member	6.5	0.03	0.05	2.97	-0.09
	CO157	Main member	-19.42	-1.02	20.29	18.06	1.99
	CO158	Connected member	-114.5	0.05	-1.7	-4.26	-0.11
62	CO158	Connected member	-24.56	0	-0.53	0.06	0.01
	CO158	Main member	-7.66	-0.01	4.94	4.32	0.1
	CO159	Connected member	-109.12	0.05	-1.68	-4.15	-0.11
62	CO159	Connected member	-9.25	0	-0.53	0.05	0.01
	CO159	Main member	0.55	0	4.91	4.2	0.1
	CO160	Connected member	-121.27	0.05	-1.65	-4.12	-0.12
62	CO160	Connected member	-19.17	0	-0.53	0.07	0.01
	CO160	Main member	-2.75	-0.01	4.91	4.19	0.1
	CO161	Connected member	-89.71	0.05	-1.75	-4.29	-0.1
62	CO161	Connected member	-3.37	-0.01	-0.54	0.01	0.02
	CO161	Main member	-0.58	0	4.9	4.3	0.09
	CO162	Connected member	-82.79	0.23	-2.52	-8.73	-2.77
62	CO162	Connected member	-5.2	0.04	-0.3	1.25	-0.14
	CO162	Main member	-17.56	-1.27	11.28	9.98	2.34
	CO163	Connected member	-42.95	0.28	-2.68	-8.94	-2.78
62	CO163	Connected member	-9.33	0.04	-0.32	1.19	-0.14
	CO163	Main member	-17.68	-1.25	11.26	10.13	2.35
	CO164	Connected member	-42.47	0.29	-2.68	-8.95	-2.82
62	CO164	Connected member	-8.41	0.05	-0.32	1.19	-0.16
	CO164	Main member	-17.76	-1.26	11.26	10.14	2.36
	CO165	Connected member	-4.96	0.35	-2.84	-9.2	-2.86
62	CO165	Connected member	8.76	0.04	-0.31	1.12	-0.13
	CO165	Main member	-16.79	-1.25	11.27	10.33	2.42
	CO166	Connected member	-8.11	0.29	-3.87	-15.08	-2.33
62	CO166	Connected member	11.86	0.03	0.06	2.97	-0.09
	CO166	Main member	-17.55	-1.02	20.27	18.05	1.99
	CO167	Connected member	-108.74	0.05	-1.71	-4.25	-0.11
62	CO167	Connected member	-19.2	0	-0.53	0.05	0.01
	CO167	Main member	-5.8	-0.01	4.93	4.3	0.1
	CO168	Connected member	-103.36	0.05	-1.68	-4.15	-0.11
62	CO168	Connected member	-3.89	0	-0.53	0.04	0.01
	CO168	Main member	2.41	0	4.89	4.19	0.1
	CO169	Connected member	-104.66	0.05	-1.71	-4.24	-0.11
62	CO169	Connected member	-13.88	0	-0.53	0.04	0.01
	CO169	Main member	-3.85	-0.01	4.91	4.28	0.1
	CO170	Connected member	-73.1	0.04	-1.81	-4.4	-0.09
62	CO170	Connected member	1.92	-0.01	-0.54	-0.02	0.02
	CO170	Main member	-1.68	0	4.91	4.39	0.09
	CO171	Connected member	-66.21	0.26	-2.6	-8.86	-2.79
62	CO171	Connected member	0.09	0.04	-0.3	1.22	-0.14
	CO171	Main member	-18.65	-1.27	11.29	10.08	2.36
	CO172	Connected member	-26.37	0.31	-2.76	-9.07	-2.81
62	CO172	Connected member	-4.04	0.04	-0.32	1.16	-0.14
	CO172	Main member	-18.76	-1.25	11.26	10.23	2.37
	CO173	Connected member	-25.89	0.31	-2.76	-9.08	-2.84
62	CO173	Connected member	-3.12	0.05	-0.32	1.16	-0.17
	CO173	Main member	-18.84	-1.26	11.27	10.24	2.38
	CO174	Connected member	11.61	0.37	-2.92	-9.33	-2.88
62	CO174	Connected member	14.05	0.04	-0.31	1.1	-0.14
	CO174	Main member	-17.87	-1.25	11.27	10.42	2.44
	CO175	Connected member	8.47	0.31	-3.98	-15.23	-2.35
62	CO175	Connected member	17.15	0.03	0.07	2.94	-0.09
	CO175	Main member	-18.63	-1.02	20.28	18.17	2.01
	CO176	Connected member	-92.13	0.05	-1.77	-4.37	-0.11
62	CO176	Connected member	-13.91	0	-0.54	0.02	0.01
	CO176	Main member	-6.9	-0.01	4.93	4.39	0.09
	CO177	Connected member	-86.75	0.05	-1.75	-4.27	-0.1
62	CO177	Connected member	1.41	0	-0.54	0	0.01



::LAVteam::

Page: 78/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO177	Main member	1.31	0	4.89	4.27	0.09
	CO178	Connected member	-98.9	0.05	-1.72	-4.23	-0.11
	CO178	Connected member	-8.52	0	-0.53	0.03	0.01
62	CO178	Main member	-1.99	-0.01	4.9	4.26	0.1
	CO179	Connected member	-67.34	0.04	-1.82	-4.4	-0.09
	CO179	Connected member	7.28	-0.01	-0.54	-0.03	0.01
62	CO179	Main member	0.18	0.01	4.89	4.37	0.08
	CO180	Connected member	-60.46	0.26	-2.61	-8.86	-2.8
	CO180	Connected member	5.45	0.04	-0.3	1.21	-0.14
62	CO180	Main member	-16.78	-1.27	11.27	10.07	2.36
	CO181	Connected member	-20.62	0.32	-2.77	-9.06	-2.82
	CO181	Connected member	1.32	0.04	-0.31	1.15	-0.15
62	CO181	Main member	-16.9	-1.25	11.24	10.22	2.37
	CO182	Connected member	-20.14	0.32	-2.78	-9.08	-2.85
	CO182	Connected member	2.24	0.05	-0.31	1.15	-0.17
62	CO182	Main member	-16.98	-1.26	11.25	10.23	2.38
	CO183	Connected member	17.36	0.38	-2.94	-9.32	-2.89
	CO183	Connected member	19.41	0.04	-0.31	1.09	-0.14
62	CO183	Main member	-16	-1.25	11.26	10.41	2.45
	CO184	Connected member	14.22	0.32	-4	-15.22	-2.36
	CO184	Connected member	22.5	0.03	0.08	2.94	-0.09
62	CO184	Main member	-16.77	-1.02	20.26	18.16	2.01
	CO185	Connected member	-86.38	0.05	-1.78	-4.37	-0.1
	CO185	Connected member	-8.55	0	-0.54	0.01	0.01
62	CO185	Main member	-5.04	-0.01	4.91	4.37	0.09
	CO186	Connected member	-80.99	0.05	-1.76	-4.27	-0.1
	CO186	Connected member	6.77	0	-0.54	-0.01	0.01
62	CO186	Main member	3.17	0	4.88	4.26	0.09
	CO187	Connected member	-98.57	0.05	-1.73	-4.27	-0.11
	CO187	Connected member	-10.99	0	-0.53	0.03	0.01
62	CO187	Main member	-3.7	-0.01	4.91	4.3	0.1
	CO188	Connected member	-67.01	0.04	-1.83	-4.44	-0.09
	CO188	Connected member	4.81	-0.01	-0.54	-0.03	0.01
62	CO188	Main member	-1.53	0	4.9	4.41	0.08
	CO189	Connected member	-60.13	0.26	-2.62	-8.89	-2.8
	CO189	Connected member	2.98	0.04	-0.3	1.21	-0.14
62	CO189	Main member	-18.5	-1.27	11.28	10.11	2.36
	CO190	Connected member	-20.29	0.32	-2.78	-9.1	-2.82
	CO190	Connected member	-1.15	0.04	-0.32	1.15	-0.14
62	CO190	Main member	-18.61	-1.25	11.26	10.25	2.37
	CO191	Connected member	-19.81	0.32	-2.79	-9.11	-2.85
	CO191	Connected member	-0.23	0.05	-0.32	1.15	-0.17
62	CO191	Main member	-18.69	-1.26	11.26	10.26	2.38
	CO192	Connected member	17.69	0.38	-2.95	-9.36	-2.88
	CO192	Connected member	16.94	0.04	-0.31	1.09	-0.14
62	CO192	Main member	-17.71	-1.25	11.27	10.45	2.45
	CO193	Connected member	14.54	0.32	-4.01	-15.27	-2.36
	CO193	Connected member	20.04	0.03	0.08	2.94	-0.09
62	CO193	Main member	-18.48	-1.02	20.27	18.2	2.01
	CO194	Connected member	-86.04	0.05	-1.79	-4.4	-0.1
	CO194	Connected member	-11.02	0	-0.54	0.01	0.01
62	CO194	Main member	-6.75	-0.01	4.92	4.41	0.09
	CO195	Connected member	-80.66	0.05	-1.77	-4.3	-0.1
	CO195	Connected member	4.3	0	-0.54	-0.01	0.01
62	CO195	Main member	1.45	0	4.89	4.29	0.09
	CO196	Connected member	-92.81	0.05	-1.74	-4.26	-0.11
	CO196	Connected member	-5.63	0	-0.53	0.02	0.01
62	CO196	Main member	-1.84	-0.01	4.89	4.28	0.09
	CO197	Connected member	-61.25	0.04	-1.84	-4.43	-0.09
	CO197	Connected member	10.17	-0.01	-0.54	-0.04	0.01
62	CO197	Main member	0.33	0.01	4.89	4.39	0.08
	CO198	Connected member	-54.38	0.27	-2.64	-8.89	-2.81
	CO198	Connected member	8.34	0.04	-0.3	1.2	-0.14
62	CO198	Main member	-16.63	-1.27	11.27	10.09	2.37
	CO199	Connected member	-14.54	0.33	-2.8	-9.1	-2.82
	CO199	Connected member	4.21	0.04	-0.31	1.14	-0.15
62	CO199	Main member	-16.74	-1.25	11.24	10.24	2.38
	CO200	Connected member	-14.06	0.33	-2.8	-9.11	-2.86
	CO200	Connected member	5.13	0.05	-0.31	1.14	-0.17
62	CO200	Main member	-16.83	-1.26	11.25	10.25	2.39
	CO201	Connected member	23.44	0.39	-2.96	-9.35	-2.89
	CO201	Connected member	22.3	0.04	-0.31	1.08	-0.14
62	CO201	Main member	-15.85	-1.25	11.25	10.43	2.45
	CO202	Connected member	20.3	0.33	-4.03	-15.26	-2.36
	CO202	Connected member	25.39	0.03	0.09	2.93	-0.09
62	CO202	Main member	-16.61	-1.02	20.26	18.2	2.02
	CO203	Connected member	-80.29	0.05	-1.8	-4.4	-0.1
	CO203	Connected member	-5.66	0	-0.54	0	0.01
62	CO203	Main member	-4.89	0	4.91	4.39	0.09
	CO204	Connected member	-74.9	0.05	-1.77	-4.3	-0.1
	CO204	Connected member	9.66	0	-0.54	-0.02	0.01
62	CO204	Main member	3.31	0	4.87	4.28	0.09
	CO205	Connected member	-102.01	0.08	-1.99	-6.13	-0.16
	CO205	Connected member	7.48	0	-0.39	0.69	0.01
62	CO205	Main member	6.55	0	8.07	6.82	0.14
	CO206	Connected member	-49.35	0.07	-2.17	-6.42	-0.12
	CO206	Connected member	33.81	-0.01	-0.39	0.6	0.02
62	CO206	Main member	10.14	0.02	8.07	7.03	0.12
	CO207	Connected member	-38.01	0.49	-3.55	-13.89	-4.7
	CO207	Connected member	30.77	0.07	0.05	2.71	-0.23
62	CO207	Main member	-18.05	-2.11	18.73	16.6	3.98
	CO208	Connected member	28.37	0.64	-3.89	-14.29	-4.77
	CO208	Connected member	23.88	0.07	0.02	2.6	-0.24
62	CO208	Main member	-18.23	-2.07	18.69	16.89	4.03



::LAV/team::

Page: 79/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO209	Connected member	29.16	0.65	-3.9	-14.31	-4.83
	CO209	Connected member	25.41	0.09	0.02	2.59	-0.27
	CO209	Main member	-18.37	-2.09	18.7	16.9	4.05
62	CO210	Connected member	91.65	0.8	-4.24	-14.75	-4.93
	CO210	Connected member	54.03	0.07	0.05	2.51	-0.23
	CO210	Main member	-16.72	-2.07	18.71	17.26	4.19
62	CO211	Connected member	86.41	0.66	-6.17	-24.69	-4
	CO211	Connected member	59.16	0.05	0.8	5.67	-0.15
	CO211	Main member	-17.94	-1.69	33.75	30.36	3.42
62	CO212	Connected member	-81.12	0.07	-2.1	-6.37	-0.15
	CO212	Connected member	7.43	-0.01	-0.4	0.65	0.01
	CO212	Main member	1.46	0	8.11	7.02	0.13
62	CO213	Connected member	-72.12	0.07	-2.06	-6.19	-0.14
	CO213	Connected member	32.95	-0.01	-0.39	0.64	0.02
	CO213	Main member	15.13	0.01	8.04	6.83	0.12
62	CO214	Connected member	-124.4	0.08	-1.9	-6	-0.17
	CO214	Connected member	-3.17	-0.01	-0.4	0.73	0.01
	CO214	Main member	5.79	0	8.09	6.73	0.15
62	CO215	Connected member	-71.74	0.07	-2.09	-6.3	-0.13
	CO215	Connected member	23.16	-0.01	-0.39	0.64	0.02
	CO215	Main member	9.38	0.02	8.08	6.95	0.13
62	CO216	Connected member	-60.34	0.44	-3.43	-13.75	-4.65
	CO216	Connected member	20.12	0.07	0.04	2.74	-0.23
	CO216	Main member	-18.83	-2.11	18.74	16.49	3.93
62	CO217	Connected member	6.04	0.59	-3.77	-14.15	-4.72
	CO217	Connected member	13.23	0.07	0	2.62	-0.24
	CO217	Main member	-19.02	-2.07	18.7	16.78	3.99
62	CO218	Connected member	6.84	0.6	-3.78	-14.18	-4.78
	CO218	Connected member	14.76	0.08	0	2.62	-0.27
	CO218	Main member	-19.16	-2.1	18.71	16.8	4.01
62	CO219	Connected member	69.33	0.75	-4.12	-14.62	-4.89
	CO219	Connected member	43.38	0.07	0.04	2.54	-0.23
	CO219	Main member	-17.51	-2.07	18.72	17.16	4.15
62	CO220	Connected member	64.09	0.62	-6	-24.53	-3.97
	CO220	Connected member	48.52	0.05	0.76	5.68	-0.15
	CO220	Main member	-18.73	-1.69	33.75	30.21	3.39
62	CO221	Connected member	-103.5	0.07	-2.01	-6.24	-0.16
	CO221	Connected member	-3.22	-0.01	-0.4	0.69	0.01
	CO221	Main member	0.7	0	8.12	6.94	0.14
62	CO222	Connected member	-94.51	0.07	-1.98	-6.07	-0.15
	CO222	Connected member	22.3	-0.01	-0.39	0.68	0.02
	CO222	Main member	14.37	0.01	8.05	6.75	0.14
62	CO223	Connected member	-130.49	0.08	-1.88	-5.97	-0.18
	CO223	Connected member	-6.06	-0.01	-0.4	0.74	0.01
	CO223	Main member	5.65	0	8.09	6.71	0.16
62	CO224	Connected member	-77.83	0.07	-2.07	-6.27	-0.13
	CO224	Connected member	20.27	-0.01	-0.39	0.65	0.02
	CO224	Main member	9.24	0.01	8.08	6.92	0.13
62	CO225	Connected member	-66.42	0.42	-3.39	-13.71	-4.63
	CO225	Connected member	17.24	0.07	0.03	2.75	-0.23
	CO225	Main member	-18.99	-2.11	18.74	16.46	3.91
62	CO226	Connected member	-0.04	0.57	-3.74	-14.12	-4.71
	CO226	Connected member	10.34	0.07	-0.01	2.63	-0.24
	CO226	Main member	-19.17	-2.07	18.7	16.75	3.98
62	CO227	Connected member	0.76	0.59	-3.75	-14.14	-4.76
	CO227	Connected member	11.87	0.08	-0.01	2.63	-0.27
	CO227	Main member	-19.31	-2.1	18.71	16.77	3.99
62	CO228	Connected member	63.26	0.73	-4.09	-14.59	-4.88
	CO228	Connected member	40.49	0.07	0.04	2.55	-0.23
	CO228	Main member	-17.67	-2.08	18.73	17.13	4.14
62	CO229	Connected member	58.02	0.61	-5.96	-24.49	-3.96
	CO229	Connected member	45.63	0.05	0.75	5.68	-0.15
	CO229	Main member	-18.89	-1.69	33.75	30.17	3.39
62	CO230	Connected member	-109.6	0.08	-1.99	-6.21	-0.16
	CO230	Connected member	-6.11	-0.01	-0.4	0.7	0.01
	CO230	Main member	0.56	0	8.12	6.91	0.15
62	CO231	Connected member	-100.61	0.07	-1.95	-6.03	-0.15
	CO231	Connected member	19.41	-0.01	-0.39	0.69	0.02
	CO231	Main member	14.23	0.01	8.06	6.72	0.14
62	CO232	Connected member	-108.1	0.08	-1.96	-6.1	-0.17
	CO232	Connected member	4.59	-0.01	-0.39	0.7	0.01
	CO232	Main member	6.4	0	8.08	6.8	0.15
62	CO233	Connected member	-55.45	0.07	-2.15	-6.39	-0.12
	CO233	Connected member	30.92	-0.01	-0.39	0.61	0.02
	CO233	Main member	9.99	0.02	8.07	7	0.12
62	CO234	Connected member	-44.09	0.48	-3.51	-13.85	-4.69
	CO234	Connected member	27.88	0.07	0.05	2.72	-0.23
	CO234	Main member	-18.21	-2.11	18.73	16.57	3.96
62	CO235	Connected member	22.29	0.63	-3.86	-14.25	-4.76
	CO235	Connected member	20.99	0.07	0.01	2.6	-0.24
	CO235	Main member	-18.38	-2.07	18.69	16.86	4.02
62	CO236	Connected member	23.08	0.64	-3.87	-14.27	-4.81
	CO236	Connected member	22.52	0.09	0.01	2.6	-0.27
	CO236	Main member	-18.52	-2.1	18.7	16.87	4.04
62	CO237	Connected member	85.57	0.78	-4.2	-14.72	-4.92
	CO237	Connected member	51.14	0.07	0.05	2.52	-0.23
	CO237	Main member	-16.88	-2.07	18.72	17.23	4.18
62	CO238	Connected member	80.34	0.65	-6.13	-24.65	-3.99
	CO238	Connected member	56.27	0.05	0.79	5.67	-0.15
	CO238	Main member	-18.09	-1.69	33.75	30.32	3.42
62	CO239	Connected member	-87.22	0.07	-2.07	-6.33	-0.15
	CO239	Connected member	4.54	-0.01	-0.4	0.67	0.01
	CO239	Main member	1.31	0	8.11	7	0.14
62	CO240	Connected member	-78.22	0.07	-2.04	-6.16	-0.14



::LAVteam::

Page: 80/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO240	Connected member	30.06	-0.01	-0.39	0.65	0.02
	CO240	Main member	14.98	0.01	8.05	6.81	0.13
	CO241	Connected member	-135.69	0.08	-1.86	-5.94	-0.18
62	CO241	Connected member	-8.52	-0.01	-0.4	0.75	0.01
	CO241	Main member	5.53	-0.01	8.09	6.69	0.16
	CO242	Connected member	-83.03	0.07	-2.05	-6.24	-0.14
62	CO242	Connected member	17.8	-0.01	-0.39	0.66	0.02
	CO242	Main member	9.11	0.01	8.09	6.9	0.13
	CO243	Connected member	-71.61	0.41	-3.36	-13.67	-4.62
62	CO243	Connected member	14.77	0.07	0.03	2.76	-0.22
	CO243	Main member	-19.12	-2.11	18.74	16.43	3.9
	CO244	Connected member	-5.21	0.56	-3.71	-14.09	-4.7
62	CO244	Connected member	7.88	0.07	-0.01	2.64	-0.24
	CO244	Main member	-19.3	-2.07	18.7	16.72	3.97
	CO245	Connected member	-4.42	0.57	-3.72	-14.11	-4.75
62	CO245	Connected member	9.41	0.08	-0.01	2.63	-0.27
	CO245	Main member	-19.44	-2.1	18.71	16.74	3.98
	CO246	Connected member	58.08	0.72	-4.06	-14.55	-4.86
62	CO246	Connected member	38.03	0.07	0.03	2.55	-0.23
	CO246	Main member	-17.8	-2.08	18.73	17.11	4.13
	CO247	Connected member	52.84	0.6	-5.92	-24.45	-3.95
62	CO247	Connected member	43.17	0.05	0.74	5.69	-0.15
	CO247	Main member	-19.02	-1.69	33.75	30.13	3.38
	CO248	Connected member	-114.79	0.08	-1.97	-6.18	-0.17
62	CO248	Connected member	-8.57	-0.01	-0.41	0.71	0.01
	CO248	Main member	0.43	0	8.12	6.89	0.15
	CO249	Connected member	-105.81	0.07	-1.93	-6	-0.15
62	CO249	Connected member	16.95	-0.01	-0.39	0.7	0.02
	CO249	Main member	14.11	0.01	8.06	6.7	0.14
	CO250	Connected member	-132.8	0.08	-1.87	-5.94	-0.18
62	CO250	Connected member	-5.84	-0.01	-0.4	0.75	0.01
	CO250	Main member	6.46	0	8.08	6.68	0.16
	CO251	Connected member	-80.14	0.07	-2.06	-6.24	-0.13
62	CO251	Connected member	20.48	-0.01	-0.39	0.66	0.02
	CO251	Main member	10.04	0.01	8.08	6.9	0.13
	CO252	Connected member	-68.73	0.42	-3.37	-13.67	-4.63
62	CO252	Connected member	17.45	0.07	0.03	2.75	-0.23
	CO252	Main member	-18.18	-2.11	18.73	16.43	3.91
	CO253	Connected member	-2.34	0.57	-3.72	-14.08	-4.7
62	CO253	Connected member	10.56	0.07	0	2.64	-0.24
	CO253	Main member	-18.37	-2.07	18.69	16.72	3.97
	CO254	Connected member	-1.54	0.58	-3.73	-14.1	-4.76
62	CO254	Connected member	12.09	0.08	0	2.63	-0.27
	CO254	Main member	-18.51	-2.09	18.7	16.74	3.99
	CO255	Connected member	60.96	0.73	-4.07	-14.55	-4.87
62	CO255	Connected member	40.71	0.07	0.04	2.55	-0.23
	CO255	Main member	-16.87	-2.07	18.72	17.1	4.14
	CO256	Connected member	55.72	0.6	-5.93	-24.45	-3.95
62	CO256	Connected member	45.85	0.05	0.75	5.69	-0.15
	CO256	Main member	-18.09	-1.69	33.74	30.13	3.38
	CO257	Connected member	-111.91	0.08	-1.98	-6.18	-0.16
62	CO257	Connected member	-5.89	-0.01	-0.4	0.71	0.01
	CO257	Main member	1.36	0	8.12	6.89	0.15
	CO258	Connected member	-102.92	0.07	-1.94	-6	-0.15
62	CO258	Connected member	19.63	-0.01	-0.39	0.7	0.02
	CO258	Main member	15.04	0.01	8.05	6.7	0.14
	CO259	Connected member	-141.78	0.08	-1.84	-5.91	-0.18
62	CO259	Connected member	-11.41	-0.01	-0.4	0.76	0.01
	CO259	Main member	5.38	-0.01	8.09	6.67	0.16
	CO260	Connected member	-89.12	0.07	-2.03	-6.21	-0.14
62	CO260	Connected member	14.91	-0.01	-0.39	0.67	0.03
	CO260	Main member	8.97	0.01	8.09	6.88	0.13
	CO261	Connected member	-77.69	0.39	-3.33	-13.63	-4.6
62	CO261	Connected member	11.89	0.07	0.02	2.76	-0.22
	CO261	Main member	-19.27	-2.11	18.74	16.4	3.89
	CO262	Connected member	-11.29	0.54	-3.68	-14.05	-4.68
62	CO262	Connected member	4.99	0.07	-0.02	2.65	-0.24
	CO262	Main member	-19.46	-2.07	18.7	16.69	3.95
	CO263	Connected member	-10.5	0.56	-3.69	-14.07	-4.74
62	CO263	Connected member	6.53	0.08	-0.01	2.64	-0.27
	CO263	Main member	-19.59	-2.1	18.71	16.71	3.97
	CO264	Connected member	52	0.71	-4.03	-14.52	-4.85
62	CO264	Connected member	35.14	0.07	0.03	2.56	-0.22
	CO264	Main member	-17.95	-2.08	18.73	17.08	4.12
	CO265	Connected member	46.76	0.59	-5.87	-24.4	-3.94
62	CO265	Connected member	40.29	0.05	0.73	5.69	-0.15
	CO265	Main member	-19.17	-1.69	33.75	30.09	3.37
	CO266	Connected member	-120.88	0.08	-1.95	-6.15	-0.17
62	CO266	Connected member	-11.46	-0.01	-0.41	0.72	0.01
	CO266	Main member	0.29	0	8.13	6.87	0.15
	CO267	Connected member	-111.9	0.08	-1.91	-5.97	-0.16
62	CO267	Connected member	14.06	-0.01	-0.39	0.71	0.02
	CO267	Main member	13.96	0.01	8.06	6.68	0.14
	CO268	Connected member	-138.9	0.08	-1.84	-5.9	-0.18
62	CO268	Connected member	-8.73	-0.01	-0.4	0.76	0.01
	CO268	Main member	6.31	-0.01	8.09	6.66	0.16
	CO269	Connected member	-86.24	0.07	-2.03	-6.21	-0.14
62	CO269	Connected member	17.59	-0.01	-0.39	0.67	0.02
	CO269	Main member	9.89	0.01	8.08	6.87	0.13
	CO270	Connected member	-74.81	0.4	-3.34	-13.63	-4.61
62	CO270	Connected member	14.56	0.07	0.03	2.76	-0.22
	CO270	Main member	-18.34	-2.11	18.73	16.39	3.9
	CO271	Connected member	-8.42	0.55	-3.69	-14.05	-4.69
	CO271	Connected member	7.67	0.07	-0.01	2.64	-0.24



::LAVteam::

Page: 81/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO271	Main member	-18.52	-2.07	18.7	16.69	3.96
	CO272	Connected member	-7.62	0.56	-3.7	-14.07	-4.74
	CO272	Connected member	9.2	0.08	-0.01	2.64	-0.27
62	CO272	Main member	-18.66	-2.1	18.71	16.71	3.98
	CO273	Connected member	54.88	0.71	-4.04	-14.52	-4.86
	CO273	Connected member	37.82	0.07	0.03	2.56	-0.23
62	CO273	Main member	-17.02	-2.07	18.72	17.07	4.13
	CO274	Connected member	49.64	0.59	-5.89	-24.4	-3.95
	CO274	Connected member	42.96	0.05	0.74	5.69	-0.15
62	CO274	Main member	-18.24	-1.69	33.74	30.09	3.38
	CO275	Connected member	-118	0.08	-1.95	-6.14	-0.17
	CO275	Connected member	-8.78	-0.01	-0.4	0.72	0.01
62	CO275	Main member	1.22	0	8.12	6.86	0.15
	CO276	Connected member	-109.02	0.08	-1.92	-5.97	-0.15
	CO276	Connected member	16.74	-0.01	-0.39	0.71	0.02
62	CO276	Main member	14.89	0.01	8.06	6.67	0.14
	CO277	Connected member	-119.39	0.08	-1.92	-6.03	-0.17
	CO277	Connected member	-0.76	-0.01	-0.4	0.72	0.01
62	CO277	Main member	6.13	0	8.08	6.75	0.15
	CO278	Connected member	-66.74	0.07	-2.11	-6.33	-0.13
	CO278	Connected member	25.57	-0.01	-0.39	0.63	0.02
62	CO278	Main member	9.72	0.02	8.08	6.96	0.12
	CO279	Connected member	-55.35	0.45	-3.45	-13.78	-4.66
	CO279	Connected member	22.53	0.07	0.04	2.74	-0.23
62	CO279	Main member	-18.49	-2.11	18.73	16.51	3.94
	CO280	Connected member	11.03	0.6	-3.8	-14.18	-4.74
	CO280	Connected member	15.64	0.07	0	2.62	-0.24
62	CO280	Main member	-18.67	-2.07	18.69	16.8	4
	CO281	Connected member	11.83	0.61	-3.81	-14.21	-4.79
	CO281	Connected member	17.17	0.08	0	2.61	-0.27
62	CO281	Main member	-18.81	-2.1	18.7	16.82	4.02
	CO282	Connected member	74.32	0.76	-4.15	-14.65	-4.9
	CO282	Connected member	45.79	0.07	0.04	2.53	-0.23
62	CO282	Main member	-17.16	-2.07	18.72	17.18	4.16
	CO283	Connected member	69.08	0.63	-6.04	-24.56	-3.98
	CO283	Connected member	50.93	0.05	0.77	5.68	-0.15
62	CO283	Main member	-18.38	-1.69	33.75	30.24	3.4
	CO284	Connected member	-98.5	0.07	-2.03	-6.27	-0.16
	CO284	Connected member	-0.81	-0.01	-0.4	0.69	0.01
62	CO284	Main member	1.04	0	8.12	6.96	0.14
	CO285	Connected member	-89.51	0.07	-2	-6.09	-0.15
	CO285	Connected member	24.71	-0.01	-0.39	0.67	0.02
62	CO285	Main member	14.71	0.01	8.05	6.76	0.13
	CO286	Connected member	-116.51	0.08	-1.93	-6.03	-0.17
	CO286	Connected member	1.92	-0.01	-0.39	0.72	0.01
62	CO286	Main member	7.06	0	8.08	6.75	0.15
	CO287	Connected member	-63.85	0.07	-2.12	-6.33	-0.13
	CO287	Connected member	28.24	-0.01	-0.39	0.63	0.02
62	CO287	Main member	10.65	0.02	8.07	6.96	0.12
	CO288	Connected member	-52.48	0.46	-3.46	-13.78	-4.67
	CO288	Connected member	25.21	0.07	0.05	2.73	-0.23
62	CO288	Main member	-17.56	-2.11	18.73	16.51	3.95
	CO289	Connected member	13.91	0.61	-3.81	-14.18	-4.74
	CO289	Connected member	18.32	0.07	0.01	2.62	-0.24
62	CO289	Main member	-17.74	-2.07	18.69	16.8	4.01
	CO290	Connected member	14.7	0.62	-3.82	-14.2	-4.8
	CO290	Connected member	19.85	0.08	0.01	2.61	-0.27
62	CO290	Main member	-17.88	-2.09	18.7	16.82	4.02
	CO291	Connected member	77.2	0.77	-4.16	-14.65	-4.91
	CO291	Connected member	48.47	0.07	0.05	2.53	-0.23
62	CO291	Main member	-16.23	-2.07	18.71	17.18	4.17
	CO292	Connected member	71.96	0.63	-6.06	-24.56	-3.98
	CO292	Connected member	53.6	0.05	0.78	5.68	-0.15
62	CO292	Main member	-17.45	-1.69	33.74	30.24	3.41
	CO293	Connected member	-95.62	0.07	-2.04	-6.27	-0.16
	CO293	Connected member	1.87	-0.01	-0.4	0.68	0.01
62	CO293	Main member	1.97	0	8.11	6.95	0.14
	CO294	Connected member	-86.63	0.07	-2	-6.09	-0.14
	CO294	Connected member	27.39	-0.01	-0.39	0.67	0.02
62	CO294	Main member	15.64	0.01	8.04	6.76	0.13
	CO295	Connected member	-113.3	0.08	-1.94	-6.07	-0.17
	CO295	Connected member	2.13	-0.01	-0.4	0.71	0.01
62	CO295	Main member	6.28	0	8.08	6.78	0.15
	CO296	Connected member	-60.64	0.07	-2.13	-6.36	-0.13
	CO296	Connected member	28.45	-0.01	-0.39	0.62	0.02
62	CO296	Main member	9.87	0.02	8.07	6.99	0.12
	CO297	Connected member	-49.27	0.47	-3.49	-13.82	-4.68
	CO297	Connected member	25.42	0.07	0.05	2.73	-0.23
62	CO297	Main member	-18.34	-2.11	18.73	16.54	3.95
	CO298	Connected member	17.11	0.61	-3.83	-14.22	-4.75
	CO298	Connected member	18.53	0.07	0.01	2.61	-0.24
62	CO298	Main member	-18.52	-2.07	18.69	16.83	4.01
	CO299	Connected member	17.9	0.63	-3.84	-14.24	-4.8
	CO299	Connected member	20.06	0.08	0.01	2.61	-0.27
62	CO299	Main member	-18.65	-2.1	18.7	16.85	4.03
	CO300	Connected member	80.4	0.77	-4.18	-14.69	-4.91
	CO300	Connected member	48.68	0.07	0.05	2.52	-0.23
62	CO300	Main member	-17.01	-2.07	18.72	17.21	4.17
	CO301	Connected member	75.16	0.64	-6.09	-24.61	-3.98
	CO301	Connected member	53.82	0.05	0.78	5.67	-0.15
62	CO301	Main member	-18.23	-1.69	33.75	30.28	3.41
	CO302	Connected member	-92.41	0.07	-2.05	-6.3	-0.16
	CO302	Connected member	2.08	-0.01	-0.4	0.67	0.01
62	CO302	Main member	1.19	0	8.11	6.98	0.14



::LAV/team::

Page: 82/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO303	Connected member	-83.41	0.07	-2.02	-6.13	-0.14
	CO303	Connected member	27.6	-0.01	-0.39	0.66	0.02
	CO303	Main member	14.86	0.01	8.05	6.79	0.13
62	CO304	Connected member	-110.42	0.08	-1.95	-6.06	-0.17
	CO304	Connected member	4.81	0	-0.39	0.71	0.01
	CO304	Main member	7.21	0	8.07	6.77	0.15
62	CO305	Connected member	-57.76	0.07	-2.14	-6.36	-0.12
	CO305	Connected member	31.13	-0.01	-0.39	0.62	0.02
	CO305	Main member	10.79	0.02	8.07	6.98	0.12
62	CO306	Connected member	-46.4	0.47	-3.5	-13.81	-4.68
	CO306	Connected member	28.1	0.07	0.05	2.73	-0.23
	CO306	Main member	-17.4	-2.11	18.72	16.54	3.96
62	CO307	Connected member	19.99	0.62	-3.84	-14.22	-4.76
	CO307	Connected member	21.21	0.07	0.01	2.61	-0.24
	CO307	Main member	-17.58	-2.07	18.68	16.83	4.02
62	CO308	Connected member	20.78	0.63	-3.85	-14.24	-4.81
	CO308	Connected member	22.74	0.09	0.01	2.61	-0.27
	CO308	Main member	-17.72	-2.09	18.69	16.84	4.04
62	CO309	Connected member	83.28	0.78	-4.19	-14.68	-4.92
	CO309	Connected member	51.36	0.07	0.05	2.52	-0.23
	CO309	Main member	-16.08	-2.07	18.71	17.2	4.18
62	CO310	Connected member	78.04	0.64	-6.1	-24.61	-3.99
	CO310	Connected member	56.49	0.05	0.79	5.68	-0.15
	CO310	Main member	-17.3	-1.69	33.74	30.28	3.41
62	CO311	Connected member	-89.53	0.07	-2.06	-6.3	-0.15
	CO311	Connected member	4.76	-0.01	-0.4	0.67	0.01
	CO311	Main member	2.12	0	8.1	6.97	0.14
62	CO312	Connected member	-80.53	0.07	-2.02	-6.13	-0.14
	CO312	Connected member	30.28	-0.01	-0.39	0.66	0.02
	CO312	Main member	15.79	0.01	8.04	6.78	0.13
62	CO313	Connected member	-27.4	0	-1.09	-1.26	-0.01
	CO313	Connected member	-8.85	0	-0.55	-0.78	0
	CO313	Main member	-13.12	-0.01	0.07	0.47	0.01
62	CO314	Connected member	-49.74	0	-1.04	-1.15	-0.01
	CO314	Connected member	-19.5	0	-0.53	-0.73	0
	CO314	Main member	-13.9	-0.01	0.09	0.42	0.01
62	CO315	Connected member	-55.82	0	-1.02	-1.13	-0.01
	CO315	Connected member	-22.39	0	-0.53	-0.72	0
	CO315	Main member	-14.05	-0.01	0.09	0.4	0.01
62	CO316	Connected member	-33.48	0	-1.07	-1.23	-0.01
	CO316	Connected member	-11.74	0	-0.54	-0.77	0
	CO316	Main member	-13.27	-0.01	0.08	0.46	0.01
62	CO317	Connected member	-72.45	0	-0.98	-1.05	-0.02
	CO317	Connected member	-30.26	0	-0.52	-0.68	0
	CO317	Main member	-14.24	-0.01	0.1	0.36	0.01
62	CO318	Connected member	-94.79	0	-0.93	-0.94	-0.02
	CO318	Connected member	-40.92	0	-0.51	-0.63	0
	CO318	Main member	-15.02	-0.01	0.12	0.31	0.02
62	CO319	Connected member	-100.87	0.01	-0.91	-0.91	-0.02
	CO319	Connected member	-43.81	0	-0.51	-0.62	0
	CO319	Main member	-15.17	-0.01	0.12	0.29	0.02
62	CO320	Connected member	-78.53	0	-0.97	-1.02	-0.02
	CO320	Connected member	-33.15	0	-0.52	-0.67	0
	CO320	Main member	-14.4	-0.01	0.11	0.35	0.02
62	CO321	Connected member	-106.05	0.01	-0.9	-0.89	-0.02
	CO321	Connected member	-46.27	0	-0.5	-0.61	0
	CO321	Main member	-15.3	-0.01	0.13	0.28	0.02
62	CO322	Connected member	-103.18	0.01	-0.9	-0.89	-0.02
	CO322	Connected member	-43.59	0	-0.51	-0.62	0
	CO322	Main member	-14.37	-0.01	0.12	0.27	0.02
62	CO323	Connected member	-112.14	0.01	-0.88	-0.86	-0.03
	CO323	Connected member	-49.16	0	-0.5	-0.6	0
	CO323	Main member	-15.45	-0.01	0.13	0.26	0.02
62	CO324	Connected member	-109.26	0.01	-0.89	-0.86	-0.02
	CO324	Connected member	-46.48	0	-0.5	-0.6	0
	CO324	Main member	-14.52	-0.01	0.12	0.25	0.02
62	CO325	Connected member	-89.8	0	-0.94	-0.96	-0.02
	CO325	Connected member	-38.51	0	-0.51	-0.64	0
	CO325	Main member	-14.68	-0.01	0.11	0.32	0.02
62	CO326	Connected member	-86.92	0	-0.94	-0.96	-0.02
	CO326	Connected member	-35.82	0	-0.51	-0.65	0
	CO326	Main member	-13.74	-0.01	0.11	0.31	0.02
62	CO327	Connected member	-145.17	0.05	-1.17	-3.52	-0.13
	CO327	Connected member	-34.61	0	-0.33	0.42	0.01
	CO327	Main member	-0.7	-0.01	4.91	3.94	0.11
62	CO328	Connected member	-113.61	0.05	-1.27	-3.7	-0.11
	CO328	Connected member	-18.81	-0.01	-0.34	0.36	0.02
	CO328	Main member	1.47	0	4.91	4.06	0.1
62	CO329	Connected member	-106.66	0.19	-2.02	-8.13	-2.73
	CO329	Connected member	-20.63	0.04	-0.12	1.58	-0.14
	CO329	Main member	-15.53	-1.26	11.28	9.71	2.3
62	CO330	Connected member	-66.81	0.24	-2.18	-8.35	-2.74
	CO330	Connected member	-24.76	0.04	-0.14	1.52	-0.14
	CO330	Main member	-15.64	-1.25	11.25	9.87	2.31
62	CO331	Connected member	-66.33	0.25	-2.19	-8.36	-2.78
	CO331	Connected member	-23.84	0.05	-0.14	1.52	-0.16
	CO331	Main member	-15.73	-1.26	11.26	9.88	2.32
62	CO332	Connected member	-28.82	0.31	-2.35	-8.62	-2.82
	CO332	Connected member	-6.67	0.04	-0.13	1.45	-0.13
	CO332	Main member	-14.76	-1.25	11.27	10.07	2.39
62	CO333	Connected member	-31.97	0.26	-3.34	-14.48	-2.31
	CO333	Connected member	-3.57	0.03	0.22	3.28	-0.09
	CO333	Main member	-15.52	-1.02	20.26	17.76	1.97
62	CO334	Connected member	-132.64	0.05	-1.23	-3.66	-0.12



::LAV/team::

Page: 83/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO334	Connected member	-34.64	0	-0.34	0.39	0.01
	CO334	Main member	-3.75	-0.01	4.93	4.06	0.11
	CO335	Connected member	-127.27	0.05	-1.21	-3.56	-0.12
62	CO335	Connected member	-19.32	-0.01	-0.33	0.38	0.01
	CO335	Main member	4.46	0	4.89	3.94	0.11
	CO336	Connected member	-142.29	0.05	-1.18	-3.52	-0.13
62	CO336	Connected member	-31.92	0	-0.33	0.41	0.01
	CO336	Main member	0.23	-0.01	4.9	3.93	0.11
	CO337	Connected member	-110.73	0.05	-1.28	-3.7	-0.1
62	CO337	Connected member	-16.12	-0.01	-0.34	0.35	0.02
	CO337	Main member	2.4	0	4.9	4.05	0.1
	CO338	Connected member	-103.78	0.2	-2.03	-8.13	-2.73
62	CO338	Connected member	-17.95	0.04	-0.12	1.58	-0.14
	CO338	Main member	-14.59	-1.26	11.27	9.71	2.3
	CO339	Connected member	-63.94	0.25	-2.19	-8.35	-2.75
62	CO339	Connected member	-22.08	0.04	-0.13	1.52	-0.14
	CO339	Main member	-14.71	-1.24	11.25	9.86	2.32
	CO340	Connected member	-63.46	0.26	-2.19	-8.36	-2.78
62	CO340	Connected member	-21.16	0.05	-0.14	1.51	-0.16
	CO340	Main member	-14.8	-1.26	11.25	9.87	2.32
	CO341	Connected member	-25.94	0.31	-2.36	-8.62	-2.82
62	CO341	Connected member	-3.99	0.04	-0.13	1.45	-0.13
	CO341	Main member	-13.83	-1.25	11.26	10.07	2.39
	CO342	Connected member	-29.09	0.27	-3.36	-14.48	-2.31
62	CO342	Connected member	-0.89	0.03	0.23	3.28	-0.09
	CO342	Main member	-14.59	-1.02	20.25	17.75	1.97
	CO343	Connected member	-129.76	0.05	-1.24	-3.66	-0.12
62	CO343	Connected member	-31.96	0	-0.34	0.39	0.01
	CO343	Main member	-2.82	-0.01	4.92	4.05	0.11
	CO344	Connected member	-124.39	0.05	-1.21	-3.56	-0.11
62	CO344	Connected member	-16.64	-0.01	-0.33	0.37	0.01
	CO344	Main member	5.39	0	4.88	3.93	0.1
	CO345	Connected member	-151.26	0.05	-1.15	-3.49	-0.13
62	CO345	Connected member	-37.5	0	-0.33	0.43	0.01
	CO345	Main member	-0.84	-0.01	4.91	3.92	0.12
	CO346	Connected member	-119.7	0.05	-1.25	-3.67	-0.11
62	CO346	Connected member	-21.7	-0.01	-0.34	0.37	0.02
	CO346	Main member	1.32	0	4.91	4.03	0.1
	CO347	Connected member	-112.74	0.18	-1.99	-8.09	-2.72
62	CO347	Connected member	-23.52	0.04	-0.12	1.59	-0.14
	CO347	Main member	-15.68	-1.26	11.28	9.68	2.29
	CO348	Connected member	-72.89	0.24	-2.16	-8.31	-2.74
62	CO348	Connected member	-27.65	0.04	-0.14	1.53	-0.14
	CO348	Main member	-15.8	-1.25	11.26	9.84	2.3
	CO349	Connected member	-72.41	0.24	-2.16	-8.33	-2.77
62	CO349	Connected member	-26.73	0.05	-0.14	1.53	-0.16
	CO349	Main member	-15.88	-1.26	11.26	9.85	2.31
	CO350	Connected member	-34.9	0.3	-2.33	-8.58	-2.81
62	CO350	Connected member	-9.56	0.04	-0.13	1.46	-0.13
	CO350	Main member	-14.91	-1.25	11.27	10.05	2.38
	CO351	Connected member	-38.05	0.26	-3.31	-14.44	-2.3
62	CO351	Connected member	-6.46	0.03	0.22	3.29	-0.09
	CO351	Main member	-15.68	-1.02	20.26	17.72	1.97
	CO352	Connected member	-138.73	0.05	-1.21	-3.63	-0.12
62	CO352	Connected member	-37.53	0	-0.34	0.41	0.01
	CO352	Main member	-3.9	-0.01	4.93	4.03	0.11
	CO353	Connected member	-133.36	0.05	-1.19	-3.53	-0.12
62	CO353	Connected member	-22.21	-0.01	-0.33	0.39	0.01
	CO353	Main member	4.31	0	4.89	3.92	0.11
	CO354	Connected member	-148.38	0.05	-1.16	-3.49	-0.13
62	CO354	Connected member	-34.82	0	-0.33	0.42	0.01
	CO354	Main member	0.09	-0.01	4.9	3.91	0.11
	CO355	Connected member	-116.82	0.05	-1.26	-3.66	-0.11
62	CO355	Connected member	-19.02	-0.01	-0.34	0.36	0.02
	CO355	Main member	2.25	0	4.9	4.03	0.1
	CO356	Connected member	-109.87	0.19	-2	-8.09	-2.72
62	CO356	Connected member	-20.84	0.04	-0.12	1.59	-0.14
	CO356	Main member	-14.74	-1.26	11.28	9.68	2.29
	CO357	Connected member	-70.02	0.24	-2.16	-8.31	-2.74
62	CO357	Connected member	-24.97	0.04	-0.14	1.53	-0.14
	CO357	Main member	-14.86	-1.24	11.25	9.84	2.31
	CO358	Connected member	-69.54	0.25	-2.17	-8.32	-2.77
62	CO358	Connected member	-24.05	0.05	-0.14	1.52	-0.16
	CO358	Main member	-14.95	-1.26	11.26	9.85	2.32
	CO359	Connected member	-32.02	0.3	-2.33	-8.58	-2.81
62	CO359	Connected member	-6.88	0.04	-0.13	1.46	-0.13
	CO359	Main member	-13.98	-1.25	11.26	10.04	2.38
	CO360	Connected member	-35.17	0.26	-3.32	-14.44	-2.3
62	CO360	Connected member	-3.78	0.03	0.22	3.28	-0.09
	CO360	Main member	-14.74	-1.02	20.25	17.72	1.97
	CO361	Connected member	-135.85	0.05	-1.22	-3.63	-0.12
62	CO361	Connected member	-34.85	0	-0.34	0.4	0.01
	CO361	Main member	-2.96	-0.01	4.92	4.03	0.11
	CO362	Connected member	-130.48	0.05	-1.19	-3.53	-0.12
62	CO362	Connected member	-19.53	-0.01	-0.33	0.38	0.01
	CO362	Main member	5.24	0	4.89	3.91	0.11
	CO363	Connected member	-128.89	0.05	-1.23	-3.61	-0.12
62	CO363	Connected member	-26.84	0	-0.34	0.38	0.01
	CO363	Main member	-0.08	-0.01	4.9	4	0.11
	CO364	Connected member	-97.33	0.05	-1.33	-3.79	-0.1
62	CO364	Connected member	-11.04	-0.01	-0.34	0.32	0.02
	CO364	Main member	2.08	0	4.9	4.11	0.1
	CO365	Connected member	-90.4	0.22	-2.09	-8.23	-2.75
	CO365	Connected member	-12.87	0.04	-0.12	1.55	-0.14



::LAVteam::

Page: 84/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO365	Main member	-14.9	-1.26	11.27	9.78	2.32
	CO366	Connected member	-50.56	0.27	-2.25	-8.44	-2.77
	CO366	Connected member	-17	0.04	-0.13	1.49	-0.14
62	CO366	Main member	-15.02	-1.25	11.25	9.94	2.33
	CO367	Connected member	-50.08	0.28	-2.26	-8.45	-2.8
	CO367	Connected member	-16.08	0.05	-0.13	1.49	-0.16
62	CO367	Main member	-15.1	-1.26	11.25	9.94	2.34
	CO368	Connected member	-12.57	0.33	-2.42	-8.71	-2.84
	CO368	Connected member	1.09	0.04	-0.12	1.43	-0.13
62	CO368	Main member	-14.13	-1.25	11.26	10.14	2.41
	CO369	Connected member	-15.72	0.28	-3.44	-14.58	-2.32
	CO369	Connected member	4.19	0.03	0.24	3.26	-0.09
62	CO369	Main member	-14.89	-1.02	20.25	17.84	1.98
	CO370	Connected member	-116.36	0.05	-1.29	-3.75	-0.12
	CO370	Connected member	-26.87	0	-0.34	0.36	0.01
62	CO370	Main member	-3.13	-0.01	4.92	4.11	0.1
	CO371	Connected member	-110.98	0.05	-1.26	-3.65	-0.11
	CO371	Connected member	-11.56	0	-0.34	0.35	0.01
62	CO371	Main member	5.07	0	4.88	4	0.1
	CO372	Connected member	-126.01	0.05	-1.23	-3.61	-0.12
	CO372	Connected member	-24.16	0	-0.33	0.38	0.01
62	CO372	Main member	0.85	-0.01	4.89	3.99	0.11
	CO373	Connected member	-94.45	0.05	-1.33	-3.78	-0.1
	CO373	Connected member	-8.36	-0.01	-0.34	0.32	0.02
62	CO373	Main member	3.01	0	4.89	4.1	0.09
	CO374	Connected member	-87.53	0.22	-2.1	-8.22	-2.76
	CO374	Connected member	-10.19	0.04	-0.11	1.55	-0.14
62	CO374	Main member	-13.97	-1.26	11.26	9.77	2.33
	CO375	Connected member	-47.68	0.27	-2.26	-8.44	-2.77
	CO375	Connected member	-14.32	0.04	-0.13	1.49	-0.14
62	CO375	Main member	-14.09	-1.24	11.24	9.93	2.34
	CO376	Connected member	-47.21	0.28	-2.26	-8.45	-2.81
	CO376	Connected member	-13.4	0.05	-0.13	1.49	-0.16
62	CO376	Main member	-14.17	-1.26	11.24	9.94	2.35
	CO377	Connected member	-9.69	0.34	-2.43	-8.71	-2.85
	CO377	Connected member	3.77	0.04	-0.12	1.42	-0.13
62	CO377	Main member	-13.2	-1.25	11.25	10.13	2.41
	CO378	Connected member	-12.84	0.29	-3.45	-14.58	-2.33
	CO378	Connected member	6.87	0.03	0.25	3.26	-0.09
62	CO378	Main member	-13.96	-1.02	20.25	17.84	1.99
	CO379	Connected member	-113.48	0.05	-1.29	-3.75	-0.11
	CO379	Connected member	-24.19	0	-0.34	0.36	0.01
62	CO379	Main member	-2.2	-0.01	4.91	4.1	0.1
	CO380	Connected member	-108.11	0.05	-1.27	-3.65	-0.11
	CO380	Connected member	-8.87	0	-0.34	0.34	0.01
62	CO380	Main member	6	0	4.88	3.99	0.1
	CO381	Connected member	-133.89	0.05	-1.21	-3.58	-0.12
	CO381	Connected member	-29.25	0	-0.33	0.39	0.01
62	CO381	Main member	-0.43	-0.01	4.9	3.98	0.11
	CO382	Connected member	-102.33	0.05	-1.31	-3.76	-0.1
	CO382	Connected member	-13.45	-0.01	-0.34	0.33	0.02
62	CO382	Main member	1.74	0	4.9	4.09	0.1
	CO383	Connected member	-95.39	0.21	-2.07	-8.2	-2.74
	CO383	Connected member	-15.28	0.04	-0.12	1.56	-0.14
62	CO383	Main member	-15.25	-1.26	11.28	9.76	2.31
	CO384	Connected member	-55.55	0.26	-2.23	-8.41	-2.76
	CO384	Connected member	-19.41	0.04	-0.13	1.5	-0.14
62	CO384	Main member	-15.36	-1.25	11.25	9.92	2.33
	CO385	Connected member	-55.07	0.27	-2.23	-8.43	-2.79
	CO385	Connected member	-18.49	0.05	-0.13	1.5	-0.16
62	CO385	Main member	-15.45	-1.26	11.25	9.92	2.34
	CO386	Connected member	-17.56	0.32	-2.4	-8.68	-2.83
	CO386	Connected member	-1.32	0.04	-0.13	1.44	-0.13
62	CO386	Main member	-14.47	-1.25	11.26	10.12	2.4
	CO387	Connected member	-20.71	0.28	-3.41	-14.55	-2.32
	CO387	Connected member	1.78	0.03	0.23	3.27	-0.09
62	CO387	Main member	-15.24	-1.02	20.26	17.82	1.98
	CO388	Connected member	-121.36	0.05	-1.27	-3.72	-0.12
	CO388	Connected member	-29.28	0	-0.34	0.37	0.01
62	CO388	Main member	-3.48	-0.01	4.92	4.09	0.1
	CO389	Connected member	-115.98	0.05	-1.25	-3.62	-0.11
	CO389	Connected member	-13.97	-0.01	-0.34	0.36	0.01
62	CO389	Main member	4.73	0	4.89	3.98	0.1
	CO390	Connected member	-139.98	0.05	-1.19	-3.55	-0.13
	CO390	Connected member	-32.14	0	-0.33	0.41	0.01
62	CO390	Main member	-0.57	-0.01	4.91	3.96	0.11
	CO391	Connected member	-108.42	0.05	-1.29	-3.73	-0.1
	CO391	Connected member	-16.34	-0.01	-0.34	0.35	0.02
62	CO391	Main member	1.59	0	4.9	4.07	0.1
	CO392	Connected member	-101.47	0.2	-2.04	-8.16	-2.73
	CO392	Connected member	-18.16	0.04	-0.12	1.57	-0.14
62	CO392	Main member	-15.4	-1.26	11.28	9.73	2.31
	CO393	Connected member	-61.63	0.25	-2.21	-8.38	-2.75
	CO393	Connected member	-22.3	0.04	-0.14	1.51	-0.14
62	CO393	Main member	-15.52	-1.25	11.25	9.89	2.32
	CO394	Connected member	-61.15	0.26	-2.21	-8.39	-2.78
	CO394	Connected member	-21.38	0.05	-0.14	1.51	-0.16
62	CO394	Main member	-15.6	-1.26	11.26	9.9	2.33
	CO395	Connected member	-23.64	0.32	-2.37	-8.65	-2.83
	CO395	Connected member	-4.21	0.04	-0.13	1.45	-0.13
62	CO395	Main member	-14.63	-1.25	11.27	10.09	2.39
	CO396	Connected member	-26.79	0.27	-3.37	-14.51	-2.31
	CO396	Connected member	-1.11	0.03	0.23	3.27	-0.09
62	CO396	Main member	-15.39	-1.02	20.26	17.79	1.97



::LAV/team::

Page: 85/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO397	Connected member	-127.45	0.05	-1.25	-3.69	-0.12
	CO397	Connected member	-32.17	0	-0.34	0.38	0.01
	CO397	Main member	-3.62	-0.01	4.92	4.07	0.11
62	CO398	Connected member	-122.08	0.05	-1.23	-3.59	-0.11
	CO398	Connected member	-16.86	-0.01	-0.33	0.37	0.01
	CO398	Main member	4.59	0	4.89	3.96	0.1
62	CO399	Connected member	-117.61	0.05	-1.26	-3.67	-0.12
	CO399	Connected member	-21.49	0	-0.34	0.36	0.01
	CO399	Main member	0.19	-0.01	4.89	4.03	0.1
62	CO400	Connected member	-86.05	0.05	-1.36	-3.85	-0.1
	CO400	Connected member	-5.69	-0.01	-0.34	0.3	0.02
	CO400	Main member	2.35	0.01	4.89	4.15	0.09
62	CO401	Connected member	-79.14	0.23	-2.14	-8.29	-2.77
	CO401	Connected member	-7.51	0.04	-0.11	1.54	-0.14
	CO401	Main member	-14.62	-1.26	11.27	9.83	2.34
62	CO402	Connected member	-39.3	0.29	-2.3	-8.51	-2.78
	CO402	Connected member	-11.65	0.04	-0.13	1.48	-0.14
	CO402	Main member	-14.74	-1.25	11.24	9.98	2.35
62	CO403	Connected member	-38.82	0.29	-2.3	-8.52	-2.82
	CO403	Connected member	-10.73	0.05	-0.13	1.47	-0.16
	CO403	Main member	-14.82	-1.26	11.25	9.99	2.36
62	CO404	Connected member	-1.31	0.35	-2.47	-8.77	-2.86
	CO404	Connected member	6.44	0.04	-0.12	1.41	-0.13
	CO404	Main member	-13.84	-1.25	11.25	10.18	2.42
62	CO405	Connected member	-4.46	0.3	-3.5	-14.66	-2.33
	CO405	Connected member	9.54	0.03	0.25	3.25	-0.09
	CO405	Main member	-14.61	-1.02	20.25	17.9	1.99
62	CO406	Connected member	-105.08	0.05	-1.32	-3.81	-0.11
	CO406	Connected member	-21.52	0	-0.34	0.34	0.01
	CO406	Main member	-2.86	-0.01	4.91	4.15	0.1
62	CO407	Connected member	-99.7	0.05	-1.3	-3.71	-0.11
	CO407	Connected member	-6.2	0	-0.34	0.32	0.01
	CO407	Main member	5.34	0	4.88	4.03	0.1
62	CO408	Connected member	-83.71	0	-0.95	-0.99	-0.02
	CO408	Connected member	-35.61	0	-0.51	-0.66	0
	CO408	Main member	-14.52	-0.01	0.11	0.34	0.02
62	CO409	Connected member	-80.84	0	-0.96	-0.99	-0.02
	CO409	Connected member	-32.93	0	-0.52	-0.67	0
	CO409	Main member	-13.59	-0.01	0.1	0.33	0.02
62	CO410	Connected member	-122.8	0.05	-1.25	-3.64	-0.12
	CO410	Connected member	-23.95	0	-0.34	0.37	0.01
	CO410	Main member	0.06	-0.01	4.9	4.02	0.11
62	CO411	Connected member	-91.24	0.05	-1.34	-3.82	-0.1
	CO411	Connected member	-8.15	-0.01	-0.34	0.31	0.02
	CO411	Main member	2.23	0	4.89	4.13	0.09
62	CO412	Connected member	-84.32	0.23	-2.12	-8.26	-2.76
	CO412	Connected member	-9.98	0.04	-0.11	1.54	-0.14
	CO412	Main member	-14.75	-1.26	11.27	9.81	2.33
62	CO413	Connected member	-44.48	0.28	-2.28	-8.48	-2.78
	CO413	Connected member	-14.11	0.04	-0.13	1.48	-0.14
	CO413	Main member	-14.87	-1.25	11.24	9.96	2.34
62	CO414	Connected member	-44	0.29	-2.28	-8.49	-2.81
	CO414	Connected member	-13.19	0.05	-0.13	1.48	-0.16
	CO414	Main member	-14.95	-1.26	11.25	9.97	2.35
62	CO415	Connected member	-6.49	0.34	-2.44	-8.74	-2.85
	CO415	Connected member	3.98	0.04	-0.12	1.42	-0.13
	CO415	Main member	-13.97	-1.25	11.26	10.16	2.41
62	CO416	Connected member	-9.64	0.29	-3.47	-14.62	-2.33
	CO416	Connected member	7.08	0.03	0.25	3.25	-0.09
	CO416	Main member	-14.74	-1.02	20.25	17.88	1.99
62	CO417	Connected member	-110.27	0.05	-1.31	-3.78	-0.11
	CO417	Connected member	-23.98	0	-0.34	0.35	0.01
	CO417	Main member	-2.99	-0.01	4.91	4.13	0.1
62	CO418	Connected member	-104.89	0.05	-1.28	-3.68	-0.11
	CO418	Connected member	-8.66	0	-0.34	0.33	0.01
	CO418	Main member	5.22	0	4.88	4.02	0.1
62	CO419	Connected member	-119.92	0.05	-1.25	-3.64	-0.12
	CO419	Connected member	-21.27	0	-0.34	0.37	0.01
	CO419	Main member	0.99	-0.01	4.89	4.01	0.1
62	CO420	Connected member	-88.36	0.05	-1.35	-3.82	-0.1
	CO420	Connected member	-5.47	-0.01	-0.34	0.31	0.02
	CO420	Main member	3.16	0.01	4.89	4.12	0.09
62	CO421	Connected member	-81.44	0.23	-2.12	-8.26	-2.77
	CO421	Connected member	-7.3	0.04	-0.11	1.54	-0.14
	CO421	Main member	-13.82	-1.26	11.26	9.8	2.33
62	CO422	Connected member	-41.6	0.28	-2.28	-8.47	-2.78
	CO422	Connected member	-11.43	0.04	-0.13	1.48	-0.14
	CO422	Main member	-13.93	-1.24	11.24	9.95	2.34
62	CO423	Connected member	-41.12	0.29	-2.29	-8.49	-2.81
	CO423	Connected member	-10.51	0.05	-0.13	1.48	-0.16
	CO423	Main member	-14.02	-1.26	11.24	9.96	2.35
62	CO424	Connected member	-3.61	0.35	-2.45	-8.74	-2.85
	CO424	Connected member	6.66	0.04	-0.12	1.41	-0.13
	CO424	Main member	-13.04	-1.25	11.25	10.15	2.42
62	CO425	Connected member	-6.76	0.29	-3.48	-14.62	-2.33
	CO425	Connected member	9.76	0.03	0.25	3.25	-0.09
	CO425	Main member	-13.81	-1.02	20.24	17.87	1.99
62	CO426	Connected member	-107.39	0.05	-1.31	-3.78	-0.11
	CO426	Connected member	-21.3	0	-0.34	0.34	0.01
	CO426	Main member	-2.06	-0.01	4.91	4.12	0.1
62	CO427	Connected member	-102.01	0.05	-1.29	-3.68	-0.11
	CO427	Connected member	-5.98	0	-0.34	0.33	0.01
	CO427	Main member	6.15	0	4.87	4.01	0.1
62	CO428	Connected member	-111.52	0.05	-1.28	-3.7	-0.12



::LAVteam::

Page: 86/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO428	Connected member	-18.6	0	-0.34	0.35	0.01
	CO428	Main member	0.34	-0.01	4.89	4.05	0.1
	CO429	Connected member	-79.96	0.05	-1.38	-3.88	-0.09
62	CO429	Connected member	-2.8	-0.01	-0.34	0.29	0.02
	CO429	Main member	2.5	0.01	4.89	4.17	0.09
	CO430	Connected member	-73.06	0.24	-2.16	-8.33	-2.78
62	CO430	Connected member	-4.62	0.04	-0.11	1.53	-0.14
	CO430	Main member	-14.47	-1.26	11.26	9.85	2.34
	CO431	Connected member	-33.22	0.3	-2.32	-8.54	-2.79
62	CO431	Connected member	-8.76	0.04	-0.13	1.47	-0.14
	CO431	Main member	-14.58	-1.25	11.24	10.01	2.35
	CO432	Connected member	-32.74	0.3	-2.33	-8.55	-2.83
62	CO432	Connected member	-7.84	0.05	-0.13	1.46	-0.17
	CO432	Main member	-14.67	-1.26	11.24	10.02	2.36
	CO433	Connected member	4.77	0.36	-2.49	-8.8	-2.86
62	CO433	Connected member	9.33	0.04	-0.12	1.4	-0.13
	CO433	Main member	-13.69	-1.25	11.25	10.2	2.43
	CO434	Connected member	1.62	0.3	-3.53	-14.7	-2.34
62	CO434	Connected member	12.43	0.03	0.26	3.24	-0.09
	CO434	Main member	-14.46	-1.02	20.25	17.94	2
	CO435	Connected member	-98.99	0.05	-1.34	-3.84	-0.11
62	CO435	Connected member	-18.63	0	-0.34	0.33	0.01
	CO435	Main member	-2.71	-0.01	4.91	4.17	0.1
	CO436	Connected member	-93.61	0.05	-1.32	-3.74	-0.1
62	CO436	Connected member	-3.31	0	-0.34	0.31	0.01
	CO436	Main member	5.49	0	4.87	4.05	0.09
	CO437	Connected member	-49.92	0	-1.04	-1.15	-0.01
62	CO437	Connected member	-19.55	0	-0.53	-0.73	0
	CO437	Main member	-13.68	-0.01	0.09	0.42	0.01
	CO438	Connected member	-44.18	0	-1.04	-1.15	-0.01
62	CO438	Connected member	-14.19	0	-0.54	-0.75	0
	CO438	Main member	-11.82	-0.01	0.07	0.4	0.01
	CO439	Connected member	-72.26	0	-0.98	-1.05	-0.02
62	CO439	Connected member	-30.21	0	-0.52	-0.68	0
	CO439	Main member	-14.46	-0.01	0.1	0.36	0.01
	CO440	Connected member	-66.51	0	-0.99	-1.04	-0.02
62	CO440	Connected member	-24.85	0	-0.52	-0.7	0
	CO440	Main member	-12.6	-0.01	0.09	0.34	0.01
	CO441	Connected member	-78.34	0	-0.97	-1.02	-0.02
62	CO441	Connected member	-33.1	0	-0.52	-0.67	0
	CO441	Main member	-14.61	-0.01	0.11	0.35	0.02
	CO442	Connected member	-72.6	0	-0.97	-1.01	-0.02
62	CO442	Connected member	-27.74	0	-0.52	-0.69	0
	CO442	Main member	-12.75	-0.01	0.09	0.33	0.01
	CO443	Connected member	-56.01	0	-1.02	-1.12	-0.01
62	CO443	Connected member	-22.45	0	-0.53	-0.72	0
	CO443	Main member	-13.83	-0.01	0.09	0.4	0.01
	CO444	Connected member	-50.26	0	-1.02	-1.12	-0.01
62	CO444	Connected member	-17.08	0	-0.53	-0.74	0
	CO444	Main member	-11.97	-0.01	0.08	0.38	0.01
	CO445	Connected member	-111.33	0.05	-1.28	-3.71	-0.12
62	CO445	Connected member	-18.55	0	-0.34	0.35	0.01
	CO445	Main member	0.12	-0.01	4.89	4.06	0.1
	CO446	Connected member	-79.77	0.05	-1.38	-3.88	-0.09
62	CO446	Connected member	-2.75	-0.01	-0.34	0.29	0.02
	CO446	Main member	2.29	0.01	4.89	4.17	0.09
	CO447	Connected member	-72.87	0.24	-2.16	-8.33	-2.78
62	CO447	Connected member	-4.57	0.04	-0.11	1.53	-0.14
	CO447	Main member	-14.69	-1.26	11.26	9.86	2.34
	CO448	Connected member	-33.03	0.3	-2.33	-8.54	-2.79
62	CO448	Connected member	-8.71	0.04	-0.13	1.46	-0.14
	CO448	Main member	-14.8	-1.24	11.24	10.01	2.35
	CO449	Connected member	-32.55	0.3	-2.33	-8.56	-2.82
62	CO449	Connected member	-7.78	0.05	-0.13	1.46	-0.16
	CO449	Main member	-14.88	-1.26	11.24	10.02	2.36
	CO450	Connected member	4.96	0.36	-2.49	-8.81	-2.86
62	CO450	Connected member	9.39	0.04	-0.12	1.4	-0.13
	CO450	Main member	-13.91	-1.25	11.25	10.21	2.43
	CO451	Connected member	1.81	0.3	-3.53	-14.7	-2.34
62	CO451	Connected member	12.48	0.03	0.26	3.24	-0.09
	CO451	Main member	-14.67	-1.02	20.25	17.94	2
	CO452	Connected member	-98.8	0.05	-1.34	-3.84	-0.11
62	CO452	Connected member	-18.58	0	-0.34	0.33	0.01
	CO452	Main member	-2.93	-0.01	4.91	4.17	0.1
	CO453	Connected member	-93.42	0.05	-1.32	-3.74	-0.1
62	CO453	Connected member	-3.26	0	-0.34	0.31	0.01
	CO453	Main member	5.27	0	4.87	4.05	0.09
	CO454	Connected member	-105.57	0.05	-1.29	-3.7	-0.11
62	CO454	Connected member	-13.19	0	-0.34	0.34	0.01
	CO454	Main member	1.98	0	4.88	4.04	0.1
	CO455	Connected member	-74.01	0.04	-1.39	-3.88	-0.09
62	CO455	Connected member	2.61	-0.01	-0.34	0.28	0.02
	CO455	Main member	4.15	0.01	4.87	4.15	0.09
	CO456	Connected member	-67.12	0.25	-2.18	-8.33	-2.79
62	CO456	Connected member	0.79	0.04	-0.11	1.52	-0.14
	CO456	Main member	-12.82	-1.26	11.25	9.84	2.35
	CO457	Connected member	-27.28	0.3	-2.34	-8.54	-2.8
62	CO457	Connected member	-3.35	0.04	-0.12	1.46	-0.14
	CO457	Main member	-12.94	-1.24	11.22	10	2.36
	CO458	Connected member	-26.8	0.31	-2.34	-8.55	-2.83
62	CO458	Connected member	-2.42	0.05	-0.12	1.45	-0.17
	CO458	Main member	-13.02	-1.26	11.23	10	2.37
	CO459	Connected member	10.71	0.37	-2.51	-8.8	-2.87
	CO459	Connected member	14.75	0.04	-0.12	1.39	-0.14



::LAV/team::

Page: 87/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO459	Main member	-12.04	-1.25	11.23	10.19	2.43
	CO460	Connected member	7.57	0.31	-3.56	-14.69	-2.34
	CO460	Connected member	17.84	0.03	0.27	3.24	-0.09
62	CO460	Main member	-12.81	-1.02	20.23	17.93	2
	CO461	Connected member	-93.05	0.05	-1.35	-3.84	-0.11
	CO461	Connected member	-13.22	0	-0.34	0.32	0.01
62	CO461	Main member	-1.07	0	4.89	4.16	0.09
	CO462	Connected member	-87.66	0.05	-1.33	-3.74	-0.1
	CO462	Connected member	2.1	0	-0.34	0.3	0.01
62	CO462	Main member	7.13	0	4.86	4.04	0.09
	CO463	Connected member	-117.42	0.05	-1.26	-3.67	-0.12
	CO463	Connected member	-21.44	0	-0.34	0.36	0.01
62	CO463	Main member	-0.03	-0.01	4.89	4.04	0.1
	CO464	Connected member	-85.86	0.05	-1.36	-3.85	-0.1
	CO464	Connected member	-5.64	-0.01	-0.34	0.3	0.02
62	CO464	Main member	2.14	0.01	4.89	4.15	0.09
	CO465	Connected member	-78.95	0.23	-2.14	-8.29	-2.77
	CO465	Connected member	-7.46	0.04	-0.11	1.54	-0.14
62	CO465	Main member	-14.84	-1.26	11.27	9.83	2.33
	CO466	Connected member	-39.11	0.29	-2.3	-8.51	-2.78
	CO466	Connected member	-11.6	0.04	-0.13	1.47	-0.14
62	CO466	Main member	-14.95	-1.25	11.24	9.98	2.35
	CO467	Connected member	-38.63	0.29	-2.3	-8.52	-2.82
	CO467	Connected member	-10.67	0.05	-0.13	1.47	-0.16
62	CO467	Main member	-15.04	-1.26	11.25	9.99	2.36
	CO468	Connected member	-1.12	0.35	-2.47	-8.77	-2.85
	CO468	Connected member	6.5	0.04	-0.12	1.41	-0.13
62	CO468	Main member	-14.06	-1.25	11.25	10.18	2.42
	CO469	Connected member	-4.27	0.3	-3.5	-14.66	-2.33
	CO469	Connected member	9.59	0.03	0.25	3.25	-0.09
62	CO469	Main member	-14.82	-1.02	20.25	17.91	1.99
	CO470	Connected member	-104.89	0.05	-1.32	-3.81	-0.11
	CO470	Connected member	-21.47	0	-0.34	0.34	0.01
62	CO470	Main member	-3.08	-0.01	4.91	4.15	0.1
	CO471	Connected member	-99.51	0.05	-1.3	-3.71	-0.11
	CO471	Connected member	-6.15	0	-0.34	0.32	0.01
62	CO471	Main member	5.13	0	4.88	4.03	0.1
	CO472	Connected member	-111.66	0.05	-1.27	-3.67	-0.11
	CO472	Connected member	-16.08	0	-0.34	0.35	0.01
62	CO472	Main member	1.83	0	4.88	4.02	0.1
	CO473	Connected member	-80.1	0.04	-1.37	-3.84	-0.09
	CO473	Connected member	-0.28	-0.01	-0.34	0.29	0.02
62	CO473	Main member	4	0.01	4.88	4.13	0.09
	CO474	Connected member	-73.2	0.24	-2.15	-8.29	-2.78
	CO474	Connected member	-2.1	0.04	-0.11	1.53	-0.14
62	CO474	Main member	-12.97	-1.26	11.25	9.82	2.34
	CO475	Connected member	-33.36	0.3	-2.31	-8.5	-2.79
	CO475	Connected member	-6.24	0.04	-0.12	1.47	-0.14
62	CO475	Main member	-13.09	-1.24	11.23	9.97	2.35
	CO476	Connected member	-32.88	0.3	-2.32	-8.52	-2.82
	CO476	Connected member	-5.31	0.05	-0.12	1.46	-0.16
62	CO476	Main member	-13.17	-1.26	11.23	9.98	2.36
	CO477	Connected member	4.63	0.36	-2.48	-8.77	-2.86
	CO477	Connected member	11.86	0.04	-0.12	1.4	-0.13
62	CO477	Main member	-12.2	-1.25	11.24	10.17	2.43
	CO478	Connected member	1.49	0.3	-3.52	-14.66	-2.34
	CO478	Connected member	14.95	0.03	0.26	3.24	-0.09
62	CO478	Main member	-12.96	-1.02	20.23	17.9	2
	CO479	Connected member	-99.14	0.05	-1.33	-3.81	-0.11
	CO479	Connected member	-16.11	0	-0.34	0.33	0.01
62	CO479	Main member	-1.22	0	4.9	4.14	0.1
	CO480	Connected member	-93.76	0.05	-1.31	-3.71	-0.1
	CO480	Connected member	-0.79	0	-0.34	0.31	0.01
62	CO480	Main member	6.99	0	4.86	4.02	0.09
	CO481	Connected member	-95.05	0.05	-1.34	-3.79	-0.11
	CO481	Connected member	-10.79	0	-0.34	0.32	0.01
62	CO481	Main member	0.73	0	4.88	4.11	0.1
	CO482	Connected member	-63.49	0.04	-1.43	-3.96	-0.09
	CO482	Connected member	5.01	-0.01	-0.35	0.26	0.02
62	CO482	Main member	2.9	0.01	4.88	4.22	0.08
	CO483	Connected member	-56.61	0.27	-2.23	-8.42	-2.8
	CO483	Connected member	3.19	0.04	-0.11	1.5	-0.14
62	CO483	Main member	-14.06	-1.26	11.26	9.92	2.36
	CO484	Connected member	-16.78	0.32	-2.39	-8.63	-2.81
	CO484	Connected member	-0.95	0.04	-0.12	1.44	-0.14
62	CO484	Main member	-14.17	-1.24	11.23	10.07	2.37
	CO485	Connected member	-16.3	0.33	-2.4	-8.65	-2.85
	CO485	Connected member	-0.02	0.05	-0.12	1.43	-0.17
62	CO485	Main member	-14.25	-1.26	11.23	10.08	2.38
	CO486	Connected member	21.2	0.38	-2.56	-8.9	-2.88
	CO486	Connected member	17.15	0.04	-0.12	1.37	-0.14
62	CO486	Main member	-13.27	-1.25	11.24	10.27	2.44
	CO487	Connected member	18.06	0.32	-3.63	-14.8	-2.35
	CO487	Connected member	20.24	0.03	0.27	3.22	-0.09
62	CO487	Main member	-14.04	-1.02	20.24	18.02	2.01
	CO488	Connected member	-82.53	0.05	-1.39	-3.93	-0.1
	CO488	Connected member	-10.82	0	-0.34	0.3	0.01
62	CO488	Main member	-2.31	0	4.9	4.22	0.09
	CO489	Connected member	-77.14	0.05	-1.37	-3.83	-0.1
	CO489	Connected member	4.5	0	-0.34	0.28	0.01
62	CO489	Main member	5.89	0	4.86	4.11	0.09
	CO490	Connected member	-89.3	0.05	-1.34	-3.79	-0.11
	CO490	Connected member	-5.43	0	-0.34	0.31	0.01
62	CO490	Main member	2.59	0	4.87	4.09	0.09



::LAV/team::

Page: 88/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO491	Connected member	-57.73	0.04	-1.44	-3.96	-0.08
	CO491	Connected member	10.37	-0.01	-0.35	0.24	0.01
	CO491	Main member	4.76	0.01	4.86	4.2	0.08
62	CO492	Connected member	-50.86	0.28	-2.25	-8.42	-2.81
	CO492	Connected member	8.55	0.04	-0.1	1.49	-0.14
	CO492	Main member	-12.19	-1.26	11.24	9.91	2.37
62	CO493	Connected member	-11.03	0.33	-2.41	-8.63	-2.82
	CO493	Connected member	4.41	0.04	-0.12	1.43	-0.15
	CO493	Main member	-12.31	-1.24	11.21	10.06	2.38
62	CO494	Connected member	-10.55	0.34	-2.41	-8.64	-2.86
	CO494	Connected member	5.34	0.05	-0.12	1.43	-0.17
	CO494	Main member	-12.39	-1.26	11.22	10.07	2.39
62	CO495	Connected member	26.96	0.39	-2.57	-8.89	-2.89
	CO495	Connected member	22.51	0.04	-0.11	1.36	-0.14
	CO495	Main member	-11.41	-1.24	11.23	10.25	2.45
62	CO496	Connected member	23.82	0.33	-3.65	-14.8	-2.36
	CO496	Connected member	25.6	0.03	0.28	3.22	-0.09
	CO496	Main member	-12.18	-1.02	20.22	18.01	2.01
62	CO497	Connected member	-76.77	0.05	-1.4	-3.92	-0.1
	CO497	Connected member	-5.46	0	-0.34	0.28	0.01
	CO497	Main member	-0.45	0	4.88	4.21	0.09
62	CO498	Connected member	-71.38	0.05	-1.38	-3.82	-0.09
	CO498	Connected member	9.86	0	-0.34	0.27	0.01
	CO498	Main member	7.75	0.01	4.85	4.09	0.09
62	CO499	Connected member	-88.96	0.05	-1.35	-3.82	-0.11
	CO499	Connected member	-7.9	0	-0.34	0.31	0.01
	CO499	Main member	0.88	0	4.88	4.13	0.09
62	CO500	Connected member	-57.4	0.04	-1.45	-4	-0.08
	CO500	Connected member	7.9	-0.01	-0.35	0.24	0.02
	CO500	Main member	3.05	0.01	4.87	4.24	0.08
62	CO501	Connected member	-50.53	0.28	-2.26	-8.46	-2.81
	CO501	Connected member	6.08	0.04	-0.1	1.49	-0.14
	CO501	Main member	-13.91	-1.26	11.25	9.95	2.37
62	CO502	Connected member	-10.7	0.33	-2.42	-8.67	-2.82
	CO502	Connected member	1.94	0.04	-0.12	1.43	-0.15
	CO502	Main member	-14.02	-1.24	11.23	10.1	2.38
62	CO503	Connected member	-10.22	0.34	-2.42	-8.68	-2.86
	CO503	Connected member	2.87	0.05	-0.12	1.42	-0.17
	CO503	Main member	-14.1	-1.26	11.23	10.11	2.39
62	CO504	Connected member	27.28	0.39	-2.58	-8.93	-2.89
	CO504	Connected member	20.04	0.04	-0.12	1.36	-0.14
	CO504	Main member	-13.12	-1.25	11.24	10.29	2.45
62	CO505	Connected member	24.14	0.33	-3.66	-14.84	-2.36
	CO505	Connected member	23.13	0.03	0.28	3.21	-0.09
	CO505	Main member	-13.88	-1.02	20.24	18.05	2.02
62	CO506	Connected member	-76.44	0.05	-1.41	-3.96	-0.1
	CO506	Connected member	-7.93	0	-0.34	0.28	0.01
	CO506	Main member	-2.17	0	4.89	4.24	0.09
62	CO507	Connected member	-71.05	0.05	-1.39	-3.86	-0.09
	CO507	Connected member	7.39	0	-0.34	0.27	0.01
	CO507	Main member	6.04	0	4.86	4.13	0.09
62	CO508	Connected member	-83.2	0.05	-1.36	-3.82	-0.1
	CO508	Connected member	-2.54	0	-0.34	0.29	0.01
	CO508	Main member	2.74	0	4.86	4.11	0.09
62	CO509	Connected member	-51.64	0.04	-1.46	-3.99	-0.08
	CO509	Connected member	13.26	-0.01	-0.35	0.23	0.01
	CO509	Main member	4.91	0.01	4.86	4.22	0.08
62	CO510	Connected member	-44.78	0.29	-2.27	-8.45	-2.82
	CO510	Connected member	11.44	0.04	-0.1	1.48	-0.14
	CO510	Main member	-12.04	-1.26	11.24	9.93	2.38
62	CO511	Connected member	-4.95	0.34	-2.43	-8.66	-2.83
	CO511	Connected member	7.3	0.04	-0.11	1.42	-0.15
	CO511	Main member	-12.15	-1.24	11.21	10.08	2.39
62	CO512	Connected member	-4.47	0.34	-2.44	-8.68	-2.86
	CO512	Connected member	8.22	0.05	-0.12	1.42	-0.17
	CO512	Main member	-12.24	-1.26	11.22	10.09	2.4
62	CO513	Connected member	33.04	0.4	-2.6	-8.92	-2.9
	CO513	Connected member	25.4	0.04	-0.11	1.35	-0.14
	CO513	Main member	-11.26	-1.24	11.22	10.28	2.46
62	CO514	Connected member	29.89	0.33	-3.68	-14.84	-2.37
	CO514	Connected member	28.49	0.03	0.29	3.21	-0.09
	CO514	Main member	-12.02	-1.02	20.22	18.04	2.02
62	CO515	Connected member	-70.68	0.04	-1.42	-3.96	-0.1
	CO515	Connected member	-2.57	0	-0.34	0.27	0.01
	CO515	Main member	-0.31	0	4.88	4.23	0.09
62	CO516	Connected member	-65.29	0.04	-1.4	-3.86	-0.09
	CO516	Connected member	12.75	0	-0.34	0.26	0.01
	CO516	Main member	7.9	0.01	4.85	4.11	0.08
62	CO517	Connected member	-92.39	0.07	-1.61	-5.69	-0.16
	CO517	Connected member	10.57	-0.01	-0.2	0.97	0.01
	CO517	Main member	11.13	0	8.04	6.66	0.14
62	CO518	Connected member	-39.74	0.06	-1.8	-5.99	-0.12
	CO518	Connected member	36.9	-0.01	-0.2	0.87	0.02
	CO518	Main member	14.72	0.02	8.04	6.86	0.11
62	CO519	Connected member	-28.42	0.51	-3.19	-13.46	-4.72
	CO519	Connected member	33.86	0.07	0.25	2.99	-0.23
	CO519	Main member	-13.46	-2.1	18.69	16.45	3.99
62	CO520	Connected member	37.96	0.66	-3.54	-13.86	-4.79
	CO520	Connected member	26.97	0.07	0.22	2.87	-0.24
	CO520	Main member	-13.64	-2.07	18.65	16.73	4.04
62	CO521	Connected member	38.75	0.67	-3.55	-13.88	-4.84
	CO521	Connected member	28.5	0.09	0.22	2.87	-0.27
	CO521	Main member	-13.78	-2.09	18.66	16.75	4.06
62	CO522	Connected member	101.24	0.82	-3.88	-14.33	-4.94



::LAVteam::

Page: 89/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO522	Connected member	57.12	0.07	0.25	2.78	-0.23
	CO522	Main member	-12.13	-2.07	18.68	17.11	4.2
	CO523	Connected member	96.01	0.67	-5.84	-24.28	-4.01
62	CO523	Connected member	62.25	0.05	1.01	5.94	-0.15
	CO523	Main member	-13.34	-1.69	33.7	30.22	3.43
	CO524	Connected member	-71.51	0.07	-1.73	-5.93	-0.15
62	CO524	Connected member	10.52	-0.01	-0.21	0.93	0.01
	CO524	Main member	6.04	0	8.08	6.86	0.13
	CO525	Connected member	-62.5	0.07	-1.69	-5.75	-0.13
62	CO525	Connected member	36.05	-0.01	-0.19	0.91	0.02
	CO525	Main member	19.7	0.01	8.01	6.66	0.12
	CO526	Connected member	-114.78	0.08	-1.53	-5.56	-0.17
62	CO526	Connected member	-0.08	-0.01	-0.2	1.01	0.01
	CO526	Main member	10.37	0	8.05	6.57	0.15
	CO527	Connected member	-62.12	0.07	-1.72	-5.87	-0.13
62	CO527	Connected member	26.25	-0.01	-0.2	0.92	0.02
	CO527	Main member	13.96	0.02	8.05	6.78	0.12
	CO528	Connected member	-50.75	0.46	-3.07	-13.32	-4.66
62	CO528	Connected member	23.22	0.07	0.24	3.02	-0.23
	CO528	Main member	-14.24	-2.1	18.7	16.33	3.94
	CO529	Connected member	15.64	0.61	-3.42	-13.73	-4.73
62	CO529	Connected member	16.33	0.07	0.2	2.9	-0.24
	CO529	Main member	-14.42	-2.07	18.66	16.63	4
	CO530	Connected member	16.43	0.62	-3.43	-13.75	-4.79
62	CO530	Connected member	17.86	0.08	0.2	2.9	-0.27
	CO530	Main member	-14.56	-2.09	18.67	16.64	4.02
	CO531	Connected member	78.93	0.77	-3.77	-14.2	-4.9
62	CO531	Connected member	46.48	0.07	0.24	2.81	-0.23
	CO531	Main member	-12.92	-2.07	18.69	17.01	4.16
	CO532	Connected member	73.69	0.63	-5.67	-24.12	-3.97
62	CO532	Connected member	51.61	0.05	0.97	5.95	-0.15
	CO532	Main member	-14.14	-1.69	33.71	30.07	3.4
	CO533	Connected member	-93.89	0.07	-1.64	-5.8	-0.16
62	CO533	Connected member	-0.13	-0.01	-0.21	0.97	0.01
	CO533	Main member	5.28	0	8.09	6.77	0.14
	CO534	Connected member	-84.9	0.07	-1.61	-5.63	-0.14
62	CO534	Connected member	25.4	-0.01	-0.19	0.95	0.02
	CO534	Main member	18.95	0.01	8.02	6.58	0.13
	CO535	Connected member	-120.88	0.08	-1.51	-5.53	-0.17
62	CO535	Connected member	-2.97	-0.01	-0.2	1.02	0.01
	CO535	Main member	10.23	0	8.06	6.55	0.15
	CO536	Connected member	-68.22	0.07	-1.7	-5.83	-0.13
62	CO536	Connected member	23.36	-0.01	-0.2	0.93	0.02
	CO536	Main member	13.81	0.02	8.05	6.76	0.12
	CO537	Connected member	-56.83	0.44	-3.04	-13.28	-4.65
62	CO537	Connected member	20.33	0.07	0.23	3.03	-0.23
	CO537	Main member	-14.4	-2.1	18.7	16.3	3.93
	CO538	Connected member	9.56	0.59	-3.39	-13.69	-4.72
62	CO538	Connected member	13.44	0.07	0.19	2.91	-0.24
	CO538	Main member	-14.58	-2.07	18.67	16.6	3.99
	CO539	Connected member	10.35	0.6	-3.4	-13.71	-4.78
62	CO539	Connected member	14.97	0.08	0.19	2.9	-0.27
	CO539	Main member	-14.72	-2.09	18.68	16.61	4.01
	CO540	Connected member	72.85	0.75	-3.74	-14.16	-4.89
62	CO540	Connected member	43.59	0.07	0.24	2.82	-0.23
	CO540	Main member	-13.07	-2.07	18.69	16.98	4.15
	CO541	Connected member	67.61	0.62	-5.63	-24.07	-3.96
62	CO541	Connected member	48.72	0.05	0.96	5.96	-0.15
	CO541	Main member	-14.29	-1.69	33.71	30.03	3.39
	CO542	Connected member	-99.98	0.07	-1.62	-5.77	-0.16
62	CO542	Connected member	-3.02	-0.01	-0.21	0.98	0.01
	CO542	Main member	5.14	0	8.09	6.75	0.14
	CO543	Connected member	-90.99	0.07	-1.58	-5.59	-0.15
62	CO543	Connected member	22.51	-0.01	-0.19	0.97	0.02
	CO543	Main member	18.81	0.01	8.03	6.56	0.13
	CO544	Connected member	-98.49	0.08	-1.59	-5.65	-0.16
62	CO544	Connected member	7.68	-0.01	-0.2	0.98	0.01
	CO544	Main member	10.98	0	8.05	6.63	0.14
	CO545	Connected member	-45.83	0.07	-1.78	-5.95	-0.12
62	CO545	Connected member	34.01	-0.01	-0.2	0.89	0.02
	CO545	Main member	14.57	0.02	8.04	6.84	0.11
	CO546	Connected member	-34.5	0.5	-3.16	-13.42	-4.7
62	CO546	Connected member	30.98	0.07	0.25	3	-0.23
	CO546	Main member	-13.62	-2.1	18.7	16.42	3.98
	CO547	Connected member	31.88	0.65	-3.51	-13.83	-4.77
62	CO547	Connected member	24.08	0.07	0.21	2.88	-0.24
	CO547	Main member	-13.79	-2.07	18.66	16.71	4.03
	CO548	Connected member	32.68	0.66	-3.51	-13.85	-4.83
62	CO548	Connected member	25.61	0.09	0.21	2.88	-0.27
	CO548	Main member	-13.93	-2.09	18.67	16.72	4.05
	CO549	Connected member	95.17	0.8	-3.85	-14.29	-4.93
62	CO549	Connected member	54.23	0.07	0.25	2.79	-0.23
	CO549	Main member	-12.28	-2.07	18.68	17.08	4.19
	CO550	Connected member	89.93	0.66	-5.8	-24.23	-4
62	CO550	Connected member	59.37	0.05	1	5.94	-0.15
	CO550	Main member	-13.5	-1.69	33.71	30.18	3.42
	CO551	Connected member	-77.6	0.07	-1.7	-5.89	-0.15
62	CO551	Connected member	7.63	-0.01	-0.21	0.94	0.01
	CO551	Main member	5.89	0	8.08	6.83	0.13
	CO552	Connected member	-68.6	0.07	-1.67	-5.72	-0.14
62	CO552	Connected member	33.16	-0.01	-0.19	0.92	0.02
	CO552	Main member	19.56	0.01	8.01	6.64	0.12
	CO553	Connected member	-126.07	0.08	-1.49	-5.5	-0.18
	CO553	Connected member	-5.43	-0.01	-0.2	1.03	0.01



::LAV/team::

Page: 90/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO553	Main member	10.11	0	8.06	6.52	0.15
	CO554	Connected member	-73.41	0.07	-1.68	-5.8	-0.13
	CO554	Connected member	20.9	-0.01	-0.2	0.94	0.03
62	CO554	Main member	13.69	0.02	8.06	6.74	0.13
	CO555	Connected member	-62.01	0.43	-3.01	-13.24	-4.63
	CO555	Connected member	17.87	0.07	0.23	3.03	-0.23
62	CO555	Main member	-14.53	-2.1	18.71	16.27	3.92
	CO556	Connected member	4.38	0.58	-3.36	-13.66	-4.71
	CO556	Connected member	10.97	0.07	0.19	2.92	-0.24
62	CO556	Main member	-14.71	-2.07	18.67	16.57	3.98
	CO557	Connected member	5.18	0.59	-3.37	-13.68	-4.76
	CO557	Connected member	12.51	0.08	0.19	2.91	-0.27
62	CO557	Main member	-14.85	-2.09	18.68	16.59	4
	CO558	Connected member	67.67	0.74	-3.71	-14.13	-4.88
	CO558	Connected member	41.13	0.07	0.23	2.83	-0.23
62	CO558	Main member	-13.21	-2.07	18.69	16.96	4.14
	CO559	Connected member	62.43	0.61	-5.59	-24.03	-3.96
	CO559	Connected member	46.26	0.05	0.95	5.96	-0.15
62	CO559	Main member	-14.42	-1.69	33.71	29.99	3.39
	CO560	Connected member	-105.18	0.08	-1.6	-5.74	-0.16
	CO560	Connected member	-5.48	-0.01	-0.21	0.99	0.01
62	CO560	Main member	5.01	0	8.09	6.73	0.15
	CO561	Connected member	-96.19	0.07	-1.56	-5.56	-0.15
	CO561	Connected member	20.04	-0.01	-0.19	0.97	0.02
62	CO561	Main member	18.68	0.01	8.03	6.54	0.14
	CO562	Connected member	-123.19	0.08	-1.49	-5.5	-0.17
	CO562	Connected member	-2.75	-0.01	-0.2	1.02	0.01
62	CO562	Main member	11.03	0	8.05	6.52	0.15
	CO563	Connected member	-70.53	0.07	-1.69	-5.8	-0.13
	CO563	Connected member	23.58	-0.01	-0.2	0.93	0.02
62	CO563	Main member	14.62	0.02	8.05	6.73	0.12
	CO564	Connected member	-59.13	0.44	-3.02	-13.24	-4.64
	CO564	Connected member	20.55	0.07	0.23	3.03	-0.23
62	CO564	Main member	-13.59	-2.1	18.7	16.27	3.92
	CO565	Connected member	7.26	0.59	-3.37	-13.65	-4.72
	CO565	Connected member	13.65	0.07	0.2	2.91	-0.24
62	CO565	Main member	-13.78	-2.07	18.66	16.57	3.98
	CO566	Connected member	8.05	0.6	-3.38	-13.68	-4.77
	CO566	Connected member	15.18	0.08	0.2	2.91	-0.27
62	CO566	Main member	-13.92	-2.09	18.67	16.58	4
	CO567	Connected member	70.55	0.75	-3.72	-14.13	-4.88
	CO567	Connected member	43.8	0.07	0.24	2.82	-0.23
62	CO567	Main member	-12.28	-2.07	18.69	16.95	4.15
	CO568	Connected member	65.31	0.62	-5.6	-24.03	-3.96
	CO568	Connected member	48.94	0.05	0.96	5.96	-0.15
62	CO568	Main member	-13.49	-1.69	33.7	29.99	3.39
	CO569	Connected member	-102.29	0.07	-1.61	-5.74	-0.16
	CO569	Connected member	-2.8	-0.01	-0.21	0.99	0.01
62	CO569	Main member	5.94	0	8.09	6.72	0.14
	CO570	Connected member	-93.3	0.07	-1.57	-5.56	-0.15
	CO570	Connected member	22.72	-0.01	-0.19	0.97	0.02
62	CO570	Main member	19.61	0.01	8.02	6.53	0.13
	CO571	Connected member	-132.17	0.08	-1.47	-5.46	-0.18
	CO571	Connected member	-8.32	-0.01	-0.2	1.04	0.01
62	CO571	Main member	9.96	0	8.06	6.5	0.16
	CO572	Connected member	-79.51	0.07	-1.66	-5.77	-0.13
	CO572	Connected member	18.01	-0.01	-0.2	0.95	0.03
62	CO572	Main member	13.54	0.02	8.06	6.72	0.13
	CO573	Connected member	-68.09	0.41	-2.98	-13.2	-4.62
	CO573	Connected member	14.98	0.07	0.22	3.04	-0.22
62	CO573	Main member	-14.68	-2.1	18.71	16.24	3.9
	CO574	Connected member	-1.7	0.56	-3.33	-13.62	-4.7
	CO574	Connected member	8.09	0.07	0.18	2.92	-0.24
62	CO574	Main member	-14.86	-2.07	18.67	16.54	3.97
	CO575	Connected member	-0.9	0.58	-3.34	-13.64	-4.75
	CO575	Connected member	9.62	0.08	0.19	2.92	-0.27
62	CO575	Main member	-15	-2.09	18.68	16.56	3.98
	CO576	Connected member	61.6	0.73	-3.68	-14.09	-4.86
	CO576	Connected member	38.24	0.07	0.23	2.83	-0.23
62	CO576	Main member	-13.36	-2.07	18.7	16.93	4.13
	CO577	Connected member	56.35	0.6	-5.54	-23.99	-3.95
	CO577	Connected member	43.38	0.05	0.94	5.96	-0.15
62	CO577	Main member	-14.58	-1.69	33.71	29.95	3.38
	CO578	Connected member	-111.27	0.08	-1.58	-5.7	-0.17
	CO578	Connected member	-8.37	-0.01	-0.21	1	0.01
62	CO578	Main member	4.87	0	8.1	6.71	0.15
	CO579	Connected member	-102.28	0.07	-1.54	-5.53	-0.15
	CO579	Connected member	17.15	-0.01	-0.19	0.99	0.02
62	CO579	Main member	18.54	0.01	8.03	6.51	0.14
	CO580	Connected member	-129.28	0.08	-1.47	-5.46	-0.18
	CO580	Connected member	-5.64	-0.01	-0.2	1.03	0.01
62	CO580	Main member	10.89	0	8.05	6.49	0.16
	CO581	Connected member	-76.62	0.07	-1.66	-5.77	-0.13
	CO581	Connected member	20.69	-0.01	-0.2	0.94	0.03
62	CO581	Main member	14.47	0.02	8.05	6.71	0.13
	CO582	Connected member	-65.21	0.42	-2.99	-13.2	-4.63
	CO582	Connected member	17.66	0.07	0.23	3.04	-0.23
62	CO582	Main member	-13.75	-2.1	18.7	16.24	3.91
	CO583	Connected member	1.18	0.57	-3.34	-13.62	-4.7
	CO583	Connected member	10.76	0.07	0.19	2.92	-0.24
62	CO583	Main member	-13.93	-2.07	18.66	16.54	3.97
	CO584	Connected member	1.97	0.59	-3.34	-13.64	-4.76
	CO584	Connected member	12.3	0.08	0.19	2.92	-0.27
62	CO584	Main member	-14.07	-2.09	18.67	16.55	3.99



::LAVteam::

Page: 91/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO585	Connected member	64.47	0.73	-3.69	-14.09	-4.87
	CO585	Connected member	40.92	0.07	0.23	2.83	-0.23
	CO585	Main member	-12.43	-2.07	18.69	16.92	4.14
62	CO586	Connected member	59.23	0.61	-5.56	-23.98	-3.95
	CO586	Connected member	46.05	0.05	0.95	5.97	-0.15
	CO586	Main member	-13.65	-1.69	33.7	29.95	3.38
62	CO587	Connected member	-108.39	0.08	-1.58	-5.7	-0.16
	CO587	Connected member	-5.69	-0.01	-0.21	1	0.01
	CO587	Main member	5.8	0	8.09	6.7	0.15
62	CO588	Connected member	-99.4	0.07	-1.55	-5.53	-0.15
	CO588	Connected member	19.83	-0.01	-0.19	0.98	0.02
	CO588	Main member	19.47	0.01	8.02	6.51	0.14
62	CO589	Connected member	-109.78	0.08	-1.55	-5.59	-0.17
	CO589	Connected member	2.33	-0.01	-0.2	1	0.01
	CO589	Main member	10.71	0	8.05	6.59	0.15
62	CO590	Connected member	-57.12	0.07	-1.74	-5.89	-0.12
	CO590	Connected member	28.66	-0.01	-0.2	0.91	0.02
	CO590	Main member	14.3	0.02	8.05	6.8	0.12
62	CO591	Connected member	-45.76	0.47	-3.1	-13.35	-4.68
	CO591	Connected member	25.63	0.07	0.24	3.01	-0.23
	CO591	Main member	-13.9	-2.1	18.7	16.36	3.95
62	CO592	Connected member	20.63	0.62	-3.45	-13.76	-4.75
	CO592	Connected member	18.73	0.07	0.2	2.89	-0.24
	CO592	Main member	-14.08	-2.07	18.66	16.65	4.01
62	CO593	Connected member	21.42	0.63	-3.45	-13.78	-4.8
	CO593	Connected member	20.26	0.08	0.2	2.89	-0.27
	CO593	Main member	-14.22	-2.09	18.67	16.67	4.03
62	CO594	Connected member	83.91	0.78	-3.79	-14.23	-4.91
	CO594	Connected member	48.88	0.07	0.24	2.8	-0.23
	CO594	Main member	-12.57	-2.07	18.69	17.03	4.17
62	CO595	Connected member	78.68	0.64	-5.71	-24.15	-3.98
	CO595	Connected member	54.02	0.05	0.98	5.95	-0.15
	CO595	Main member	-13.79	-1.69	33.71	30.1	3.41
62	CO596	Connected member	-88.89	0.07	-1.66	-5.83	-0.15
	CO596	Connected member	2.28	-0.01	-0.21	0.96	0.01
	CO596	Main member	5.62	0	8.08	6.79	0.14
62	CO597	Connected member	-79.89	0.07	-1.62	-5.65	-0.14
	CO597	Connected member	27.8	-0.01	-0.19	0.94	0.02
	CO597	Main member	19.29	0.01	8.02	6.6	0.13
62	CO598	Connected member	-106.9	0.08	-1.56	-5.59	-0.17
	CO598	Connected member	5.01	-0.01	-0.2	0.99	0.01
	CO598	Main member	11.64	0	8.04	6.58	0.14
62	CO599	Connected member	-54.24	0.07	-1.75	-5.89	-0.12
	CO599	Connected member	31.34	-0.01	-0.2	0.9	0.02
	CO599	Main member	15.23	0.02	8.04	6.79	0.12
62	CO600	Connected member	-42.88	0.48	-3.11	-13.34	-4.68
	CO600	Connected member	28.3	0.07	0.25	3.01	-0.23
	CO600	Main member	-12.97	-2.1	18.69	16.35	3.96
62	CO601	Connected member	23.5	0.63	-3.46	-13.75	-4.76
	CO601	Connected member	21.41	0.07	0.21	2.89	-0.24
	CO601	Main member	-13.15	-2.07	18.65	16.65	4.02
62	CO602	Connected member	24.3	0.64	-3.46	-13.78	-4.81
	CO602	Connected member	22.94	0.08	0.21	2.89	-0.27
	CO602	Main member	-13.29	-2.09	18.66	16.66	4.04
62	CO603	Connected member	86.79	0.78	-3.8	-14.22	-4.92
	CO603	Connected member	51.56	0.07	0.25	2.8	-0.23
	CO603	Main member	-11.64	-2.07	18.68	17.03	4.17
62	CO604	Connected member	81.56	0.65	-5.73	-24.15	-3.99
	CO604	Connected member	56.7	0.05	0.99	5.95	-0.15
	CO604	Main member	-12.86	-1.69	33.7	30.1	3.41
62	CO605	Connected member	-86.01	0.07	-1.67	-5.83	-0.15
	CO605	Connected member	4.96	-0.01	-0.21	0.96	0.01
	CO605	Main member	6.55	0	8.08	6.78	0.14
62	CO606	Connected member	-77.01	0.07	-1.63	-5.65	-0.14
	CO606	Connected member	30.48	-0.01	-0.19	0.94	0.02
	CO606	Main member	20.22	0.01	8.01	6.59	0.13
62	CO607	Connected member	-103.68	0.08	-1.57	-5.62	-0.16
	CO607	Connected member	5.22	-0.01	-0.2	0.99	0.01
	CO607	Main member	10.86	0	8.05	6.61	0.14
62	CO608	Connected member	-51.02	0.07	-1.76	-5.93	-0.12
	CO608	Connected member	31.55	-0.01	-0.2	0.89	0.02
	CO608	Main member	14.44	0.02	8.04	6.82	0.12
62	CO609	Connected member	-39.68	0.49	-3.13	-13.39	-4.69
	CO609	Connected member	28.51	0.07	0.25	3	-0.23
	CO609	Main member	-13.75	-2.1	18.7	16.39	3.97
62	CO610	Connected member	26.7	0.63	-3.48	-13.79	-4.76
	CO610	Connected member	21.62	0.07	0.21	2.89	-0.24
	CO610	Main member	-13.92	-2.07	18.66	16.68	4.02
62	CO611	Connected member	27.5	0.65	-3.49	-13.82	-4.82
	CO611	Connected member	23.15	0.08	0.21	2.88	-0.27
	CO611	Main member	-14.06	-2.09	18.67	16.7	4.04
62	CO612	Connected member	89.99	0.79	-3.83	-14.26	-4.92
	CO612	Connected member	51.77	0.07	0.25	2.8	-0.23
	CO612	Main member	-12.42	-2.07	18.68	17.06	4.18
62	CO613	Connected member	84.75	0.65	-5.76	-24.2	-3.99
	CO613	Connected member	56.91	0.05	0.99	5.95	-0.15
	CO613	Main member	-13.63	-1.69	33.71	30.14	3.42
62	CO614	Connected member	-82.79	0.07	-1.68	-5.86	-0.15
	CO614	Connected member	5.17	-0.01	-0.21	0.95	0.01
	CO614	Main member	5.77	0	8.08	6.81	0.14
62	CO615	Connected member	-73.79	0.07	-1.65	-5.69	-0.14
	CO615	Connected member	30.69	-0.01	-0.19	0.93	0.02
	CO615	Main member	19.44	0.01	8.02	6.62	0.13
62	CO616	Connected member	-100.8	0.08	-1.58	-5.62	-0.16



::LAV/team::

Page: 92/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO616	Connected member	7.9	-0.01	-0.2	0.98	0.01
	CO616	Main member	11.79	0	8.04	6.61	0.14
62	CO617	Connected member	-48.14	0.07	-1.77	-5.92	-0.12
	CO617	Connected member	34.23	-0.01	-0.2	0.89	0.02
62	CO617	Main member	15.37	0.02	8.04	6.81	0.11
	CO618	Connected member	-36.8	0.49	-3.14	-13.38	-4.7
62	CO618	Connected member	31.19	0.07	0.25	3	-0.23
	CO618	Main member	-12.81	-2.1	18.69	16.39	3.97
62	CO619	Connected member	29.58	0.64	-3.49	-13.79	-4.77
	CO619	Connected member	24.3	0.07	0.21	2.88	-0.24
62	CO619	Main member	-12.99	-2.07	18.65	16.68	4.03
	CO620	Connected member	30.38	0.65	-3.5	-13.81	-4.82
62	CO620	Connected member	25.83	0.09	0.21	2.88	-0.27
	CO620	Main member	-13.13	-2.09	18.66	16.69	4.05
62	CO621	Connected member	92.87	0.8	-3.84	-14.26	-4.93
	CO621	Connected member	54.45	0.07	0.25	2.79	-0.23
62	CO621	Main member	-11.48	-2.07	18.68	17.05	4.18
	CO622	Connected member	87.63	0.66	-5.77	-24.19	-4
62	CO622	Connected member	59.58	0.05	1	5.95	-0.15
	CO622	Main member	-12.7	-1.69	33.7	30.14	3.42
62	CO623	Connected member	-79.91	0.07	-1.69	-5.86	-0.15
	CO623	Connected member	7.85	-0.01	-0.21	0.95	0.01
62	CO623	Main member	6.7	0	8.07	6.81	0.13
	CO624	Connected member	-70.91	0.07	-1.65	-5.69	-0.14
62	CO624	Connected member	33.37	-0.01	-0.19	0.93	0.02
	CO624	Main member	20.36	0.01	8.01	6.62	0.12
62	CO625	Connected member	-27.4	0	-1.09	-1.26	-0.01
	CO625	Connected member	-8.85	0	-0.55	-0.78	0
62	CO625	Main member	-13.12	-0.01	0.07	0.47	0.01
	CO626	Connected member	-43.95	0	-1.05	-1.18	-0.01
62	CO626	Connected member	-16.74	0	-0.54	-0.75	0
	CO626	Main member	-13.7	-0.01	0.08	0.43	0.01
62	CO627	Connected member	-48.45	0	-1.04	-1.16	-0.01
	CO627	Connected member	-18.88	0	-0.53	-0.74	0
62	CO627	Main member	-13.81	-0.01	0.09	0.42	0.01
	CO628	Connected member	-31.91	0	-1.08	-1.23	-0.01
62	CO628	Connected member	-10.99	0	-0.54	-0.77	0
	CO628	Main member	-13.23	-0.01	0.07	0.46	0.01
62	CO629	Connected member	-57.43	0	-1.02	-1.12	-0.01
	CO629	Connected member	-23.12	0	-0.53	-0.72	0
62	CO629	Main member	-13.87	-0.01	0.09	0.4	0.01
	CO630	Connected member	-73.98	0	-0.98	-1.04	-0.02
62	CO630	Connected member	-31.02	0	-0.52	-0.68	0
	CO630	Main member	-14.45	-0.01	0.1	0.36	0.02
62	CO631	Connected member	-78.48	0	-0.97	-1.02	-0.02
	CO631	Connected member	-33.16	0	-0.52	-0.67	0
62	CO631	Main member	-14.56	-0.01	0.11	0.35	0.02
	CO632	Connected member	-61.94	0	-1.01	-1.1	-0.02
62	CO632	Connected member	-25.26	0	-0.53	-0.71	0
	CO632	Main member	-13.98	-0.01	0.1	0.39	0.01
62	CO633	Connected member	-81.49	0	-0.96	-1	-0.02
	CO633	Connected member	-34.58	0	-0.52	-0.66	0
62	CO633	Main member	-14.63	-0.01	0.11	0.34	0.02
	CO634	Connected member	-79.57	0	-0.96	-1	-0.02
62	CO634	Connected member	-32.8	0	-0.52	-0.67	0
	CO634	Main member	-14.01	-0.01	0.1	0.33	0.02
62	CO635	Connected member	-85.99	0	-0.95	-0.98	-0.02
	CO635	Connected member	-36.73	0	-0.51	-0.65	0
62	CO635	Main member	-14.74	-0.01	0.11	0.33	0.02
	CO636	Connected member	-84.08	0	-0.95	-0.98	-0.02
62	CO636	Connected member	-34.94	0	-0.51	-0.66	0
	CO636	Main member	-14.12	-0.01	0.11	0.32	0.02
62	CO637	Connected member	-69.45	0	-0.99	-1.06	-0.02
	CO637	Connected member	-28.83	0	-0.52	-0.69	0
62	CO637	Main member	-14.17	-0.01	0.1	0.37	0.01
	CO638	Connected member	-67.53	0	-0.99	-1.06	-0.02
62	CO638	Connected member	-27.05	0	-0.52	-0.7	0
	CO638	Main member	-13.55	-0.01	0.1	0.36	0.01
62	CO639	Connected member	-107.54	0.04	-1.16	-2.78	-0.09
	CO639	Connected member	-26.81	0	-0.4	0.02	0
62	CO639	Main member	-4.91	-0.01	3.3	2.8	0.08
	CO640	Connected member	-86.52	0.03	-1.22	-2.89	-0.07
62	CO640	Connected member	-16.27	0	-0.4	-0.02	0.01
	CO640	Main member	-3.46	0	3.3	2.87	0.07
62	CO641	Connected member	-81.89	0.15	-1.74	-5.86	-1.85
	CO641	Connected member	-17.49	0.03	-0.26	0.8	-0.09
62	CO641	Main member	-14.79	-0.85	7.55	6.65	1.56
	CO642	Connected member	-55.33	0.18	-1.83	-5.99	-1.85
62	CO642	Connected member	-20.25	0.03	-0.27	0.76	-0.1
	CO642	Main member	-14.87	-0.83	7.53	6.75	1.56
62	CO643	Connected member	-55.01	0.18	-1.83	-5.99	-1.87
	CO643	Connected member	-19.63	0.03	-0.27	0.76	-0.11
62	CO643	Main member	-14.92	-0.84	7.53	6.75	1.56
	CO644	Connected member	-30	0.21	-1.92	-6.15	-1.89
62	CO644	Connected member	-8.18	0.03	-0.27	0.71	-0.09
	CO644	Main member	-14.27	-0.83	7.54	6.86	1.6
62	CO645	Connected member	-32.1	0.18	-2.59	-10.06	-1.55
	CO645	Connected member	-6.12	0.02	-0.04	1.92	-0.06
62	CO645	Main member	-14.8	-0.68	13.53	11.99	1.32
	CO646	Connected member	-99.2	0.03	-1.2	-2.87	-0.08
62	CO646	Connected member	-26.83	0	-0.4	0.01	0.01
	CO646	Main member	-6.94	-0.01	3.31	2.88	0.07
62	CO647	Connected member	-95.61	0.03	-1.18	-2.81	-0.08
	CO647	Connected member	-16.62	0	-0.4	-0.01	0.01



::LAV/team::

Page: 93/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO647	Main member	-1.47	0	3.29	2.8	0.07
	CO648	Connected member	-105.63	0.04	-1.16	-2.78	-0.09
	CO648	Connected member	-25.02	0	-0.4	0.02	0
62	CO648	Main member	-4.29	-0.01	3.3	2.8	0.07
	CO649	Connected member	-84.6	0.03	-1.23	-2.89	-0.07
	CO649	Connected member	-14.49	0	-0.4	-0.02	0.01
62	CO649	Main member	-2.84	0	3.3	2.87	0.07
	CO650	Connected member	-79.97	0.16	-1.74	-5.85	-1.85
	CO650	Connected member	-15.71	0.03	-0.26	0.79	-0.09
62	CO650	Main member	-14.17	-0.85	7.54	6.65	1.56
	CO651	Connected member	-53.41	0.18	-1.83	-5.98	-1.85
	CO651	Connected member	-18.46	0.03	-0.27	0.76	-0.1
62	CO651	Main member	-14.24	-0.83	7.52	6.74	1.56
	CO652	Connected member	-53.09	0.18	-1.83	-5.99	-1.87
	CO652	Connected member	-17.84	0.03	-0.27	0.75	-0.11
62	CO652	Main member	-14.3	-0.84	7.53	6.75	1.57
	CO653	Connected member	-28.08	0.21	-1.93	-6.15	-1.89
	CO653	Connected member	-6.4	0.03	-0.27	0.71	-0.09
62	CO653	Main member	-13.65	-0.83	7.53	6.86	1.6
	CO654	Connected member	-30.18	0.18	-2.59	-10.06	-1.55
	CO654	Connected member	-4.33	0.02	-0.04	1.92	-0.06
62	CO654	Main member	-14.17	-0.68	13.52	11.98	1.32
	CO655	Connected member	-97.28	0.03	-1.2	-2.87	-0.08
	CO655	Connected member	-25.04	0	-0.4	0	0.01
62	CO655	Main member	-6.32	-0.01	3.31	2.87	0.07
	CO656	Connected member	-93.7	0.03	-1.19	-2.8	-0.08
	CO656	Connected member	-14.83	0	-0.4	-0.01	0.01
62	CO656	Main member	-0.85	0	3.29	2.79	0.07
	CO657	Connected member	-112.05	0.04	-1.15	-2.76	-0.09
	CO657	Connected member	-28.95	0	-0.4	0.03	0
62	CO657	Main member	-5.02	-0.01	3.31	2.79	0.08
	CO658	Connected member	-91.03	0.03	-1.21	-2.87	-0.07
	CO658	Connected member	-18.42	0	-0.4	-0.01	0.01
62	CO658	Main member	-3.57	0	3.3	2.86	0.07
	CO659	Connected member	-86.4	0.15	-1.72	-5.83	-1.85
	CO659	Connected member	-19.63	0.03	-0.26	0.8	-0.09
62	CO659	Main member	-14.9	-0.85	7.55	6.63	1.56
	CO660	Connected member	-59.83	0.17	-1.81	-5.96	-1.85
	CO660	Connected member	-22.39	0.03	-0.27	0.77	-0.1
62	CO660	Main member	-14.98	-0.83	7.53	6.73	1.55
	CO661	Connected member	-59.51	0.18	-1.81	-5.97	-1.87
	CO661	Connected member	-21.77	0.03	-0.27	0.76	-0.11
62	CO661	Main member	-15.03	-0.84	7.54	6.73	1.56
	CO662	Connected member	-34.51	0.2	-1.91	-6.13	-1.88
	CO662	Connected member	-10.33	0.03	-0.27	0.72	-0.09
62	CO662	Main member	-14.39	-0.83	7.54	6.85	1.59
	CO663	Connected member	-36.61	0.17	-2.57	-10.04	-1.55
	CO663	Connected member	-8.26	0.02	-0.04	1.93	-0.06
62	CO663	Main member	-14.91	-0.68	13.53	11.97	1.32
	CO664	Connected member	-103.71	0.03	-1.19	-2.85	-0.08
	CO664	Connected member	-28.97	0	-0.4	0.02	0.01
62	CO664	Main member	-7.05	-0.01	3.32	2.86	0.07
	CO665	Connected member	-100.12	0.03	-1.17	-2.78	-0.08
	CO665	Connected member	-18.76	0	-0.4	0	0.01
62	CO665	Main member	-1.58	0	3.29	2.79	0.07
	CO666	Connected member	-110.14	0.04	-1.15	-2.76	-0.09
	CO666	Connected member	-27.16	0	-0.4	0.03	0
62	CO666	Main member	-4.4	-0.01	3.3	2.78	0.08
	CO667	Connected member	-89.11	0.03	-1.21	-2.87	-0.07
	CO667	Connected member	-16.63	0	-0.4	-0.02	0.01
62	CO667	Main member	-2.95	0	3.3	2.85	0.07
	CO668	Connected member	-84.48	0.15	-1.72	-5.83	-1.85
	CO668	Connected member	-17.85	0.03	-0.26	0.8	-0.09
62	CO668	Main member	-14.28	-0.85	7.55	6.63	1.56
	CO669	Connected member	-57.92	0.17	-1.82	-5.96	-1.85
	CO669	Connected member	-20.6	0.03	-0.27	0.76	-0.1
62	CO669	Main member	-14.36	-0.83	7.53	6.72	1.56
	CO670	Connected member	-57.6	0.18	-1.82	-5.97	-1.87
	CO670	Connected member	-19.99	0.03	-0.27	0.76	-0.11
62	CO670	Main member	-14.41	-0.84	7.53	6.73	1.56
	CO671	Connected member	-32.59	0.2	-1.91	-6.13	-1.88
	CO671	Connected member	-8.54	0.03	-0.27	0.71	-0.09
62	CO671	Main member	-13.77	-0.83	7.53	6.84	1.59
	CO672	Connected member	-34.69	0.18	-2.57	-10.04	-1.55
	CO672	Connected member	-6.47	0.02	-0.04	1.93	-0.06
62	CO672	Main member	-14.29	-0.68	13.53	11.96	1.32
	CO673	Connected member	-101.79	0.03	-1.19	-2.85	-0.08
	CO673	Connected member	-27.18	0	-0.4	0.01	0.01
62	CO673	Main member	-6.43	-0.01	3.31	2.86	0.07
	CO674	Connected member	-98.21	0.03	-1.17	-2.78	-0.08
	CO674	Connected member	-16.97	0	-0.4	0	0.01
62	CO674	Main member	-0.96	0	3.29	2.78	0.07
	CO675	Connected member	-95.49	0.03	-1.2	-2.84	-0.08
	CO675	Connected member	-21.06	0	-0.4	0	0
62	CO675	Main member	-4.45	-0.01	3.3	2.84	0.07
	CO676	Connected member	-74.46	0.03	-1.26	-2.95	-0.07
	CO676	Connected member	-10.52	0	-0.41	-0.04	0.01
62	CO676	Main member	-3	0	3.29	2.91	0.06
	CO677	Connected member	-69.85	0.17	-1.78	-5.92	-1.86
	CO677	Connected member	-11.74	0.03	-0.26	0.77	-0.09
62	CO677	Main member	-14.32	-0.85	7.54	6.69	1.57
	CO678	Connected member	-43.29	0.19	-1.87	-6.05	-1.86
	CO678	Connected member	-14.5	0.03	-0.27	0.74	-0.1
62	CO678	Main member	-14.4	-0.83	7.52	6.79	1.57



::LAV/team::

Page: 94/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO679	Connected member	-42.97	0.19	-1.87	-6.06	-1.88
	CO679	Connected member	-13.88	0.03	-0.27	0.73	-0.11
	CO679	Main member	-14.46	-0.84	7.53	6.79	1.57
62	CO680	Connected member	-17.96	0.22	-1.97	-6.22	-1.9
	CO680	Connected member	-2.44	0.03	-0.27	0.69	-0.09
	CO680	Main member	-13.81	-0.83	7.53	6.91	1.61
62	CO681	Connected member	-20.06	0.19	-2.64	-10.13	-1.56
	CO681	Connected member	-0.37	0.02	-0.03	1.9	-0.06
	CO681	Main member	-14.33	-0.68	13.52	12.04	1.33
62	CO682	Connected member	-87.15	0.03	-1.24	-2.93	-0.08
	CO682	Connected member	-21.08	0	-0.4	-0.02	0.01
	CO682	Main member	-6.48	-0.01	3.31	2.92	0.07
62	CO683	Connected member	-83.56	0.03	-1.22	-2.87	-0.07
	CO683	Connected member	-10.87	0	-0.41	-0.03	0.01
	CO683	Main member	-1.01	0	3.28	2.84	0.07
62	CO684	Connected member	-93.57	0.03	-1.2	-2.84	-0.08
	CO684	Connected member	-19.27	0	-0.4	-0.01	0
	CO684	Main member	-3.83	-0.01	3.29	2.84	0.07
62	CO685	Connected member	-72.55	0.03	-1.26	-2.95	-0.07
	CO685	Connected member	-8.74	0	-0.41	-0.05	0.01
	CO685	Main member	-2.38	0	3.29	2.9	0.06
62	CO686	Connected member	-67.93	0.17	-1.78	-5.92	-1.86
	CO686	Connected member	-9.96	0.03	-0.26	0.77	-0.09
	CO686	Main member	-13.7	-0.85	7.54	6.69	1.57
62	CO687	Connected member	-41.37	0.19	-1.88	-6.05	-1.86
	CO687	Connected member	-12.71	0.03	-0.27	0.73	-0.1
	CO687	Main member	-13.78	-0.83	7.52	6.78	1.57
62	CO688	Connected member	-41.05	0.19	-1.88	-6.06	-1.88
	CO688	Connected member	-12.1	0.03	-0.27	0.73	-0.11
	CO688	Main member	-13.84	-0.84	7.52	6.79	1.57
62	CO689	Connected member	-16.05	0.22	-1.97	-6.22	-1.9
	CO689	Connected member	-0.65	0.03	-0.27	0.68	-0.09
	CO689	Main member	-13.19	-0.83	7.52	6.9	1.61
62	CO690	Connected member	-18.15	0.19	-2.65	-10.13	-1.56
	CO690	Connected member	1.42	0.02	-0.03	1.9	-0.06
	CO690	Main member	-13.71	-0.68	13.52	12.03	1.33
62	CO691	Connected member	-85.23	0.03	-1.24	-2.93	-0.08
	CO691	Connected member	-19.29	0	-0.4	-0.02	0.01
	CO691	Main member	-5.86	-0.01	3.3	2.91	0.07
62	CO692	Connected member	-81.64	0.03	-1.22	-2.87	-0.07
	CO692	Connected member	-9.08	0	-0.41	-0.03	0.01
	CO692	Main member	-0.39	0	3.28	2.83	0.07
62	CO693	Connected member	-100.03	0.03	-1.18	-2.82	-0.08
	CO693	Connected member	-23.24	0	-0.4	0.01	0
	CO693	Main member	-4.73	-0.01	3.3	2.83	0.07
62	CO694	Connected member	-79	0.03	-1.25	-2.93	-0.07
	CO694	Connected member	-12.71	0	-0.41	-0.04	0.01
	CO694	Main member	-3.28	0	3.3	2.9	0.07
62	CO695	Connected member	-74.38	0.16	-1.76	-5.9	-1.86
	CO695	Connected member	-13.92	0.03	-0.26	0.78	-0.09
	CO695	Main member	-14.6	-0.85	7.54	6.68	1.57
62	CO696	Connected member	-47.82	0.18	-1.86	-6.03	-1.86
	CO696	Connected member	-16.68	0.03	-0.27	0.75	-0.1
	CO696	Main member	-14.68	-0.83	7.52	6.77	1.56
62	CO697	Connected member	-47.5	0.19	-1.86	-6.03	-1.88
	CO697	Connected member	-16.06	0.03	-0.27	0.74	-0.11
	CO697	Main member	-14.73	-0.84	7.53	6.78	1.57
62	CO698	Connected member	-22.49	0.21	-1.95	-6.19	-1.89
	CO698	Connected member	-4.62	0.03	-0.27	0.7	-0.09
	CO698	Main member	-14.09	-0.83	7.53	6.89	1.6
62	CO699	Connected member	-24.59	0.18	-2.62	-10.11	-1.55
	CO699	Connected member	-2.55	0.02	-0.03	1.91	-0.06
	CO699	Main member	-14.61	-0.68	13.53	12.02	1.32
62	CO700	Connected member	-91.68	0.03	-1.22	-2.91	-0.08
	CO700	Connected member	-23.26	0	-0.4	-0.01	0.01
	CO700	Main member	-6.76	-0.01	3.31	2.9	0.07
62	CO701	Connected member	-88.1	0.03	-1.21	-2.84	-0.08
	CO701	Connected member	-13.05	0	-0.4	-0.02	0.01
	CO701	Main member	-1.29	0	3.29	2.82	0.07
62	CO702	Connected member	-104.54	0.04	-1.17	-2.8	-0.09
	CO702	Connected member	-25.38	0	-0.4	0.02	0
	CO702	Main member	-4.84	-0.01	3.3	2.81	0.07
62	CO703	Connected member	-83.51	0.03	-1.23	-2.91	-0.07
	CO703	Connected member	-14.85	0	-0.41	-0.03	0.01
	CO703	Main member	-3.39	0	3.3	2.88	0.07
62	CO704	Connected member	-78.89	0.16	-1.75	-5.87	-1.85
	CO704	Connected member	-16.06	0.03	-0.26	0.79	-0.09
	CO704	Main member	-14.71	-0.85	7.55	6.66	1.56
62	CO705	Connected member	-52.33	0.18	-1.84	-6	-1.85
	CO705	Connected member	-18.82	0.03	-0.27	0.75	-0.1
	CO705	Main member	-14.79	-0.83	7.53	6.76	1.56
62	CO706	Connected member	-52.01	0.18	-1.84	-6.01	-1.87
	CO706	Connected member	-18.2	0.03	-0.27	0.75	-0.11
	CO706	Main member	-14.85	-0.84	7.53	6.76	1.57
62	CO707	Connected member	-27	0.21	-1.94	-6.17	-1.89
	CO707	Connected member	-6.76	0.03	-0.27	0.7	-0.09
	CO707	Main member	-14.2	-0.83	7.53	6.88	1.6
62	CO708	Connected member	-29.1	0.18	-2.6	-10.08	-1.55
	CO708	Connected member	-4.69	0.02	-0.04	1.92	-0.06
	CO708	Main member	-14.72	-0.68	13.53	12	1.32
62	CO709	Connected member	-96.19	0.03	-1.21	-2.89	-0.08
	CO709	Connected member	-25.4	0	-0.4	0	0.01
	CO709	Main member	-6.87	-0.01	3.31	2.89	0.07
62	CO710	Connected member	-92.61	0.03	-1.19	-2.82	-0.08



::LAV/team::

Page: 95/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO710	Connected member	-15.19	0	-0.4	-0.01	0.01
	CO710	Main member	-1.4	0	3.29	2.81	0.07
	CO711	Connected member	-87.98	0.03	-1.22	-2.88	-0.08
62	CO711	Connected member	-17.49	0	-0.4	-0.02	0
	CO711	Main member	-4.27	-0.01	3.29	2.86	0.07
	CO712	Connected member	-66.95	0.03	-1.28	-2.99	-0.07
62	CO712	Connected member	-6.96	0	-0.41	-0.06	0.01
	CO712	Main member	-2.82	0	3.29	2.93	0.06
	CO713	Connected member	-62.34	0.17	-1.81	-5.96	-1.87
62	CO713	Connected member	-8.17	0.03	-0.26	0.76	-0.09
	CO713	Main member	-14.14	-0.85	7.54	6.72	1.58
	CO714	Connected member	-35.78	0.2	-1.9	-6.09	-1.87
62	CO714	Connected member	-10.93	0.03	-0.27	0.72	-0.1
	CO714	Main member	-14.21	-0.83	7.52	6.81	1.57
	CO715	Connected member	-35.46	0.2	-1.9	-6.1	-1.89
62	CO715	Connected member	-10.31	0.03	-0.27	0.72	-0.11
	CO715	Main member	-14.27	-0.84	7.52	6.82	1.58
	CO716	Connected member	-10.46	0.22	-1.99	-6.26	-1.9
62	CO716	Connected member	1.13	0.03	-0.27	0.67	-0.09
	CO716	Main member	-13.62	-0.83	7.52	6.93	1.61
	CO717	Connected member	-12.56	0.19	-2.68	-10.18	-1.56
62	CO717	Connected member	3.2	0.02	-0.03	1.89	-0.06
	CO717	Main member	-14.14	-0.68	13.52	12.07	1.33
	CO718	Connected member	-79.63	0.03	-1.26	-2.97	-0.08
62	CO718	Connected member	-17.51	0	-0.41	-0.03	0.01
	CO718	Main member	-6.3	-0.01	3.3	2.94	0.07
	CO719	Connected member	-76.04	0.03	-1.24	-2.9	-0.07
62	CO719	Connected member	-7.3	0	-0.41	-0.05	0.01
	CO719	Main member	-0.83	0	3.28	2.86	0.07
	CO720	Connected member	-64.94	0	-1	-1.08	-0.02
62	CO720	Connected member	-26.69	0	-0.52	-0.7	0
	CO720	Main member	-14.06	-0.01	0.1	0.38	0.01
	CO721	Connected member	-63.03	0	-1	-1.08	-0.02
62	CO721	Connected member	-24.9	0	-0.53	-0.71	0
	CO721	Main member	-13.44	-0.01	0.09	0.37	0.01
	CO722	Connected member	-90.98	0.03	-1.21	-2.87	-0.08
62	CO722	Connected member	-18.92	0	-0.4	-0.01	0
	CO722	Main member	-4.34	-0.01	3.29	2.85	0.07
	CO723	Connected member	-69.95	0.03	-1.27	-2.98	-0.07
62	CO723	Connected member	-8.38	0	-0.41	-0.05	0.01
	CO723	Main member	-2.89	0	3.29	2.92	0.06
	CO724	Connected member	-65.34	0.17	-1.8	-5.95	-1.87
62	CO724	Connected member	-9.6	0.03	-0.26	0.77	-0.09
	CO724	Main member	-14.21	-0.85	7.54	6.71	1.57
	CO725	Connected member	-38.79	0.19	-1.89	-6.07	-1.86
62	CO725	Connected member	-12.36	0.03	-0.27	0.73	-0.1
	CO725	Main member	-14.29	-0.83	7.52	6.8	1.57
	CO726	Connected member	-38.47	0.2	-1.89	-6.08	-1.89
62	CO726	Connected member	-11.74	0.03	-0.27	0.73	-0.11
	CO726	Main member	-14.34	-0.84	7.52	6.81	1.58
	CO727	Connected member	-13.46	0.22	-1.98	-6.24	-1.9
62	CO727	Connected member	-0.29	0.03	-0.27	0.68	-0.09
	CO727	Main member	-13.69	-0.83	7.53	6.92	1.61
	CO728	Connected member	-15.56	0.19	-2.66	-10.16	-1.56
62	CO728	Connected member	1.77	0.02	-0.03	1.9	-0.06
	CO728	Main member	-14.22	-0.68	13.52	12.06	1.33
	CO729	Connected member	-82.64	0.03	-1.25	-2.96	-0.08
62	CO729	Connected member	-18.94	0	-0.41	-0.03	0.01
	CO729	Main member	-6.37	-0.01	3.3	2.93	0.07
	CO730	Connected member	-79.05	0.03	-1.23	-2.89	-0.07
62	CO730	Connected member	-8.72	0	-0.41	-0.04	0.01
	CO730	Main member	-0.9	0	3.28	2.85	0.07
	CO731	Connected member	-89.07	0.03	-1.21	-2.87	-0.08
62	CO731	Connected member	-17.13	0	-0.4	-0.02	0
	CO731	Main member	-3.72	-0.01	3.29	2.85	0.07
	CO732	Connected member	-68.04	0.03	-1.27	-2.98	-0.07
62	CO732	Connected member	-6.6	0	-0.41	-0.06	0.01
	CO732	Main member	-2.27	0	3.29	2.92	0.06
	CO733	Connected member	-63.43	0.17	-1.8	-5.94	-1.87
62	CO733	Connected member	-7.81	0.03	-0.26	0.76	-0.09
	CO733	Main member	-13.59	-0.85	7.53	6.71	1.58
	CO734	Connected member	-36.87	0.19	-1.89	-6.07	-1.87
62	CO734	Connected member	-10.57	0.03	-0.27	0.73	-0.1
	CO734	Main member	-13.67	-0.83	7.51	6.8	1.57
	CO735	Connected member	-36.55	0.2	-1.89	-6.08	-1.89
62	CO735	Connected member	-9.95	0.03	-0.27	0.72	-0.11
	CO735	Main member	-13.72	-0.84	7.52	6.8	1.58
	CO736	Connected member	-11.54	0.22	-1.99	-6.24	-1.9
62	CO736	Connected member	1.49	0.03	-0.27	0.68	-0.09
	CO736	Main member	-13.07	-0.83	7.52	6.92	1.61
	CO737	Connected member	-13.64	0.19	-2.67	-10.16	-1.56
62	CO737	Connected member	3.56	0.02	-0.03	1.9	-0.06
	CO737	Main member	-13.59	-0.68	13.52	12.05	1.33
	CO738	Connected member	-80.72	0.03	-1.25	-2.95	-0.08
62	CO738	Connected member	-17.15	0	-0.41	-0.03	0.01
	CO738	Main member	-5.75	-0.01	3.3	2.92	0.07
	CO739	Connected member	-77.13	0.03	-1.24	-2.89	-0.07
62	CO739	Connected member	-6.94	0	-0.41	-0.04	0.01
	CO739	Main member	-0.28	0	3.28	2.84	0.07
	CO740	Connected member	-83.47	0.03	-1.23	-2.91	-0.08
62	CO740	Connected member	-15.35	0	-0.4	-0.03	0
	CO740	Main member	-4.16	-0.01	3.29	2.88	0.07
	CO741	Connected member	-62.44	0.03	-1.29	-3.02	-0.06
	CO741	Connected member	-4.82	0	-0.41	-0.07	0.01



::LAV/team::

Page: 96/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO741	Main member	-2.71	0	3.29	2.95	0.06
	CO742	Connected member	-57.84	0.18	-1.82	-5.99	-1.87
	CO742	Connected member	-6.03	0.03	-0.26	0.75	-0.09
62	CO742	Main member	-14.02	-0.85	7.53	6.74	1.58
	CO743	Connected member	-31.28	0.2	-1.92	-6.11	-1.87
	CO743	Connected member	-8.79	0.03	-0.27	0.71	-0.1
62	CO743	Main member	-14.1	-0.83	7.52	6.83	1.58
	CO744	Connected member	-30.96	0.2	-1.92	-6.12	-1.89
	CO744	Connected member	-8.17	0.03	-0.27	0.71	-0.11
62	CO744	Main member	-14.16	-0.84	7.52	6.83	1.58
	CO745	Connected member	-5.95	0.23	-2.01	-6.28	-1.91
	CO745	Connected member	3.27	0.03	-0.27	0.67	-0.09
62	CO745	Main member	-13.51	-0.83	7.52	6.95	1.61
	CO746	Connected member	-8.05	0.2	-2.7	-10.2	-1.56
	CO746	Connected member	5.34	0.02	-0.03	1.89	-0.06
62	CO746	Main member	-14.03	-0.68	13.52	12.09	1.33
	CO747	Connected member	-75.12	0.03	-1.27	-2.99	-0.07
	CO747	Connected member	-15.37	0	-0.41	-0.04	0.01
62	CO747	Main member	-6.19	-0.01	3.3	2.95	0.07
	CO748	Connected member	-71.53	0.03	-1.25	-2.93	-0.07
	CO748	Connected member	-5.16	0	-0.41	-0.05	0.01
62	CO748	Main member	-0.72	0	3.28	2.87	0.06
	CO749	Connected member	-42.42	0	-1.05	-1.19	-0.01
	CO749	Connected member	-15.99	0	-0.54	-0.75	0
62	CO749	Main member	-13.49	-0.01	0.08	0.44	0.01
	CO750	Connected member	-38.58	0	-1.06	-1.18	-0.01
	CO750	Connected member	-12.41	0	-0.54	-0.76	0
62	CO750	Main member	-12.25	-0.01	0.07	0.42	0.01
	CO751	Connected member	-58.96	0	-1.01	-1.11	-0.01
	CO751	Connected member	-23.88	0	-0.53	-0.71	0
62	CO751	Main member	-14.07	-0.01	0.09	0.4	0.01
	CO752	Connected member	-55.13	0	-1.02	-1.11	-0.01
	CO752	Connected member	-20.3	0	-0.53	-0.72	0
62	CO752	Main member	-12.83	-0.01	0.08	0.38	0.01
	CO753	Connected member	-63.47	0	-1	-1.09	-0.02
	CO753	Connected member	-26.02	0	-0.53	-0.7	0
62	CO753	Main member	-14.18	-0.01	0.1	0.39	0.01
	CO754	Connected member	-59.63	0	-1.01	-1.09	-0.01
	CO754	Connected member	-22.44	0	-0.53	-0.71	0
62	CO754	Main member	-12.94	-0.01	0.09	0.37	0.01
	CO755	Connected member	-46.92	0	-1.04	-1.17	-0.01
	CO755	Connected member	-18.13	0	-0.53	-0.74	0
62	CO755	Main member	-13.61	-0.01	0.08	0.43	0.01
	CO756	Connected member	-43.09	0	-1.05	-1.16	-0.01
	CO756	Connected member	-14.55	0	-0.54	-0.75	0
62	CO756	Main member	-12.36	-0.01	0.08	0.41	0.01
	CO757	Connected member	-85	0.03	-1.23	-2.9	-0.08
	CO757	Connected member	-16.1	0	-0.4	-0.02	0
62	CO757	Main member	-4.36	-0.01	3.29	2.87	0.07
	CO758	Connected member	-63.97	0.03	-1.29	-3.01	-0.06
	CO758	Connected member	-5.57	0	-0.41	-0.07	0.01
62	CO758	Main member	-2.91	0	3.29	2.94	0.06
	CO759	Connected member	-59.36	0.18	-1.82	-5.98	-1.87
	CO759	Connected member	-6.79	0.03	-0.26	0.75	-0.09
62	CO759	Main member	-14.23	-0.85	7.54	6.73	1.58
	CO760	Connected member	-32.81	0.2	-1.91	-6.11	-1.87
	CO760	Connected member	-9.54	0.03	-0.27	0.72	-0.1
62	CO760	Main member	-14.3	-0.83	7.52	6.82	1.57
	CO761	Connected member	-32.49	0.2	-1.91	-6.12	-1.89
	CO761	Connected member	-8.93	0.03	-0.27	0.71	-0.11
62	CO761	Main member	-14.36	-0.84	7.52	6.83	1.58
	CO762	Connected member	-7.48	0.23	-2.01	-6.27	-1.9
	CO762	Connected member	2.52	0.03	-0.27	0.67	-0.09
62	CO762	Main member	-13.71	-0.83	7.52	6.94	1.61
	CO763	Connected member	-9.58	0.19	-2.69	-10.2	-1.56
	CO763	Connected member	4.58	0.02	-0.03	1.89	-0.06
62	CO763	Main member	-14.23	-0.68	13.52	12.08	1.33
	CO764	Connected member	-76.65	0.03	-1.27	-2.99	-0.07
	CO764	Connected member	-16.12	0	-0.41	-0.04	0.01
62	CO764	Main member	-6.39	-0.01	3.3	2.95	0.07
	CO765	Connected member	-73.06	0.03	-1.25	-2.92	-0.07
	CO765	Connected member	-5.91	0	-0.41	-0.05	0.01
62	CO765	Main member	-0.92	0	3.28	2.87	0.07
	CO766	Connected member	-81.16	0.03	-1.23	-2.9	-0.08
	CO766	Connected member	-12.53	0	-0.4	-0.03	0
62	CO766	Main member	-3.12	0	3.28	2.86	0.07
	CO767	Connected member	-60.13	0.03	-1.29	-3	-0.06
	CO767	Connected member	-2	0	-0.41	-0.08	0.01
62	CO767	Main member	-1.67	0	3.28	2.93	0.06
	CO768	Connected member	-55.53	0.18	-1.83	-5.98	-1.87
	CO768	Connected member	-3.21	0.03	-0.26	0.75	-0.09
62	CO768	Main member	-12.98	-0.84	7.53	6.72	1.58
	CO769	Connected member	-28.97	0.2	-1.92	-6.1	-1.87
	CO769	Connected member	-5.97	0.03	-0.26	0.71	-0.1
62	CO769	Main member	-13.06	-0.83	7.51	6.81	1.58
	CO770	Connected member	-28.65	0.21	-1.92	-6.11	-1.89
	CO770	Connected member	-5.35	0.03	-0.27	0.71	-0.11
62	CO770	Main member	-13.12	-0.84	7.51	6.82	1.58
	CO771	Connected member	-3.65	0.23	-2.01	-6.27	-1.91
	CO771	Connected member	6.09	0.03	-0.27	0.66	-0.09
62	CO771	Main member	-12.47	-0.83	7.51	6.93	1.61
	CO772	Connected member	-5.75	0.2	-2.7	-10.19	-1.56
	CO772	Connected member	8.16	0.02	-0.02	1.88	-0.06
62	CO772	Main member	-12.99	-0.68	13.51	12.08	1.33



::LAV/team::

Page: 97/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO773	Connected member	-72.82	0.03	-1.27	-2.98	-0.07
	CO773	Connected member	-12.55	0	-0.41	-0.05	0.01
	CO773	Main member	-5.15	0	3.29	2.94	0.06
62	CO774	Connected member	-69.23	0.03	-1.25	-2.92	-0.07
	CO774	Connected member	-2.34	0	-0.41	-0.06	0.01
	CO774	Main member	0.32	0	3.27	2.86	0.06
62	CO775	Connected member	-89.51	0.03	-1.22	-2.88	-0.08
	CO775	Connected member	-18.24	0	-0.4	-0.02	0
	CO775	Main member	-4.47	-0.01	3.29	2.86	0.07
62	CO776	Connected member	-68.48	0.03	-1.28	-2.99	-0.07
	CO776	Connected member	-7.71	0	-0.41	-0.06	0.01
	CO776	Main member	-3.02	0	3.29	2.93	0.06
62	CO777	Connected member	-63.87	0.17	-1.8	-5.95	-1.87
	CO777	Connected member	-8.93	0.03	-0.26	0.76	-0.09
	CO777	Main member	-14.34	-0.85	7.54	6.72	1.57
62	CO778	Connected member	-37.31	0.19	-1.89	-6.08	-1.86
	CO778	Connected member	-11.69	0.03	-0.27	0.73	-0.1
	CO778	Main member	-14.41	-0.83	7.52	6.81	1.57
62	CO779	Connected member	-36.99	0.2	-1.9	-6.09	-1.89
	CO779	Connected member	-11.07	0.03	-0.27	0.72	-0.11
	CO779	Main member	-14.47	-0.84	7.52	6.81	1.58
62	CO780	Connected member	-11.99	0.22	-1.99	-6.25	-1.9
	CO780	Connected member	0.38	0.03	-0.27	0.68	-0.09
	CO780	Main member	-13.82	-0.83	7.53	6.93	1.61
62	CO781	Connected member	-14.08	0.19	-2.67	-10.17	-1.56
	CO781	Connected member	2.44	0.02	-0.03	1.89	-0.06
	CO781	Main member	-14.34	-0.68	13.52	12.06	1.33
62	CO782	Connected member	-81.16	0.03	-1.25	-2.96	-0.08
	CO782	Connected member	-18.26	0	-0.41	-0.03	0.01
	CO782	Main member	-6.5	-0.01	3.3	2.93	0.07
62	CO783	Connected member	-77.57	0.03	-1.24	-2.9	-0.07
	CO783	Connected member	-8.05	0	-0.41	-0.04	0.01
	CO783	Main member	-1.03	0	3.28	2.86	0.07
62	CO784	Connected member	-85.67	0.03	-1.22	-2.87	-0.08
	CO784	Connected member	-14.67	0	-0.4	-0.02	0
	CO784	Main member	-3.23	-0.01	3.28	2.85	0.07
62	CO785	Connected member	-64.64	0.03	-1.28	-2.98	-0.06
	CO785	Connected member	-4.14	0	-0.41	-0.07	0.01
	CO785	Main member	-1.78	0	3.28	2.92	0.06
62	CO786	Connected member	-60.04	0.18	-1.81	-5.95	-1.87
	CO786	Connected member	-5.36	0.03	-0.26	0.76	-0.09
	CO786	Main member	-13.1	-0.84	7.53	6.71	1.58
62	CO787	Connected member	-33.48	0.2	-1.9	-6.08	-1.87
	CO787	Connected member	-8.11	0.03	-0.26	0.72	-0.1
	CO787	Main member	-13.17	-0.83	7.51	6.8	1.57
62	CO788	Connected member	-33.16	0.2	-1.9	-6.09	-1.89
	CO788	Connected member	-7.5	0.03	-0.27	0.72	-0.11
	CO788	Main member	-13.23	-0.84	7.51	6.8	1.58
62	CO789	Connected member	-8.15	0.23	-2	-6.25	-1.9
	CO789	Connected member	3.95	0.03	-0.27	0.67	-0.09
	CO789	Main member	-12.58	-0.83	7.52	6.92	1.61
62	CO790	Connected member	-10.25	0.19	-2.68	-10.17	-1.56
	CO790	Connected member	6.02	0.02	-0.03	1.89	-0.06
	CO790	Main member	-13.1	-0.68	13.51	12.06	1.33
62	CO791	Connected member	-77.33	0.03	-1.26	-2.96	-0.07
	CO791	Connected member	-14.69	0	-0.41	-0.04	0.01
	CO791	Main member	-5.26	0	3.29	2.92	0.07
62	CO792	Connected member	-73.74	0.03	-1.24	-2.89	-0.07
	CO792	Connected member	-4.48	0	-0.41	-0.05	0.01
	CO792	Main member	0.21	0	3.27	2.84	0.06
62	CO793	Connected member	-72.95	0.03	-1.26	-2.96	-0.08
	CO793	Connected member	-10.35	0	-0.41	-0.05	0
	CO793	Main member	-3.9	0	3.28	2.91	0.07
62	CO794	Connected member	-51.92	0.03	-1.32	-3.07	-0.06
	CO794	Connected member	0.18	0	-0.41	-0.09	0.01
	CO794	Main member	-2.45	0	3.28	2.98	0.06
62	CO795	Connected member	-47.33	0.19	-1.86	-6.04	-1.88
	CO795	Connected member	-1.04	0.03	-0.26	0.73	-0.09
	CO795	Main member	-13.76	-0.85	7.53	6.77	1.59
62	CO796	Connected member	-20.77	0.21	-1.95	-6.17	-1.88
	CO796	Connected member	-3.8	0.03	-0.27	0.7	-0.1
	CO796	Main member	-13.84	-0.83	7.51	6.87	1.58
62	CO797	Connected member	-20.45	0.21	-1.95	-6.18	-1.9
	CO797	Connected member	-3.18	0.03	-0.27	0.69	-0.11
	CO797	Main member	-13.89	-0.84	7.51	6.87	1.59
62	CO798	Connected member	4.55	0.24	-2.05	-6.34	-1.91
	CO798	Connected member	8.27	0.03	-0.27	0.65	-0.09
	CO798	Main member	-13.24	-0.83	7.52	6.98	1.62
62	CO799	Connected member	2.46	0.2	-2.75	-10.26	-1.57
	CO799	Connected member	10.33	0.02	-0.02	1.87	-0.06
	CO799	Main member	-13.76	-0.68	13.51	12.13	1.34
62	CO800	Connected member	-64.6	0.03	-1.3	-3.05	-0.07
	CO800	Connected member	-10.37	0	-0.41	-0.06	0.01
	CO800	Main member	-5.93	0	3.29	2.98	0.06
62	CO801	Connected member	-61.01	0.03	-1.29	-2.98	-0.07
	CO801	Connected member	-0.16	0	-0.41	-0.08	0.01
	CO801	Main member	-0.46	0	3.27	2.9	0.06
62	CO802	Connected member	-69.11	0.03	-1.27	-2.96	-0.07
	CO802	Connected member	-6.78	0	-0.41	-0.06	0
	CO802	Main member	-2.66	0	3.27	2.9	0.06
62	CO803	Connected member	-48.08	0.03	-1.33	-3.06	-0.06
	CO803	Connected member	3.75	0	-0.42	-0.1	0.01
	CO803	Main member	-1.21	0	3.27	2.96	0.06
62	CO804	Connected member	-43.49	0.19	-1.87	-6.04	-1.89



::LAV/team::

Page: 98/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO804	Connected member	2.53	0.03	-0.26	0.73	-0.09
	CO804	Main member	-12.52	-0.84	7.52	6.76	1.59
	CO805	Connected member	-16.94	0.21	-1.96	-6.17	-1.88
62	CO805	Connected member	-0.22	0.03	-0.26	0.69	-0.1
	CO805	Main member	-12.59	-0.83	7.5	6.85	1.59
	CO806	Connected member	-16.62	0.22	-1.96	-6.17	-1.9
62	CO806	Connected member	0.39	0.03	-0.27	0.69	-0.11
	CO806	Main member	-12.65	-0.84	7.5	6.86	1.59
	CO807	Connected member	8.39	0.24	-2.05	-6.33	-1.92
62	CO807	Connected member	11.84	0.03	-0.27	0.64	-0.09
	CO807	Main member	-12	-0.83	7.51	6.97	1.62
	CO808	Connected member	6.29	0.21	-2.76	-10.26	-1.57
62	CO808	Connected member	13.91	0.02	-0.02	1.86	-0.06
	CO808	Main member	-12.52	-0.68	13.5	12.13	1.34
	CO809	Connected member	-60.77	0.03	-1.31	-3.04	-0.07
62	CO809	Connected member	-6.8	0	-0.41	-0.07	0.01
	CO809	Main member	-4.69	0	3.28	2.97	0.06
	CO810	Connected member	-57.17	0.03	-1.29	-2.98	-0.07
62	CO810	Connected member	3.41	0	-0.41	-0.09	0.01
	CO810	Main member	0.78	0	3.26	2.89	0.06
	CO811	Connected member	-68.44	0.03	-1.28	-2.98	-0.07
62	CO811	Connected member	-8.21	0	-0.41	-0.06	0
	CO811	Main member	-3.79	0	3.28	2.92	0.06
	CO812	Connected member	-47.41	0.03	-1.34	-3.09	-0.06
62	CO812	Connected member	2.32	0	-0.42	-0.1	0.01
	CO812	Main member	-2.34	0	3.28	2.99	0.06
	CO813	Connected member	-42.82	0.19	-1.88	-6.07	-1.89
62	CO813	Connected member	1.1	0.03	-0.26	0.72	-0.09
	CO813	Main member	-13.65	-0.84	7.53	6.79	1.59
	CO814	Connected member	-16.27	0.21	-1.97	-6.19	-1.88
62	CO814	Connected member	-1.65	0.03	-0.27	0.69	-0.1
	CO814	Main member	-13.72	-0.83	7.51	6.88	1.59
	CO815	Connected member	-15.95	0.22	-1.97	-6.2	-1.91
62	CO815	Connected member	-1.04	0.03	-0.27	0.68	-0.11
	CO815	Main member	-13.78	-0.84	7.51	6.89	1.59
	CO816	Connected member	9.06	0.24	-2.06	-6.36	-1.92
62	CO816	Connected member	10.41	0.03	-0.27	0.64	-0.09
	CO816	Main member	-13.13	-0.83	7.51	7	1.62
	CO817	Connected member	6.96	0.21	-2.77	-10.29	-1.57
62	CO817	Connected member	12.47	0.02	-0.02	1.86	-0.06
	CO817	Main member	-13.65	-0.68	13.51	12.15	1.34
	CO818	Connected member	-60.1	0.03	-1.32	-3.07	-0.07
62	CO818	Connected member	-8.23	0	-0.41	-0.07	0.01
	CO818	Main member	-5.82	0	3.29	3	0.06
	CO819	Connected member	-56.5	0.03	-1.3	-3	-0.07
62	CO819	Connected member	1.98	0	-0.41	-0.09	0.01
	CO819	Main member	-0.35	0	3.27	2.92	0.06
	CO820	Connected member	-64.6	0.03	-1.28	-2.98	-0.07
62	CO820	Connected member	-4.64	0	-0.41	-0.07	0
	CO820	Main member	-2.55	0	3.27	2.91	0.06
	CO821	Connected member	-43.57	0.03	-1.34	-3.09	-0.06
62	CO821	Connected member	5.9	0	-0.42	-0.11	0.01
	CO821	Main member	-1.1	0	3.27	2.98	0.06
	CO822	Connected member	-38.99	0.2	-1.89	-6.06	-1.89
62	CO822	Connected member	4.68	0.03	-0.26	0.72	-0.1
	CO822	Main member	-12.41	-0.84	7.52	6.78	1.59
	CO823	Connected member	-12.43	0.22	-1.98	-6.19	-1.89
62	CO823	Connected member	1.92	0.03	-0.26	0.68	-0.1
	CO823	Main member	-12.48	-0.83	7.5	6.87	1.59
	CO824	Connected member	-12.11	0.22	-1.98	-6.2	-1.91
62	CO824	Connected member	2.54	0.03	-0.27	0.68	-0.11
	CO824	Main member	-12.54	-0.84	7.5	6.88	1.6
	CO825	Connected member	12.89	0.25	-2.07	-6.36	-1.92
62	CO825	Connected member	13.98	0.03	-0.27	0.63	-0.09
	CO825	Main member	-11.88	-0.83	7.5	6.99	1.63
	CO826	Connected member	10.8	0.21	-2.78	-10.29	-1.57
62	CO826	Connected member	16.05	0.02	-0.02	1.86	-0.06
	CO826	Main member	-12.41	-0.68	13.5	12.15	1.34
	CO827	Connected member	-56.26	0.03	-1.32	-3.07	-0.07
62	CO827	Connected member	-4.66	0	-0.41	-0.08	0.01
	CO827	Main member	-4.58	0	3.28	2.98	0.06
	CO828	Connected member	-52.67	0.03	-1.3	-3	-0.06
62	CO828	Connected member	5.55	0	-0.41	-0.09	0.01
	CO828	Main member	0.89	0	3.26	2.91	0.06
	CO829	Connected member	-70.74	0.05	-1.46	-4.24	-0.11
62	CO829	Connected member	4.1	0	-0.32	0.38	0.01
	CO829	Main member	3.05	0	5.4	4.61	0.1
	CO830	Connected member	-35.67	0.04	-1.57	-4.43	-0.08
62	CO830	Connected member	21.66	-0.01	-0.33	0.31	0.02
	CO830	Main member	5.45	0.01	5.39	4.74	0.08
	CO831	Connected member	-28.08	0.35	-2.49	-9.4	-3.15
62	CO831	Connected member	19.63	0.05	-0.04	1.7	-0.16
	CO831	Main member	-13.36	-1.4	12.48	11.1	2.66
	CO832	Connected member	16.18	0.41	-2.68	-9.64	-3.17
62	CO832	Connected member	15.03	0.05	-0.06	1.64	-0.16
	CO832	Main member	-13.48	-1.38	12.45	11.27	2.68
	CO833	Connected member	16.71	0.42	-2.68	-9.65	-3.21
62	CO833	Connected member	16.06	0.06	-0.06	1.63	-0.19
	CO833	Main member	-13.57	-1.4	12.46	11.28	2.69
	CO834	Connected member	58.37	0.48	-2.87	-9.93	-3.25
62	CO834	Connected member	35.14	0.05	-0.05	1.56	-0.15
	CO834	Main member	-12.48	-1.38	12.47	11.49	2.76
	CO835	Connected member	54.88	0.4	-4.11	-16.52	-2.65
	CO835	Connected member	38.57	0.03	0.41	3.64	-0.1



::LAV/team::

Page: 99/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO835	Main member	-13.32	-1.13	22.47	20.16	2.26
	CO836	Connected member	-56.83	0.05	-1.53	-4.39	-0.1
	CO836	Connected member	4.07	0	-0.33	0.35	0.01
62	CO836	Main member	-0.34	0	5.41	4.74	0.09
	CO837	Connected member	-50.83	0.05	-1.5	-4.28	-0.09
	CO837	Connected member	21.09	-0.01	-0.32	0.34	0.01
62	CO837	Main member	8.77	0.01	5.38	4.61	0.09
	CO838	Connected member	-87.31	0.05	-1.41	-4.15	-0.12
	CO838	Connected member	-3.79	0	-0.32	0.41	0.01
62	CO838	Main member	2.48	0	5.4	4.56	0.1
	CO839	Connected member	-52.24	0.05	-1.52	-4.34	-0.09
	CO839	Connected member	13.77	-0.01	-0.32	0.34	0.02
62	CO839	Main member	4.89	0.01	5.4	4.68	0.09
	CO840	Connected member	-44.62	0.32	-2.42	-9.3	-3.13
	CO840	Connected member	11.74	0.05	-0.05	1.73	-0.15
62	CO840	Main member	-13.94	-1.4	12.49	11.04	2.64
	CO841	Connected member	-0.36	0.38	-2.61	-9.54	-3.15
	CO841	Connected member	7.14	0.05	-0.07	1.66	-0.16
62	CO841	Main member	-14.06	-1.38	12.46	11.21	2.65
	CO842	Connected member	0.17	0.39	-2.61	-9.56	-3.18
	CO842	Connected member	8.17	0.06	-0.07	1.66	-0.18
62	CO842	Main member	-14.16	-1.4	12.47	11.22	2.67
	CO843	Connected member	41.84	0.45	-2.8	-9.84	-3.23
	CO843	Connected member	27.25	0.05	-0.06	1.59	-0.15
62	CO843	Main member	-13.06	-1.38	12.48	11.43	2.74
	CO844	Connected member	38.34	0.38	-4.02	-16.42	-2.63
	CO844	Connected member	30.68	0.03	0.39	3.66	-0.1
62	CO844	Main member	-13.91	-1.13	22.48	20.07	2.25
	CO845	Connected member	-73.39	0.05	-1.47	-4.3	-0.11
	CO845	Connected member	-3.82	0	-0.32	0.39	0.01
62	CO845	Main member	-0.91	0	5.42	4.69	0.1
	CO846	Connected member	-67.4	0.05	-1.45	-4.19	-0.1
	CO846	Connected member	13.2	-0.01	-0.32	0.37	0.01
62	CO846	Main member	8.21	0.01	5.38	4.56	0.09
	CO847	Connected member	-91.82	0.05	-1.39	-4.13	-0.12
	CO847	Connected member	-5.93	0	-0.32	0.42	0.01
62	CO847	Main member	2.37	0	5.41	4.54	0.1
	CO848	Connected member	-56.75	0.05	-1.5	-4.32	-0.09
	CO848	Connected member	11.63	-0.01	-0.32	0.35	0.02
62	CO848	Main member	4.78	0.01	5.4	4.67	0.09
	CO849	Connected member	-49.12	0.31	-2.4	-9.28	-3.12
	CO849	Connected member	9.6	0.05	-0.05	1.74	-0.15
62	CO849	Main member	-14.05	-1.4	12.49	11.02	2.63
	CO850	Connected member	-4.87	0.37	-2.59	-9.52	-3.14
	CO850	Connected member	5	0.05	-0.07	1.67	-0.16
62	CO850	Main member	-14.18	-1.38	12.46	11.19	2.65
	CO851	Connected member	-4.33	0.38	-2.59	-9.53	-3.18
	CO851	Connected member	6.03	0.06	-0.07	1.67	-0.18
62	CO851	Main member	-14.27	-1.4	12.47	11.2	2.66
	CO852	Connected member	37.33	0.45	-2.78	-9.81	-3.22
	CO852	Connected member	25.11	0.05	-0.06	1.6	-0.15
62	CO852	Main member	-13.18	-1.38	12.48	11.41	2.73
	CO853	Connected member	33.84	0.38	-3.99	-16.39	-2.63
	CO853	Connected member	28.54	0.03	0.39	3.66	-0.1
62	CO853	Main member	-14.02	-1.13	22.48	20.05	2.24
	CO854	Connected member	-77.91	0.05	-1.46	-4.28	-0.11
	CO854	Connected member	-5.96	0	-0.32	0.39	0.01
62	CO854	Main member	-1.01	0	5.43	4.67	0.1
	CO855	Connected member	-71.91	0.05	-1.43	-4.17	-0.1
	CO855	Connected member	11.06	-0.01	-0.32	0.38	0.01
62	CO855	Main member	8.1	0.01	5.39	4.54	0.09
	CO856	Connected member	-75.25	0.05	-1.45	-4.21	-0.11
	CO856	Connected member	1.96	0	-0.32	0.39	0.01
62	CO856	Main member	2.94	0	5.4	4.6	0.1
	CO857	Connected member	-40.18	0.05	-1.56	-4.4	-0.09
	CO857	Connected member	19.52	-0.01	-0.33	0.32	0.02
62	CO857	Main member	5.34	0.01	5.39	4.72	0.08
	CO858	Connected member	-32.58	0.34	-2.47	-9.37	-3.15
	CO858	Connected member	17.49	0.05	-0.04	1.71	-0.16
62	CO858	Main member	-13.48	-1.4	12.49	11.09	2.66
	CO859	Connected member	11.67	0.4	-2.66	-9.61	-3.16
	CO859	Connected member	12.89	0.05	-0.06	1.64	-0.16
62	CO859	Main member	-13.6	-1.38	12.46	11.25	2.67
	CO860	Connected member	12.2	0.41	-2.66	-9.62	-3.2
	CO860	Connected member	13.92	0.06	-0.06	1.64	-0.18
62	CO860	Main member	-13.69	-1.4	12.46	11.26	2.68
	CO861	Connected member	53.87	0.47	-2.85	-9.9	-3.24
	CO861	Connected member	33	0.05	-0.06	1.57	-0.15
62	CO861	Main member	-12.6	-1.38	12.47	11.47	2.75
	CO862	Connected member	50.38	0.4	-4.09	-16.49	-2.64
	CO862	Connected member	36.43	0.03	0.4	3.64	-0.1
62	CO862	Main member	-13.44	-1.13	22.48	20.14	2.26
	CO863	Connected member	-61.34	0.05	-1.51	-4.36	-0.1
	CO863	Connected member	1.93	0	-0.33	0.36	0.01
62	CO863	Main member	-0.45	0	5.42	4.73	0.09
	CO864	Connected member	-55.34	0.05	-1.49	-4.25	-0.1
	CO864	Connected member	18.95	-0.01	-0.32	0.35	0.01
62	CO864	Main member	8.66	0.01	5.38	4.6	0.09
	CO865	Connected member	-94.83	0.05	-1.38	-4.11	-0.12
	CO865	Connected member	-7.36	0	-0.32	0.42	0.01
62	CO865	Main member	2.3	0	5.41	4.53	0.1
	CO866	Connected member	-59.75	0.05	-1.49	-4.3	-0.09
	CO866	Connected member	10.2	-0.01	-0.32	0.36	0.02
62	CO866	Main member	4.7	0.01	5.4	4.66	0.09



::LAVteam::

Page: 100/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO867	Connected member	-52.13	0.3	-2.39	-9.26	-3.12
	CO867	Connected member	8.17	0.05	-0.05	1.74	-0.15
	CO867	Main member	-14.13	-1.4	12.5	11	2.63
62	CO868	Connected member	-7.87	0.37	-2.57	-9.5	-3.14
	CO868	Connected member	3.58	0.05	-0.07	1.67	-0.16
	CO868	Main member	-14.25	-1.38	12.47	11.17	2.64
62	CO869	Connected member	-7.34	0.38	-2.58	-9.51	-3.17
	CO869	Connected member	4.6	0.06	-0.07	1.67	-0.18
	CO869	Main member	-14.35	-1.4	12.47	11.18	2.66
62	CO870	Connected member	34.33	0.44	-2.77	-9.79	-3.22
	CO870	Connected member	23.68	0.05	-0.06	1.6	-0.15
	CO870	Main member	-13.26	-1.38	12.48	11.4	2.73
62	CO871	Connected member	30.84	0.37	-3.97	-16.37	-2.62
	CO871	Connected member	27.11	0.03	0.38	3.67	-0.1
	CO871	Main member	-14.1	-1.13	22.48	20.03	2.24
62	CO872	Connected member	-80.91	0.05	-1.45	-4.26	-0.11
	CO872	Connected member	-7.39	0	-0.32	0.4	0.01
	CO872	Main member	-1.09	0	5.43	4.66	0.1
62	CO873	Connected member	-74.92	0.05	-1.42	-4.15	-0.1
	CO873	Connected member	9.63	-0.01	-0.32	0.38	0.01
	CO873	Main member	8.03	0.01	5.39	4.53	0.09
62	CO874	Connected member	-92.91	0.05	-1.38	-4.11	-0.12
	CO874	Connected member	-5.57	0	-0.32	0.42	0.01
	CO874	Main member	2.92	0	5.4	4.53	0.1
62	CO875	Connected member	-57.83	0.05	-1.5	-4.3	-0.09
	CO875	Connected member	11.99	-0.01	-0.32	0.35	0.02
	CO875	Main member	5.32	0.01	5.4	4.65	0.09
62	CO876	Connected member	-50.21	0.31	-2.39	-9.26	-3.12
	CO876	Connected member	9.96	0.05	-0.05	1.74	-0.15
	CO876	Main member	-13.51	-1.4	12.49	11	2.63
62	CO877	Connected member	-5.95	0.37	-2.58	-9.5	-3.14
	CO877	Connected member	5.36	0.05	-0.07	1.67	-0.16
	CO877	Main member	-13.63	-1.38	12.46	11.17	2.65
62	CO878	Connected member	-5.42	0.38	-2.58	-9.51	-3.17
	CO878	Connected member	6.39	0.06	-0.07	1.67	-0.18
	CO878	Main member	-13.72	-1.4	12.47	11.18	2.66
62	CO879	Connected member	36.25	0.45	-2.77	-9.79	-3.22
	CO879	Connected member	25.47	0.05	-0.06	1.6	-0.15
	CO879	Main member	-12.63	-1.38	12.47	11.39	2.73
62	CO880	Connected member	32.76	0.37	-3.98	-16.37	-2.63
	CO880	Connected member	28.9	0.03	0.39	3.66	-0.1
	CO880	Main member	-13.48	-1.13	22.48	20.03	2.24
62	CO881	Connected member	-78.99	0.05	-1.45	-4.26	-0.11
	CO881	Connected member	-5.6	0	-0.32	0.4	0.01
	CO881	Main member	-0.47	0	5.42	4.66	0.1
62	CO882	Connected member	-73	0.05	-1.43	-4.15	-0.1
	CO882	Connected member	11.42	-0.01	-0.32	0.38	0.01
	CO882	Main member	8.65	0.01	5.38	4.53	0.09
62	CO883	Connected member	-99.34	0.05	-1.37	-4.08	-0.12
	CO883	Connected member	-9.5	0	-0.32	0.43	0.01
	CO883	Main member	2.19	0	5.41	4.52	0.11
62	CO884	Connected member	-64.27	0.05	-1.48	-4.28	-0.09
	CO884	Connected member	8.06	-0.01	-0.32	0.37	0.02
	CO884	Main member	4.6	0.01	5.41	4.64	0.09
62	CO885	Connected member	-56.63	0.3	-2.37	-9.23	-3.11
	CO885	Connected member	6.03	0.05	-0.05	1.75	-0.15
	CO885	Main member	-14.24	-1.4	12.5	10.98	2.62
62	CO886	Connected member	-12.37	0.36	-2.56	-9.48	-3.13
	CO886	Connected member	1.44	0.05	-0.07	1.68	-0.16
	CO886	Main member	-14.37	-1.38	12.47	11.16	2.64
62	CO887	Connected member	-11.84	0.37	-2.56	-9.49	-3.17
	CO887	Connected member	2.46	0.06	-0.07	1.68	-0.18
	CO887	Main member	-14.46	-1.4	12.47	11.17	2.65
62	CO888	Connected member	29.83	0.44	-2.75	-9.77	-3.21
	CO888	Connected member	21.54	0.05	-0.06	1.61	-0.15
	CO888	Main member	-13.37	-1.38	12.48	11.38	2.72
62	CO889	Connected member	26.34	0.37	-3.94	-16.34	-2.62
	CO889	Connected member	24.98	0.03	0.38	3.67	-0.1
	CO889	Main member	-14.21	-1.13	22.48	20.01	2.24
62	CO890	Connected member	-85.42	0.05	-1.43	-4.24	-0.11
	CO890	Connected member	-9.53	0	-0.32	0.41	0.01
	CO890	Main member	-1.2	0	5.43	4.65	0.1
62	CO891	Connected member	-79.44	0.05	-1.41	-4.13	-0.11
	CO891	Connected member	7.49	-0.01	-0.32	0.39	0.01
	CO891	Main member	7.92	0.01	5.39	4.52	0.1
62	CO892	Connected member	-97.42	0.05	-1.37	-4.08	-0.12
	CO892	Connected member	-7.71	0	-0.32	0.43	0.01
	CO892	Main member	2.81	0	5.41	4.51	0.1
62	CO893	Connected member	-62.35	0.05	-1.48	-4.28	-0.09
	CO893	Connected member	9.85	-0.01	-0.32	0.36	0.02
	CO893	Main member	5.21	0.01	5.4	4.64	0.09
62	CO894	Connected member	-54.71	0.3	-2.37	-9.23	-3.11
	CO894	Connected member	7.82	0.05	-0.05	1.75	-0.15
	CO894	Main member	-13.62	-1.4	12.49	10.98	2.63
62	CO895	Connected member	-10.45	0.36	-2.56	-9.47	-3.13
	CO895	Connected member	3.22	0.05	-0.07	1.68	-0.16
	CO895	Main member	-13.74	-1.38	12.46	11.15	2.64
62	CO896	Connected member	-9.92	0.37	-2.56	-9.49	-3.17
	CO896	Connected member	4.25	0.06	-0.07	1.67	-0.18
	CO896	Main member	-13.84	-1.4	12.47	11.16	2.65
62	CO897	Connected member	31.75	0.44	-2.75	-9.77	-3.21
	CO897	Connected member	23.33	0.05	-0.06	1.61	-0.15
	CO897	Main member	-12.75	-1.38	12.48	11.37	2.73
62	CO898	Connected member	28.25	0.37	-3.95	-16.34	-2.62



::LAV/team::

Page: 101/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO898	Connected member	26.76	0.03	0.38	3.67	-0.1
	CO898	Main member	-13.59	-1.13	22.48	20.01	2.24
	CO899	Connected member	-83.5	0.05	-1.44	-4.24	-0.11
62	CO899	Connected member	-7.74	0	-0.32	0.41	0.01
	CO899	Main member	-0.58	0	5.43	4.64	0.1
	CO900	Connected member	-77.52	0.05	-1.41	-4.12	-0.1
62	CO900	Connected member	9.28	-0.01	-0.32	0.39	0.01
	CO900	Main member	8.54	0.01	5.39	4.51	0.1
	CO901	Connected member	-82.77	0.05	-1.42	-4.17	-0.11
62	CO901	Connected member	-1.61	0	-0.32	0.4	0.01
	CO901	Main member	2.75	0	5.4	4.57	0.1
	CO902	Connected member	-47.7	0.05	-1.53	-4.36	-0.09
62	CO902	Connected member	15.95	-0.01	-0.33	0.33	0.02
	CO902	Main member	5.16	0.01	5.4	4.7	0.08
	CO903	Connected member	-40.09	0.33	-2.44	-9.33	-3.14
62	CO903	Connected member	13.92	0.05	-0.05	1.72	-0.16
	CO903	Main member	-13.66	-1.4	12.49	11.05	2.65
	CO904	Connected member	4.17	0.39	-2.63	-9.57	-3.15
62	CO904	Connected member	9.33	0.05	-0.07	1.65	-0.16
	CO904	Main member	-13.79	-1.38	12.46	11.22	2.66
	CO905	Connected member	4.7	0.4	-2.63	-9.58	-3.19
62	CO905	Connected member	10.35	0.06	-0.07	1.65	-0.18
	CO905	Main member	-13.88	-1.4	12.47	11.23	2.67
	CO906	Connected member	46.37	0.46	-2.82	-9.86	-3.23
62	CO906	Connected member	29.43	0.05	-0.06	1.58	-0.15
	CO906	Main member	-12.79	-1.38	12.47	11.44	2.74
	CO907	Connected member	42.87	0.39	-4.04	-16.45	-2.64
62	CO907	Connected member	32.86	0.03	0.39	3.65	-0.1
	CO907	Main member	-13.63	-1.13	22.48	20.1	2.25
	CO908	Connected member	-68.86	0.05	-1.49	-4.32	-0.11
62	CO908	Connected member	-1.64	0	-0.32	0.38	0.01
	CO908	Main member	-0.63	0	5.42	4.7	0.09
	CO909	Connected member	-62.86	0.05	-1.46	-4.21	-0.1
62	CO909	Connected member	15.38	-0.01	-0.32	0.36	0.01
	CO909	Main member	8.48	0.01	5.38	4.57	0.09
	CO910	Connected member	-80.85	0.05	-1.42	-4.17	-0.11
62	CO910	Connected member	0.18	0	-0.32	0.4	0.01
	CO910	Main member	3.37	0	5.4	4.57	0.1
	CO911	Connected member	-45.78	0.05	-1.54	-4.36	-0.09
62	CO911	Connected member	17.74	-0.01	-0.33	0.33	0.02
	CO911	Main member	5.78	0.01	5.39	4.69	0.08
	CO912	Connected member	-38.17	0.33	-2.45	-9.33	-3.14
62	CO912	Connected member	15.71	0.05	-0.04	1.72	-0.16
	CO912	Main member	-13.04	-1.4	12.48	11.05	2.65
	CO913	Connected member	6.08	0.39	-2.63	-9.57	-3.16
62	CO913	Connected member	11.11	0.05	-0.06	1.65	-0.16
	CO913	Main member	-13.16	-1.38	12.45	11.22	2.66
	CO914	Connected member	6.62	0.4	-2.64	-9.58	-3.19
62	CO914	Connected member	12.14	0.06	-0.06	1.65	-0.18
	CO914	Main member	-13.26	-1.4	12.46	11.23	2.68
	CO915	Connected member	48.28	0.47	-2.82	-9.86	-3.24
62	CO915	Connected member	31.22	0.05	-0.06	1.58	-0.15
	CO915	Main member	-12.17	-1.38	12.47	11.44	2.75
	CO916	Connected member	44.79	0.39	-4.05	-16.44	-2.64
62	CO916	Connected member	34.65	0.03	0.4	3.65	-0.1
	CO916	Main member	-13.01	-1.13	22.47	20.09	2.25
	CO917	Connected member	-66.94	0.05	-1.49	-4.32	-0.1
62	CO917	Connected member	0.15	0	-0.32	0.37	0.01
	CO917	Main member	-0.01	0	5.42	4.7	0.09
	CO918	Connected member	-60.94	0.05	-1.46	-4.21	-0.1
62	CO918	Connected member	17.17	-0.01	-0.32	0.36	0.01
	CO918	Main member	9.1	0.01	5.38	4.57	0.09
	CO919	Connected member	-78.26	0.05	-1.44	-4.2	-0.11
62	CO919	Connected member	0.53	0	-0.32	0.39	0.01
	CO919	Main member	2.86	0	5.4	4.59	0.1
	CO920	Connected member	-43.18	0.05	-1.55	-4.39	-0.09
62	CO920	Connected member	18.09	-0.01	-0.33	0.33	0.02
	CO920	Main member	5.27	0.01	5.39	4.71	0.08
	CO921	Connected member	-35.58	0.33	-2.46	-9.36	-3.14
62	CO921	Connected member	16.06	0.05	-0.04	1.72	-0.16
	CO921	Main member	-13.55	-1.4	12.49	11.07	2.65
	CO922	Connected member	8.67	0.4	-2.65	-9.59	-3.16
62	CO922	Connected member	11.47	0.05	-0.06	1.65	-0.16
	CO922	Main member	-13.67	-1.38	12.46	11.24	2.67
	CO923	Connected member	9.2	0.4	-2.65	-9.61	-3.2
62	CO923	Connected member	12.49	0.06	-0.06	1.64	-0.18
	CO923	Main member	-13.76	-1.4	12.46	11.25	2.68
	CO924	Connected member	50.87	0.47	-2.84	-9.89	-3.24
62	CO924	Connected member	31.57	0.05	-0.06	1.57	-0.15
	CO924	Main member	-12.67	-1.38	12.47	11.46	2.75
	CO925	Connected member	47.38	0.39	-4.07	-16.47	-2.64
62	CO925	Connected member	35	0.03	0.4	3.65	-0.1
	CO925	Main member	-13.51	-1.13	22.48	20.12	2.26
	CO926	Connected member	-64.35	0.05	-1.5	-4.35	-0.1
62	CO926	Connected member	0.5	0	-0.32	0.37	0.01
	CO926	Main member	-0.52	0	5.42	4.72	0.09
	CO927	Connected member	-58.35	0.05	-1.48	-4.24	-0.1
62	CO927	Connected member	17.52	-0.01	-0.32	0.35	0.01
	CO927	Main member	8.59	0.01	5.38	4.59	0.09
	CO928	Connected member	-76.34	0.05	-1.44	-4.2	-0.11
62	CO928	Connected member	2.32	0	-0.32	0.39	0.01
	CO928	Main member	3.48	0	5.39	4.58	0.1
	CO929	Connected member	-41.26	0.05	-1.55	-4.38	-0.09
	CO929	Connected member	19.88	-0.01	-0.33	0.32	0.02



::LAV/team::

Page: 102/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V_y [kN]	Shear force V_z [kN]	Moment M_y [kNm]	Moment M_z [kNm]
62	CO929	Main member	5.89	0.01	5.39	4.71	0.08
	CO930	Connected member	-33.67	0.34	-2.47	-9.35	-3.15
	CO930	Connected member	17.85	0.05	-0.04	1.71	-0.16
62	CO930	Main member	-12.93	-1.4	12.48	11.07	2.66
	CO931	Connected member	10.59	0.4	-2.65	-9.59	-3.16
	CO931	Connected member	13.25	0.05	-0.06	1.64	-0.16
62	CO931	Main member	-13.05	-1.38	12.45	11.24	2.67
	CO932	Connected member	11.12	0.41	-2.66	-9.61	-3.2
	CO932	Connected member	14.28	0.06	-0.06	1.64	-0.18
62	CO932	Main member	-13.14	-1.4	12.46	11.25	2.68
	CO933	Connected member	52.79	0.47	-2.84	-9.88	-3.24
	CO933	Connected member	33.36	0.05	-0.05	1.57	-0.15
62	CO933	Main member	-12.05	-1.38	12.47	11.46	2.75
	CO934	Connected member	49.29	0.39	-4.08	-16.47	-2.64
	CO934	Connected member	36.79	0.03	0.4	3.65	-0.1
62	CO934	Main member	-12.89	-1.13	22.47	20.12	2.26
	CO935	Connected member	-62.43	0.05	-1.51	-4.35	-0.1
	CO935	Connected member	2.29	0	-0.32	0.36	0.01
62	CO935	Main member	0.1	0	5.41	4.71	0.09
	CO936	Connected member	-56.43	0.05	-1.48	-4.23	-0.1
	CO936	Connected member	19.31	-0.01	-0.32	0.35	0.01
62	CO936	Main member	9.21	0.01	5.37	4.58	0.09
	CO937	Connected member	-27.4	0	-1.09	-1.26	-0.01
	CO937	Connected member	-8.85	0	-0.55	-0.78	0
62	CO937	Main member	-13.12	-0.01	0.07	0.47	0.01
	CO938	Connected member	-43.95	0	-1.05	-1.18	-0.01
	CO938	Connected member	-16.74	0	-0.54	-0.75	0
62	CO938	Main member	-13.7	-0.01	0.08	0.43	0.01
	CO939	Connected member	-48.45	0	-1.04	-1.16	-0.01
	CO939	Connected member	-18.88	0	-0.53	-0.74	0
62	CO939	Main member	-13.81	-0.01	0.09	0.42	0.01
	CO940	Connected member	-31.91	0	-1.08	-1.23	-0.01
	CO940	Connected member	-10.99	0	-0.54	-0.77	0
62	CO940	Main member	-13.23	-0.01	0.07	0.46	0.01
	CO941	Connected member	-30.41	0	-1.08	-1.24	-0.01
	CO941	Connected member	-10.28	0	-0.54	-0.78	0
62	CO941	Main member	-13.19	-0.01	0.07	0.46	0.01
	CO942	Connected member	-29.64	0	-1.08	-1.24	-0.01
	CO942	Connected member	-9.56	0	-0.54	-0.78	0
62	CO942	Main member	-12.94	-0.01	0.07	0.46	0.01
	CO943	Connected member	-46.95	0	-1.04	-1.17	-0.01
	CO943	Connected member	-18.17	0	-0.53	-0.74	0
62	CO943	Main member	-13.77	-0.01	0.08	0.43	0.01
	CO944	Connected member	-46.18	0	-1.04	-1.17	-0.01
	CO944	Connected member	-17.45	0	-0.53	-0.74	0
62	CO944	Main member	-13.52	-0.01	0.08	0.42	0.01
	CO945	Connected member	-51.45	0	-1.03	-1.15	-0.01
	CO945	Connected member	-20.31	0	-0.53	-0.73	0
62	CO945	Main member	-13.88	-0.01	0.09	0.41	0.01
	CO946	Connected member	-50.69	0	-1.03	-1.14	-0.01
	CO946	Connected member	-19.59	0	-0.53	-0.73	0
62	CO946	Main member	-13.63	-0.01	0.09	0.41	0.01
	CO947	Connected member	-34.91	0	-1.07	-1.22	-0.01
	CO947	Connected member	-12.42	0	-0.54	-0.77	0
62	CO947	Main member	-13.31	-0.01	0.08	0.45	0.01
	CO948	Connected member	-34.14	0	-1.07	-1.22	-0.01
	CO948	Connected member	-11.7	0	-0.54	-0.77	0
62	CO948	Main member	-13.06	-0.01	0.07	0.45	0.01
	CO949	Connected member	-36.07	0.01	-1.17	-1.86	-0.03
	CO949	Connected member	-6.26	0	-0.5	-0.55	0
62	CO949	Main member	-9.88	-0.01	1.14	1.31	0.02
	CO950	Connected member	-29.07	0.01	-1.19	-1.89	-0.03
	CO950	Connected member	-2.75	0	-0.51	-0.57	0
62	CO950	Main member	-9.4	0	1.14	1.33	0.02
	CO951	Connected member	-27.54	0.07	-1.37	-2.89	-0.64
	CO951	Connected member	-3.15	0.01	-0.45	-0.3	-0.03
62	CO951	Main member	-13.17	-0.29	2.55	2.59	0.54
	CO952	Connected member	-18.69	0.07	-1.39	-2.92	-0.63
	CO952	Connected member	-4.07	0.01	-0.46	-0.31	-0.03
62	CO952	Main member	-13.2	-0.28	2.55	2.62	0.53
	CO953	Connected member	-18.58	0.07	-1.39	-2.93	-0.64
	CO953	Connected member	-3.87	0.01	-0.46	-0.31	-0.04
62	CO953	Main member	-13.21	-0.28	2.55	2.62	0.54
	CO954	Connected member	-10.24	0.08	-1.42	-2.97	-0.64
	CO954	Connected member	-0.05	0.01	-0.46	-0.33	-0.03
62	CO954	Main member	-13	-0.28	2.55	2.65	0.54
	CO955	Connected member	-10.94	0.07	-1.65	-4.28	-0.53
	CO955	Connected member	0.64	0.01	-0.38	0.08	-0.02
62	CO955	Main member	-13.18	-0.23	4.55	4.36	0.45
	CO956	Connected member	-33.29	0.01	-1.18	-1.89	-0.03
	CO956	Connected member	-6.26	0	-0.5	-0.56	0
62	CO956	Main member	-10.56	-0.01	1.14	1.33	0.02
	CO957	Connected member	-32.1	0.01	-1.18	-1.87	-0.03
	CO957	Connected member	-2.86	0	-0.51	-0.56	0
62	CO957	Main member	-8.74	0	1.14	1.3	0.02
	CO958	Connected member	-52.62	0.01	-1.13	-1.78	-0.03
	CO958	Connected member	-14.15	0	-0.49	-0.52	0
62	CO958	Main member	-10.46	-0.01	1.15	1.26	0.03
	CO959	Connected member	-45.62	0.01	-1.14	-1.82	-0.03
	CO959	Connected member	-10.64	0	-0.5	-0.53	0
62	CO959	Main member	-9.97	0	1.15	1.28	0.03
	CO960	Connected member	-44.08	0.07	-1.32	-2.81	-0.64
	CO960	Connected member	-11.04	0.01	-0.45	-0.26	-0.03
62	CO960	Main member	-13.75	-0.29	2.56	2.55	0.54



::LAV/team::

Page: 103/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
62	CO961	Connected member	-35.23	0.07	-1.35	-2.84	-0.63
	CO961	Connected member	-11.96	0.01	-0.45	-0.27	-0.03
	CO961	Main member	-13.77	-0.28	2.56	2.57	0.53
62	CO962	Connected member	-35.12	0.07	-1.35	-2.85	-0.64
	CO962	Connected member	-11.76	0.01	-0.45	-0.27	-0.04
	CO962	Main member	-13.79	-0.28	2.56	2.57	0.53
62	CO963	Connected member	-26.79	0.07	-1.37	-2.9	-0.64
	CO963	Connected member	-7.94	0.01	-0.45	-0.29	-0.03
	CO963	Main member	-13.58	-0.28	2.56	2.61	0.54
62	CO964	Connected member	-27.49	0.06	-1.6	-4.2	-0.53
	CO964	Connected member	-7.25	0.01	-0.38	0.11	-0.02
	CO964	Main member	-13.76	-0.23	4.56	4.31	0.45
62	CO965	Connected member	-49.84	0.01	-1.14	-1.81	-0.03
	CO965	Connected member	-14.16	0	-0.5	-0.52	0
	CO965	Main member	-11.14	-0.01	1.15	1.29	0.03
62	CO966	Connected member	-48.65	0.01	-1.13	-1.79	-0.03
	CO966	Connected member	-10.75	0	-0.5	-0.53	0
	CO966	Main member	-9.31	0	1.15	1.26	0.03
62	CO967	Connected member	-57.13	0.01	-1.12	-1.76	-0.03
	CO967	Connected member	-16.29	0	-0.49	-0.51	0
	CO967	Main member	-10.57	-0.01	1.15	1.25	0.03
62	CO968	Connected member	-50.12	0.01	-1.13	-1.8	-0.03
	CO968	Connected member	-12.78	0	-0.5	-0.52	0
	CO968	Main member	-10.09	0	1.15	1.27	0.03
62	CO969	Connected member	-48.58	0.06	-1.31	-2.79	-0.64
	CO969	Connected member	-13.19	0.01	-0.45	-0.25	-0.03
	CO969	Main member	-13.86	-0.29	2.57	2.53	0.54
62	CO970	Connected member	-39.73	0.07	-1.33	-2.82	-0.63
	CO970	Connected member	-14.1	0.01	-0.45	-0.26	-0.03
	CO970	Main member	-13.89	-0.28	2.56	2.56	0.53
62	CO971	Connected member	-39.63	0.07	-1.34	-2.83	-0.64
	CO971	Connected member	-13.9	0.01	-0.45	-0.26	-0.04
	CO971	Main member	-13.91	-0.28	2.56	2.56	0.53
62	CO972	Connected member	-31.29	0.07	-1.36	-2.87	-0.64
	CO972	Connected member	-10.08	0.01	-0.45	-0.28	-0.03
	CO972	Main member	-13.69	-0.28	2.56	2.59	0.54
62	CO973	Connected member	-31.99	0.06	-1.58	-4.18	-0.53
	CO973	Connected member	-9.39	0.01	-0.38	0.12	-0.02
	CO973	Main member	-13.87	-0.23	4.56	4.3	0.45
62	CO974	Connected member	-54.35	0.01	-1.13	-1.79	-0.03
	CO974	Connected member	-16.3	0	-0.49	-0.51	0
	CO974	Main member	-11.25	-0.01	1.16	1.28	0.03
62	CO975	Connected member	-53.15	0.01	-1.12	-1.77	-0.03
	CO975	Connected member	-12.89	0	-0.5	-0.52	0
	CO975	Main member	-9.42	0	1.15	1.25	0.03
62	CO976	Connected member	-40.58	0.01	-1.16	-1.84	-0.03
	CO976	Connected member	-8.4	0	-0.5	-0.54	0
	CO976	Main member	-10	-0.01	1.14	1.29	0.03
62	CO977	Connected member	-33.57	0.01	-1.18	-1.87	-0.03
	CO977	Connected member	-4.89	0	-0.5	-0.56	0
	CO977	Main member	-9.51	0	1.14	1.31	0.02
62	CO978	Connected member	-32.04	0.07	-1.36	-2.87	-0.64
	CO978	Connected member	-5.29	0.01	-0.45	-0.29	-0.03
	CO978	Main member	-13.28	-0.29	2.56	2.58	0.54
62	CO979	Connected member	-23.19	0.07	-1.38	-2.9	-0.63
	CO979	Connected member	-6.21	0.01	-0.45	-0.3	-0.03
	CO979	Main member	-13.31	-0.28	2.55	2.61	0.53
62	CO980	Connected member	-23.08	0.07	-1.38	-2.9	-0.64
	CO980	Connected member	-6.01	0.01	-0.46	-0.3	-0.04
	CO980	Main member	-13.33	-0.28	2.55	2.61	0.53
62	CO981	Connected member	-14.75	0.07	-1.41	-2.95	-0.64
	CO981	Connected member	-2.19	0.01	-0.46	-0.32	-0.03
	CO981	Main member	-13.11	-0.28	2.55	2.64	0.54
62	CO982	Connected member	-15.45	0.06	-1.63	-4.26	-0.53
	CO982	Connected member	-1.5	0.01	-0.38	0.09	-0.02
	CO982	Main member	-13.29	-0.23	4.55	4.35	0.45
62	CO983	Connected member	-37.8	0.01	-1.17	-1.87	-0.03
	CO983	Connected member	-8.41	0	-0.5	-0.55	0
	CO983	Main member	-10.67	-0.01	1.15	1.32	0.02
62	CO984	Connected member	-36.6	0.01	-1.16	-1.85	-0.03
	CO984	Connected member	-5	0	-0.5	-0.55	0
	CO984	Main member	-8.85	0	1.14	1.29	0.02
62	CO989	Connected member	-27.4	0	-1.09	-1.26	-0.01
	CO989	Connected member	-8.85	0	-0.55	-0.78	0
	CO989	Main member	-13.12	-0.01	0.07	0.47	0.01
62	CO990	Connected member	-27.4	0	-1.09	-1.26	-0.01
	CO990	Connected member	-8.85	0	-0.55	-0.78	0
	CO990	Main member	-13.12	-0.01	0.07	0.47	0.01
62	CO991	Connected member	-43.95	0	-1.05	-1.18	-0.01
	CO991	Connected member	-16.74	0	-0.54	-0.75	0
	CO991	Main member	-13.7	-0.01	0.08	0.43	0.01
62	CO992	Connected member	-43.95	0	-1.05	-1.18	-0.01
	CO992	Connected member	-16.74	0	-0.54	-0.75	0
	CO992	Main member	-13.7	-0.01	0.08	0.43	0.01
62	CO993	Connected member	-48.45	0	-1.04	-1.16	-0.01
	CO993	Connected member	-18.88	0	-0.53	-0.74	0
	CO993	Main member	-13.81	-0.01	0.09	0.42	0.01
62	CO994	Connected member	-48.45	0	-1.04	-1.16	-0.01
	CO994	Connected member	-18.88	0	-0.53	-0.74	0
	CO994	Main member	-13.81	-0.01	0.09	0.42	0.01
62	CO995	Connected member	-31.91	0	-1.08	-1.23	-0.01
	CO995	Connected member	-10.99	0	-0.54	-0.77	0
	CO995	Main member	-13.23	-0.01	0.07	0.46	0.01
62	CO996	Connected member	-31.91	0	-1.08	-1.23	-0.01



::LAVteam::

Page: 104/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V_y [kN]	Shear force V_z [kN]	Moment M_y [kNm]	Moment M_z [kNm]
	CO996	Connected member	-10.99	0	-0.54	-0.77	0
	CO996	Main member	-13.23	-0.01	0.07	0.46	0.01

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Basic Geometry of the Joint			
Main member			
Member			
Length	l	7.3	m
Height	h	360	mm
Thickness	t	360	mm
Cross-Sectional Area	A	1296	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	288	mm
Thickness	t	16	mm
Cross-Sectional Area	A	46.08	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	5	
Number of bolt rows (z-direction)	n_{dz}	3	
Distance between bolt columns	a_1	96	mm
Distance between bolt rows	a_2	96	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	112	mm
Distance between fastener and edge No. 1	$a_{4,1}$	84	mm
Distance between fastener and edge No. 2	$a_{4,2}$	84	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	1241.51	MN/m
Slip Modulus for ULS	K_u	636.67	MN/m
Polar moment of inertia	I_p	3686.4	cm ²
Rotation Modulus for SLS	C_{ser}	30.51	MNm/rad
Rotation Modulus for ULS	C_u	15.65	MNm/rad
Bolts			
Total number of bolts		15	
Bolt types		1	
Diameter	d	16	mm
Area	A	2.01	cm ²
Length	l	360	mm
Connected Member No. 1			
Member			
Length	l	7.95	m
Height	h	300	mm
Thickness	t	250	mm
Cross-Sectional Area	A	750	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	196	mm
Thickness	t	16	mm
Cross-Sectional Area	A	31.36	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	8	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	72	mm
Distance between bolt rows	a_2	100	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	150	mm
Distance between fastener and edge No. 1	$a_{4,1}$	100	mm
Distance between fastener and edge No. 2	$a_{4,2}$	100	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	-30	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	993.21	MN/m
Slip Modulus for ULS	K_u	509.34	MN/m
Polar moment of inertia	I_p	4887.89	cm ²
Rotation Modulus for SLS	C_{ser}	30.34	MNm/rad
Rotation Modulus for ULS	C_u	15.56	MNm/rad
Bolts			
Total number of bolts		16	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	250	mm
Connected Member No. 2			
Member			
Length	l	7.78	m
Height	h	220	mm
Thickness	t	180	mm
Cross-Sectional Area	A	396	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	168	mm
Thickness	t	16	mm
Cross-Sectional Area	A	26.88	cm ²
Bolt Group			
Pattern		Rectangle	



::LAVteam::

Page: 105/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

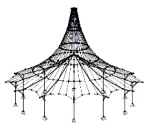
Date: 16/07/2023

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Number of bolt columns (x-direction)	n_{dx}	3	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	72	mm
Distance between bolt rows	a_2	72	mm
Distance from loaded end to bolt in grain direction	$a_{3,1}$	84	mm
Distance between fastener and edge No. 1	$a_{4,1}$	74	mm
Distance between fastener and edge No. 2	$a_{4,2}$	74	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	372.45	MN/m
Slip Modulus for ULS	K_u	191	MN/m
Polar moment of inertia	I_p	285.12	cm ²
Rotation Modulus for SLS	C_{ser}	1.77	MNm/rad
Rotation Modulus for ULS	C_u	0.91	MNm/rad
Bolts			
Total number of bolts		6	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	180	mm

2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
Main member				
62	CO259	0.10	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
62	CO33	0.17	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
62	CO33	0.17	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
62	CO259	0.59	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
62	CO33	0.48	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
62	CO33	0.10	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
62	CO7	0.09	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
62	CO259	0.44	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
62	CO261	0.25	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
62	CO261	0.43	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
62	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
62	CO265	0.17	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
62	LC15	0.03	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
62	CO522	0.13	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
62	CO211	0.08	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
Connected Member No. 1				
62	CO33	0.22	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
62	CO523	0.45	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
62	CO211	0.08	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
62	CO211	0.11	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
62	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
62	CO211	0.06	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
62	CO211	0.31	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
62	CO523	0.91	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
62	CO211	0.16	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
62	CO39	0.07	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
62	CO522	0.14	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
62	CO522	0.20	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
62	CO522	0.10	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
62	CO523	0.17	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
62	CO211	0.02	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
Connected Member No. 2				
62	CO11	0.08	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
62	CO523	0.39	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
62	CO523	0.72	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
62	CO523	0.12	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
62	CO1	0.03	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
62	CO577	0.46	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
62	CO577	0.81	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
62	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
62	CO1	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
62	CO351	0.05	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
62	CO523	0.10	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
62	CO523	0.15	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
62	CO523	0.14	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3



::LAV/team::

Page: 106/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

2.1 SUMMARY

	Governing		Check		Check formula
	Node	Load Case	Ratio		
	62	CO523	0.02	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
	62	CO674	0.02	≤ 1	6141) Timber cross-section - Compression in net cross-section acc. to 6.1.4

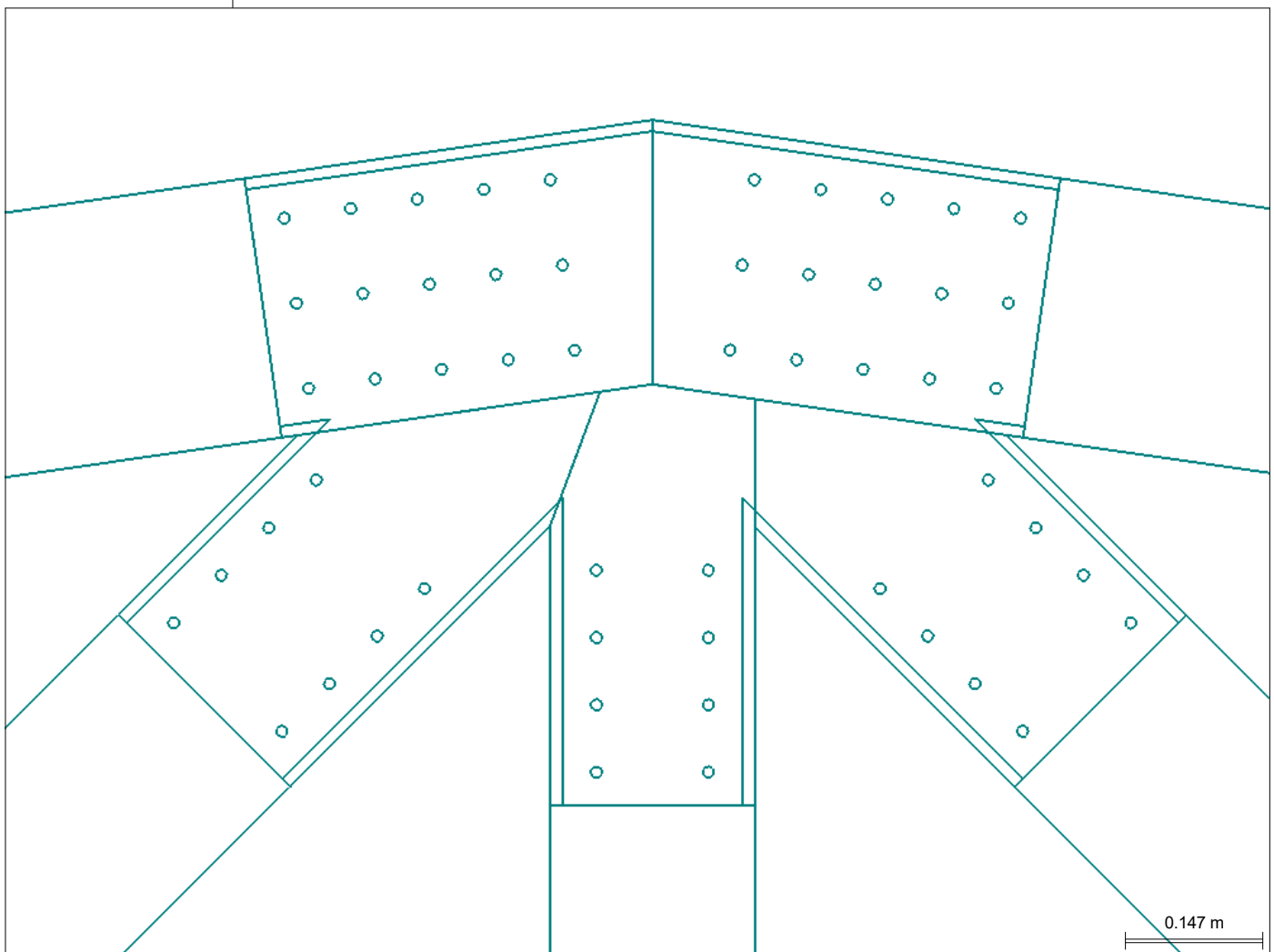
JOINTS
CA4
Design of Joints

1.1 GENERAL DATA

JOINTS CA4

	Settings for		Details	
	Design Standard	National Annex	Type of connection	Input Data
	EN 1995-1-1:2004-11	CEN	JOINTS - Steel to timber - Bolts	Import from model
				Nudo central cercha, portico interior, cordón superior

VIEW OF CONNECTION



1.2 NODES AND MEMBERS

Node No.	Member		Cross-section	Material	Angle [°]
	No.	Type			
57	106	Main member	T-Rectangle 260/280	Glulam Timber GL24h	
	112	Connected member	T-Rectangle 260/260	Glulam Timber GL24h	36.84
	124	Connected member	T-Rectangle 220/220	Glulam Timber GL24h	81.84
	129	Connected member	T-Rectangle 260/280	Glulam Timber GL24h	163.68
	135	Connected member	T-Rectangle 260/260	Glulam Timber GL24h	126.84



::LAV/team::

Page: 107/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	LC1	Main member	-15.95	0	-0.7	-0.49	0.01
	LC1	Connected member	-0.98	0	-0.68	-0.75	0.01
	LC1	Connected member	2.48	0	0	0	0
	LC1	Connected member	-15.95	0	0.7	-0.49	0.01
	LC1	Connected member	-0.98	0	0.68	-0.75	0.01
57	CO1	Main member	-21.63	-0.01	-0.94	-0.66	0.02
	CO1	Connected member	-1.3	0	-0.92	-1.02	0.01
	CO1	Connected member	3.34	0	0	0	0.01
	CO1	Connected member	-21.63	0.01	0.94	-0.66	0.02
	CO1	Connected member	-1.3	0	0.92	-1.02	0.01
57	LC2	Main member	-10.95	0	-2.6	-2.02	0
	LC2	Connected member	-1.46	0	0	0.01	0
	LC2	Connected member	0	0	0	0	0
	LC2	Connected member	-10.95	0	2.6	-2.02	0
	LC2	Connected member	-1.46	0	0	0.01	0
57	CO2	Main member	-36.49	-0.01	-4.47	-3.41	0.02
	CO2	Connected member	-3.26	0	-0.93	-1	0.02
	CO2	Connected member	3.34	0	0	0	0.01
	CO2	Connected member	-36.49	0.01	4.47	-3.41	0.02
	CO2	Connected member	-3.26	0	0.93	-1	0.02
57	LC3	Main member	-3.49	0	-0.71	-0.56	0
	LC3	Connected member	-0.31	0	0	0	0
	LC3	Connected member	0	0	0	0	0
	LC3	Connected member	-3.49	0	0.71	-0.56	0
	LC3	Connected member	-0.31	0	0	0	0
57	CO3	Main member	-41.22	-0.01	-5.43	-4.17	0.02
	CO3	Connected member	-3.66	0	-0.93	-1	0.02
	CO3	Connected member	3.34	0	0	0	0.01
	CO3	Connected member	-41.22	0.01	5.43	-4.17	0.02
	CO3	Connected member	-3.66	0	0.93	-1	0.02
57	LC4	Main member	-23.25	0	-4.77	-3.72	0.01
	LC4	Connected member	-2.04	0	-0.01	0.01	0
	LC4	Connected member	0.01	0	0	0	0
	LC4	Connected member	-23.25	0	4.77	-3.72	0.01
	LC4	Connected member	-2.04	0	0.01	0.01	0
57	CO4	Main member	-26.36	-0.01	-1.91	-1.42	0.02
	CO4	Connected member	-1.71	0	-0.93	-1.02	0.01
	CO4	Connected member	3.34	0	0	0	0.01
	CO4	Connected member	-26.36	0.01	1.91	-1.42	0.02
	CO4	Connected member	-1.71	0	0.93	-1.02	0.01
57	LC5	Main member	-11.62	0	-2.38	-1.86	0
	LC5	Connected member	-1.02	0	0	0.01	0
	LC5	Connected member	0.01	0	0	0	0
	LC5	Connected member	-11.62	0	2.38	-1.86	0
	LC5	Connected member	-1.02	0	0	0.01	0
57	CO5	Main member	-56.66	-0.01	-8.11	-6.29	0.03
	CO5	Connected member	-4.33	0	-0.93	-1	0.02
	CO5	Connected member	3.36	0	0	0	0.01
	CO5	Connected member	-56.66	0.01	8.11	-6.29	0.03
	CO5	Connected member	-4.33	0	0.93	-1	0.02
57	LC6	Main member	-22.03	-0.06	-0.29	-0.51	0.19
	LC6	Connected member	15.6	-0.03	-0.01	-0.06	0.27
	LC6	Connected member	0.03	0.03	0.02	-0.04	0.11
	LC6	Connected member	0.41	0.1	0.77	-0.56	0.31
	LC6	Connected member	-15.55	0.01	0	0.02	0.13
57	CO6	Main member	-71.54	-0.01	-11.64	-9.06	0.03
	CO6	Connected member	-6.28	0	-0.94	-0.98	0.02
	CO6	Connected member	3.35	0	0	0	0.01
	CO6	Connected member	-71.54	0.01	11.64	-9.06	0.03
	CO6	Connected member	-6.28	0	0.94	-0.98	0.02
57	LC7	Main member	6.57	-0.04	2.61	2.49	0.15
	LC7	Connected member	21.6	-0.03	0.04	0.13	0.25
	LC7	Connected member	0.02	0.02	0.08	-0.2	0.11
	LC7	Connected member	32.09	0.1	-3.21	3.03	0.3
	LC7	Connected member	-14.02	0.01	0.04	-0.21	0.13
57	CO7	Main member	-76.27	-0.01	-12.62	-9.82	0.03
	CO7	Connected member	-6.69	0	-0.94	-0.98	0.02
	CO7	Connected member	3.35	0	0	0	0.01
	CO7	Connected member	-76.27	0.01	12.62	-9.82	0.03
	CO7	Connected member	-6.69	0	0.94	-0.98	0.02
57	LC8	Main member	7.36	-0.56	0.03	0.07	2.09
	LC8	Connected member	-0.98	-0.06	0	0.02	0.63
	LC8	Connected member	-0.02	0	0	0	-0.01
	LC8	Connected member	7.36	0.56	-0.03	0.07	2.09
	LC8	Connected member	-0.98	0.06	0	0.02	0.63
57	CO8	Main member	-61.4	-0.01	-9.08	-7.05	0.03
	CO8	Connected member	-4.74	0	-0.93	-1	0.02
	CO8	Connected member	3.36	0	0	0	0.01
	CO8	Connected member	-61.4	0.01	9.08	-7.05	0.03
	CO8	Connected member	-4.74	0	0.93	-1	0.02
57	LC9	Main member	45.66	-0.54	3.25	3.23	2.03
	LC9	Connected member	0.97	-0.06	0.02	0.02	0.61
	LC9	Connected member	-0.08	0	0	0	-0.02
	LC9	Connected member	45.66	0.54	-3.25	3.23	2.03
	LC9	Connected member	0.97	0.06	-0.02	0.02	0.61
57	CO9	Main member	-80.3	-0.01	-13.44	-10.48	0.04
	CO9	Connected member	-7.04	0	-0.94	-0.98	0.02
	CO9	Connected member	3.35	0	0	0	0.01
	CO9	Connected member	-80.3	0.01	13.44	-10.48	0.04
	CO9	Connected member	-7.04	0	0.94	-0.98	0.02
57	CO10	Main member	-79.19	-0.01	-13.39	-10.3	0.04
	CO10	Connected member	-5.32	0	-0.91	-0.85	0.02
	CO10	Connected member	3.35	0	0.03	-0.1	0.01
	CO10	Connected member	-77.04	0.01	12.59	-9.95	0.03



::LAV/team::

Page: 108/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO10	Connected member	-8.38	0	0.97	-1.11	0.02
	CO11	Main member	-85.04	-0.01	-14.41	-11.25	0.04
	CO11	Connected member	-7.45	0	-0.94	-0.98	0.02
	CO11	Connected member	3.36	0	0	0	0.01
	CO11	Connected member	-85.04	0.01	14.41	-11.25	0.04
57	CO11	Connected member	-7.45	0	0.94	-0.98	0.02
	CO12	Main member	-83.92	-0.01	-14.37	-11.07	0.04
	CO12	Connected member	-5.73	0	-0.91	-0.85	0.02
	CO12	Connected member	3.36	0	0.03	-0.1	0.01
	CO12	Connected member	-81.77	0.01	13.56	-10.71	0.04
57	CO12	Connected member	-8.79	0	0.97	-1.1	0.02
	LC13	Main member	-10.14	0	-2.31	-1.62	0
	LC13	Connected member	1.27	0	0.03	0.17	0
	LC13	Connected member	0	0	0.04	-0.13	0
	LC13	Connected member	-7.29	0	1.26	-1.16	0
57	LC13	Connected member	-2.8	0	0.04	-0.16	0
	CO13	Main member	-70.16	-0.01	-10.88	-8.47	0.03
	CO13	Connected member	-5.49	0	-0.94	-0.99	0.02
	CO13	Connected member	3.36	0	0	0	0.01
	CO13	Connected member	-70.16	0.01	10.88	-8.47	0.03
57	CO13	Connected member	-5.49	0	0.94	-0.99	0.02
	LC14	Main member	45.98	-0.55	3.4	2.74	2.07
	LC14	Connected member	0.97	-0.06	0.02	0.02	0.62
	LC14	Connected member	-0.08	0	0	0	-0.02
	LC14	Connected member	45.98	0.55	-3.4	2.74	2.07
57	LC14	Connected member	0.97	0.06	-0.02	0.02	0.62
	CO14	Main member	-69.04	-0.01	-10.83	-8.29	0.03
	CO14	Connected member	-3.77	0	-0.91	-0.87	0.02
	CO14	Connected member	3.36	0	0.03	-0.1	0.01
	CO14	Connected member	-66.89	0.01	10.03	-7.94	0.03
57	CO14	Connected member	-6.83	0	0.96	-1.12	0.02
	LC15	Main member	78.02	-0.54	6.54	5.18	2.03
	LC15	Connected member	3.71	-0.06	0.03	0.01	0.61
	LC15	Connected member	-0.12	0	0	0	-0.02
	LC15	Connected member	78.02	0.54	-6.54	5.18	2.03
57	LC15	Connected member	3.71	0.06	-0.03	0.01	0.61
	CO15	Main member	-100.22	-0.06	-13.71	-10.96	0.21
	CO15	Connected member	7.09	-0.03	-0.95	-1.02	0.27
	CO15	Connected member	3.38	0.03	0.02	-0.03	0.13
	CO15	Connected member	-79.9	0.1	14.15	-10.99	0.32
57	CO15	Connected member	-21.1	0.01	0.94	-0.96	0.14
	LC16	Main member	84.56	-0.48	6.57	5.28	1.8
	LC16	Connected member	1.82	-0.06	0.04	0.04	0.63
	LC16	Connected member	-0.15	0.02	0	0	0.06
	LC16	Connected member	84.56	0.48	-6.57	5.28	1.8
57	LC16	Connected member	1.82	0.06	-0.04	0.04	0.63
	CO16	Main member	-74.31	-0.05	-11.07	-8.19	0.17
	CO16	Connected member	12.45	-0.03	-0.9	-0.85	0.26
	CO16	Connected member	3.38	0.03	0.07	-0.18	0.12
	CO16	Connected member	-51.26	0.1	10.53	-7.69	0.3
57	CO16	Connected member	-19.73	0.01	0.97	-1.17	0.14
	LC17	Main member	-3.22	-0.04	2.36	1.16	0.16
	LC17	Connected member	9.11	-0.03	-0.1	-0.48	0.26
	LC17	Connected member	0.02	0.02	-0.09	0.3	0.11
	LC17	Connected member	8.42	0.11	0.77	-0.04	0.32
57	LC17	Connected member	-6.31	0.01	-0.1	0.43	0.14
	CO17	Main member	-73.66	-0.48	-13.41	-10.41	1.98
	CO17	Connected member	-7.93	-0.08	-0.94	-0.96	0.71
	CO17	Connected member	3.33	0.03	0	0	0.12
	CO17	Connected member	-73.66	0.48	13.41	-10.41	1.98
57	CO17	Connected member	-7.93	0.08	0.94	-0.96	0.71
	LC18	Main member	-13.24	-0.06	-0.06	0.32	0.19
	LC18	Connected member	27.9	-0.03	0.13	0.54	0.27
	LC18	Connected member	0.02	0.02	0.19	-0.52	0.11
	LC18	Connected member	22.97	0.09	-3.12	1.99	0.29
57	LC18	Connected member	-23.31	0.01	0.13	-0.6	0.13
	CO18	Main member	-39.01	-0.47	-10.49	-7.49	1.89
	CO18	Connected member	-6.19	-0.07	-0.92	-0.96	0.65
	CO18	Connected member	3.29	0.02	0	0	0.08
	CO18	Connected member	-39.01	0.47	10.49	-7.49	1.89
57	CO18	Connected member	-6.19	0.07	0.92	-0.96	0.65
	CO19	Main member	-38.74	-0.48	-10.35	-7.94	1.93
	CO19	Connected member	-6.19	-0.07	-0.92	-0.96	0.66
	CO19	Connected member	3.28	0.02	0	0	0.08
	CO19	Connected member	-38.74	0.48	10.35	-7.94	1.93
57	CO19	Connected member	-6.19	0.07	0.92	-0.96	0.66
	CO20	Main member	-9.75	-0.48	-7.51	-5.7	1.87
	CO20	Connected member	-3.75	-0.06	-0.91	-0.97	0.62
	CO20	Connected member	3.26	0.01	0	0	0.04
	CO20	Connected member	-9.75	0.48	7.51	-5.7	1.87
57	CO20	Connected member	-3.75	0.06	0.91	-0.97	0.62
	CO21	Main member	-3.86	-0.43	-7.48	-5.61	1.64
	CO21	Connected member	-5.44	-0.06	-0.91	-0.94	0.63
	CO21	Connected member	3.22	0.03	0	0	0.12
	CO21	Connected member	-3.86	0.43	7.48	-5.61	1.64
57	CO21	Connected member	-5.44	0.06	0.91	-0.94	0.63
	CO22	Main member	-83.19	-0.05	-11.3	-9.42	0.18
	CO22	Connected member	1.21	-0.03	-1.03	-1.41	0.26
	CO22	Connected member	3.38	0.03	-0.08	0.28	0.12
	CO22	Connected member	-72.64	0.11	14.15	-10.51	0.32
57	CO22	Connected member	-12.77	0.01	0.85	-0.59	0.15
	CO23	Main member	-92.24	-0.06	-13.51	-10.2	0.2
	CO23	Connected member	18.16	-0.04	-0.81	-0.46	0.27
	CO23	Connected member	3.38	0.03	0.17	-0.48	0.12



::LAV/team::

Page: 109/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO23	Connected member	-59.52	0.1	10.61	-8.64	0.3
	CO23	Connected member	-28.1	0.01	1.06	-1.53	0.14
	CO24	Main member	-99.1	-0.06	-13.66	-10.79	0.21
57	CO24	Connected member	8.81	-0.03	-0.92	-0.9	0.27
	CO24	Connected member	3.38	0.03	0.05	-0.13	0.13
	CO24	Connected member	-76.64	0.1	13.3	-10.46	0.32
57	CO24	Connected member	-22.44	0.01	0.97	-1.09	0.14
	CO25	Main member	-73.19	-0.05	-11.03	-8.02	0.17
	CO25	Connected member	14.16	-0.03	-0.87	-0.73	0.26
57	CO25	Connected member	3.38	0.03	0.1	-0.28	0.12
	CO25	Connected member	-48	0.1	9.68	-7.16	0.3
	CO25	Connected member	-21.07	0.01	1	-1.3	0.14
57	CO26	Main member	-72.54	-0.48	-13.37	-10.23	1.98
	CO26	Connected member	-6.21	-0.08	-0.91	-0.84	0.71
	CO26	Connected member	3.33	0.03	0.03	-0.1	0.11
57	CO26	Connected member	-70.39	0.48	12.56	-9.88	1.98
	CO26	Connected member	-9.27	0.08	0.96	-1.09	0.7
	CO27	Main member	-37.89	-0.47	-10.44	-7.32	1.89
57	CO27	Connected member	-4.47	-0.07	-0.89	-0.83	0.65
	CO27	Connected member	3.29	0.02	0.03	-0.1	0.07
	CO27	Connected member	-35.75	0.47	9.64	-6.97	1.89
57	CO27	Connected member	-7.53	0.07	0.95	-1.09	0.65
	CO28	Main member	-37.62	-0.48	-10.3	-7.76	1.92
	CO28	Connected member	-4.48	-0.07	-0.89	-0.83	0.66
57	CO28	Connected member	3.28	0.02	0.03	-0.1	0.08
	CO28	Connected member	-35.47	0.48	9.5	-7.41	1.92
	CO28	Connected member	-7.53	0.07	0.95	-1.08	0.66
57	CO29	Main member	-8.64	-0.48	-7.46	-5.53	1.87
	CO29	Connected member	-2.03	-0.06	-0.88	-0.84	0.62
	CO29	Connected member	3.26	0.01	0.03	-0.1	0.03
57	CO29	Connected member	-6.5	0.48	6.67	-5.18	1.87
	CO29	Connected member	-5.08	0.06	0.94	-1.09	0.61
	CO30	Main member	-2.74	-0.43	-7.43	-5.43	1.64
57	CO30	Connected member	-3.72	-0.06	-0.88	-0.82	0.63
	CO30	Connected member	3.22	0.03	0.03	-0.1	0.12
	CO30	Connected member	-0.6	0.43	6.64	-5.09	1.64
57	CO30	Connected member	-6.78	0.06	0.93	-1.07	0.63
	CO31	Main member	-82.07	-0.05	-11.25	-9.24	0.18
	CO31	Connected member	2.93	-0.03	-1	-1.29	0.26
57	CO31	Connected member	3.37	0.03	-0.05	0.18	0.12
	CO31	Connected member	-69.38	0.11	13.3	-9.98	0.32
	CO31	Connected member	-14.11	0.01	0.88	-0.72	0.15
57	CO32	Main member	-91.12	-0.06	-13.46	-10.02	0.2
	CO32	Connected member	19.88	-0.04	-0.78	-0.34	0.27
	CO32	Connected member	3.38	0.03	0.21	-0.58	0.12
57	CO32	Connected member	-56.26	0.1	9.76	-8.12	0.3
	CO32	Connected member	-29.44	0.01	1.08	-1.66	0.14
	CO33	Main member	-104.95	-0.06	-14.68	-11.73	0.21
57	CO33	Connected member	6.68	-0.03	-0.95	-1.02	0.27
	CO33	Connected member	3.38	0.03	0.02	-0.03	0.13
	CO33	Connected member	-84.63	0.1	15.12	-11.76	0.32
57	CO33	Connected member	-21.51	0.01	0.94	-0.96	0.15
	CO34	Main member	-79.04	-0.05	-12.05	-8.96	0.17
	CO34	Connected member	12.04	-0.03	-0.9	-0.85	0.26
57	CO34	Connected member	3.38	0.03	0.07	-0.18	0.12
	CO34	Connected member	-55.98	0.1	11.5	-8.46	0.31
	CO34	Connected member	-20.14	0.01	0.98	-1.17	0.14
57	CO35	Main member	-78.39	-0.47	-14.39	-11.17	1.99
	CO35	Connected member	-8.33	-0.08	-0.94	-0.96	0.72
	CO35	Connected member	3.33	0.03	0	0	0.12
57	CO35	Connected member	-78.39	0.47	14.39	-11.17	1.99
	CO35	Connected member	-8.33	0.08	0.94	-0.96	0.72
	CO36	Main member	-43.74	-0.46	-11.46	-8.26	1.9
57	CO36	Connected member	-6.6	-0.07	-0.92	-0.96	0.66
	CO36	Connected member	3.29	0.02	0	0	0.08
	CO36	Connected member	-43.74	0.46	11.46	-8.26	1.9
57	CO36	Connected member	-6.6	0.07	0.92	-0.96	0.66
	CO37	Main member	-43.47	-0.48	-11.32	-8.7	1.93
	CO37	Connected member	-6.6	-0.07	-0.92	-0.96	0.67
57	CO37	Connected member	3.28	0.03	0	0	0.09
	CO37	Connected member	-43.47	0.48	11.32	-8.7	1.93
	CO37	Connected member	-6.6	0.07	0.92	-0.96	0.67
57	CO38	Main member	-14.48	-0.48	-8.48	-6.46	1.88
	CO38	Connected member	-4.15	-0.06	-0.91	-0.96	0.62
	CO38	Connected member	3.26	0.02	0	0	0.04
57	CO38	Connected member	-14.48	0.48	8.48	-6.46	1.88
	CO38	Connected member	-4.15	0.06	0.91	-0.96	0.62
	CO39	Main member	-8.59	-0.43	-8.45	-6.37	1.65
57	CO39	Connected member	-5.85	-0.07	-0.91	-0.94	0.64
	CO39	Connected member	3.22	0.03	0	0	0.13
	CO39	Connected member	-8.59	0.43	8.45	-6.37	1.65
57	CO39	Connected member	-5.85	0.07	0.91	-0.94	0.64
	CO40	Main member	-87.93	-0.05	-12.27	-10.18	0.18
	CO40	Connected member	0.81	-0.03	-1.03	-1.41	0.26
57	CO40	Connected member	3.38	0.03	-0.08	0.28	0.12
	CO40	Connected member	-77.37	0.11	15.12	-11.28	0.32
	CO40	Connected member	-13.18	0.01	0.85	-0.59	0.15
57	CO41	Main member	-96.98	-0.06	-14.48	-10.97	0.2
	CO41	Connected member	17.76	-0.04	-0.81	-0.46	0.27
	CO41	Connected member	3.38	0.03	0.17	-0.48	0.12
57	CO41	Connected member	-64.25	0.1	11.58	-9.41	0.3
	CO41	Connected member	-28.51	0.01	1.06	-1.53	0.14
	CO42	Main member	-103.83	-0.06	-14.63	-11.56	0.21
	CO42	Connected member	8.4	-0.04	-0.92	-0.89	0.27



::LAV/team::

Page: 110/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO42	Connected member	3.38	0.03	0.05	-0.13	0.13
	CO42	Connected member	-81.37	0.1	14.27	-11.23	0.32
	CO42	Connected member	-22.85	0.01	0.97	-1.09	0.14
	CO43	Main member	-77.93	-0.05	-12	-8.78	0.17
57	CO43	Connected member	13.76	-0.03	-0.87	-0.72	0.26
	CO43	Connected member	3.38	0.03	0.1	-0.28	0.12
	CO43	Connected member	-52.72	0.1	10.65	-7.93	0.3
	CO43	Connected member	-21.48	0.01	1	-1.3	0.14
57	CO44	Main member	-77.27	-0.47	-14.34	-10.99	1.99
	CO44	Connected member	-6.61	-0.08	-0.91	-0.83	0.72
	CO44	Connected member	3.33	0.03	0.03	-0.1	0.12
	CO44	Connected member	-75.12	0.47	13.54	-10.64	1.99
57	CO44	Connected member	-9.68	0.08	0.96	-1.09	0.71
	CO45	Main member	-42.62	-0.46	-11.41	-8.08	1.9
	CO45	Connected member	-4.88	-0.07	-0.9	-0.83	0.66
	CO45	Connected member	3.29	0.02	0.03	-0.1	0.08
57	CO45	Connected member	-40.48	0.47	10.61	-7.73	1.9
	CO45	Connected member	-7.94	0.07	0.95	-1.08	0.65
	CO46	Main member	-42.35	-0.48	-11.27	-8.52	1.93
	CO46	Connected member	-4.88	-0.07	-0.89	-0.83	0.67
57	CO46	Connected member	3.28	0.03	0.03	-0.1	0.08
	CO46	Connected member	-40.2	0.48	10.47	-8.17	1.93
	CO46	Connected member	-7.94	0.07	0.95	-1.08	0.66
	CO47	Main member	-13.36	-0.48	-8.43	-6.28	1.87
57	CO47	Connected member	-2.44	-0.06	-0.88	-0.84	0.62
	CO47	Connected member	3.26	0.02	0.03	-0.1	0.04
	CO47	Connected member	-11.22	0.48	7.64	-5.94	1.87
	CO47	Connected member	-5.49	0.06	0.94	-1.09	0.62
57	CO48	Main member	-7.47	-0.43	-8.4	-6.19	1.64
	CO48	Connected member	-4.13	-0.07	-0.88	-0.81	0.64
	CO48	Connected member	3.22	0.03	0.03	-0.1	0.13
	CO48	Connected member	-5.33	0.43	7.61	-5.84	1.64
57	CO48	Connected member	-7.19	0.06	0.94	-1.06	0.64
	CO49	Main member	-86.81	-0.05	-12.22	-10.01	0.18
	CO49	Connected member	2.53	-0.03	-1	-1.28	0.26
	CO49	Connected member	3.38	0.03	-0.05	0.18	0.12
57	CO49	Connected member	-74.11	0.11	14.27	-10.75	0.32
	CO49	Connected member	-14.52	0.01	0.88	-0.72	0.15
	CO50	Main member	-95.86	-0.06	-14.43	-10.79	0.2
	CO50	Connected member	19.47	-0.04	-0.78	-0.33	0.27
57	CO50	Connected member	3.38	0.03	0.21	-0.58	0.12
	CO50	Connected member	-60.99	0.1	10.73	-8.88	0.3
	CO50	Connected member	-29.85	0.01	1.08	-1.66	0.14
	CO51	Main member	-90.06	-0.06	-11.14	-8.95	0.2
57	CO51	Connected member	8.63	-0.03	-0.95	-1.04	0.27
	CO51	Connected member	3.39	0.03	0.02	-0.03	0.12
	CO51	Connected member	-69.76	0.1	11.58	-8.98	0.32
	CO51	Connected member	-19.54	0.01	0.94	-0.98	0.14
57	CO52	Main member	-64.16	-0.04	-8.51	-6.19	0.16
	CO52	Connected member	13.98	-0.03	-0.89	-0.87	0.25
	CO52	Connected member	3.38	0.03	0.07	-0.18	0.11
	CO52	Connected member	-41.12	0.1	7.97	-5.69	0.3
57	CO52	Connected member	-18.17	0.01	0.97	-1.18	0.13
	CO53	Main member	-63.51	-0.48	-10.85	-8.4	1.98
	CO53	Connected member	-6.38	-0.08	-0.93	-0.98	0.69
	CO53	Connected member	3.34	0.03	0	0	0.1
57	CO53	Connected member	-63.51	0.48	10.85	-8.4	1.98
	CO53	Connected member	-6.38	0.08	0.93	-0.98	0.69
	CO54	Main member	-28.87	-0.47	-7.93	-5.5	1.89
	CO54	Connected member	-4.65	-0.07	-0.92	-0.97	0.64
57	CO54	Connected member	3.29	0.02	0	0	0.06
	CO54	Connected member	-28.87	0.47	7.93	-5.5	1.89
	CO54	Connected member	-4.65	0.07	0.92	-0.97	0.64
	CO55	Main member	-28.6	-0.49	-7.79	-5.94	1.92
57	CO55	Connected member	-4.65	-0.07	-0.92	-0.97	0.65
	CO55	Connected member	3.29	0.02	0	0	0.06
	CO55	Connected member	-28.6	0.49	7.79	-5.94	1.92
	CO55	Connected member	-4.65	0.07	0.92	-0.97	0.65
57	CO56	Main member	0.38	-0.48	-4.96	-3.72	1.87
	CO56	Connected member	-2.2	-0.06	-0.91	-0.98	0.6
	CO56	Connected member	3.26	0.01	0	0	0.02
	CO56	Connected member	0.38	0.48	4.96	-3.72	1.87
57	CO56	Connected member	-2.2	0.06	0.91	-0.98	0.6
	CO57	Main member	6.27	-0.43	-4.93	-3.63	1.64
	CO57	Connected member	-3.89	-0.06	-0.91	-0.95	0.62
	CO57	Connected member	3.23	0.03	0	0	0.11
57	CO57	Connected member	6.27	0.43	4.93	-3.63	1.64
	CO57	Connected member	-3.89	0.06	0.91	-0.95	0.62
	CO58	Main member	-73.04	-0.05	-8.73	-7.41	0.18
	CO58	Connected member	2.75	-0.03	-1.03	-1.43	0.26
57	CO58	Connected member	3.38	0.03	-0.08	0.27	0.12
	CO58	Connected member	-62.5	0.11	11.58	-8.5	0.32
	CO58	Connected member	-11.22	0.01	0.85	-0.61	0.14
	CO59	Main member	-82.09	-0.06	-10.94	-8.18	0.2
57	CO59	Connected member	19.69	-0.04	-0.81	-0.48	0.27
	CO59	Connected member	3.39	0.03	0.17	-0.48	0.12
	CO59	Connected member	-49.38	0.09	8.05	-6.64	0.3
	CO59	Connected member	-26.54	0.01	1.05	-1.54	0.13
57	CO60	Main member	-88.94	-0.06	-11.09	-8.77	0.21
	CO60	Connected member	10.34	-0.03	-0.92	-0.91	0.27
	CO60	Connected member	3.39	0.03	0.05	-0.13	0.12
	CO60	Connected member	-66.5	0.1	10.73	-8.45	0.31
57	CO60	Connected member	-20.88	0.01	0.97	-1.1	0.14
	CO61	Main member	-63.04	-0.05	-8.46	-6.01	0.17



::LAV/team::

Page: 111/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO61	Connected member	15.7	-0.03	-0.86	-0.74	0.26
	CO61	Connected member	3.38	0.03	0.1	-0.28	0.11
	CO61	Connected member	-37.86	0.1	7.12	-5.17	0.3
	CO61	Connected member	-19.51	0.01	1	-1.31	0.13
57	CO62	Main member	-62.4	-0.48	-10.8	-8.22	1.97
	CO62	Connected member	-4.66	-0.08	-0.91	-0.85	0.69
	CO62	Connected member	3.34	0.03	0.03	-0.1	0.09
	CO62	Connected member	-60.25	0.48	10	-7.87	1.97
57	CO62	Connected member	-7.72	0.08	0.96	-1.1	0.69
	CO63	Main member	-27.76	-0.47	-7.88	-5.32	1.89
	CO63	Connected member	-2.93	-0.07	-0.89	-0.85	0.63
	CO63	Connected member	3.29	0.02	0.03	-0.1	0.05
57	CO63	Connected member	-25.61	0.47	7.08	-4.97	1.88
	CO63	Connected member	-5.98	0.07	0.95	-1.1	0.63
	CO64	Main member	-27.48	-0.49	-7.74	-5.76	1.92
	CO64	Connected member	-2.93	-0.07	-0.89	-0.85	0.64
57	CO64	Connected member	3.29	0.02	0.03	-0.1	0.06
	CO64	Connected member	-25.34	0.49	6.94	-5.42	1.92
	CO64	Connected member	-5.99	0.07	0.95	-1.1	0.64
	CO65	Main member	1.49	-0.48	-4.91	-3.54	1.86
57	CO65	Connected member	-0.48	-0.06	-0.88	-0.86	0.6
	CO65	Connected member	3.26	0.01	0.03	-0.1	0.02
	CO65	Connected member	3.63	0.48	4.12	-3.2	1.86
	CO65	Connected member	-3.54	0.06	0.94	-1.11	0.59
57	CO66	Main member	7.39	-0.43	-4.87	-3.45	1.64
	CO66	Connected member	-2.18	-0.06	-0.88	-0.83	0.62
	CO66	Connected member	3.23	0.03	0.03	-0.1	0.1
	CO66	Connected member	9.52	0.43	4.08	-3.11	1.64
57	CO66	Connected member	-5.23	0.06	0.93	-1.08	0.62
	CO67	Main member	-71.92	-0.05	-8.69	-7.23	0.18
	CO67	Connected member	4.47	-0.03	-1	-1.3	0.26
	CO67	Connected member	3.38	0.03	-0.05	0.18	0.12
57	CO67	Connected member	-59.24	0.1	10.73	-7.97	0.32
	CO67	Connected member	-12.55	0.01	0.88	-0.73	0.14
	CO68	Main member	-80.97	-0.06	-10.89	-8.01	0.2
	CO68	Connected member	21.41	-0.04	-0.78	-0.35	0.27
57	CO68	Connected member	3.39	0.03	0.21	-0.58	0.12
	CO68	Connected member	-46.12	0.09	7.2	-6.11	0.3
	CO68	Connected member	-27.88	0.01	1.08	-1.67	0.13
	CO69	Main member	-91.45	-0.06	-11.91	-9.54	0.21
57	CO69	Connected member	7.84	-0.03	-0.95	-1.03	0.27
	CO69	Connected member	3.38	0.03	0.02	-0.03	0.12
	CO69	Connected member	-71.14	0.1	12.35	-9.57	0.32
	CO69	Connected member	-20.33	0.01	0.94	-0.97	0.14
57	CO70	Main member	-65.54	-0.05	-9.28	-6.78	0.17
	CO70	Connected member	13.2	-0.03	-0.89	-0.86	0.26
	CO70	Connected member	3.37	0.03	0.07	-0.18	0.11
	CO70	Connected member	-42.5	0.1	8.73	-6.28	0.3
57	CO70	Connected member	-18.97	0.01	0.97	-1.18	0.13
	CO71	Main member	-64.89	-0.48	-11.62	-8.99	1.98
	CO71	Connected member	-7.17	-0.08	-0.93	-0.97	0.7
	CO71	Connected member	3.33	0.03	0	0	0.1
57	CO71	Connected member	-64.89	0.48	11.62	-8.99	1.98
	CO71	Connected member	-7.17	0.08	0.93	-0.97	0.7
	CO72	Main member	-30.25	-0.47	-8.69	-6.09	1.89
	CO72	Connected member	-5.44	-0.07	-0.92	-0.96	0.64
57	CO72	Connected member	3.28	0.02	0	0	0.06
	CO72	Connected member	-30.25	0.47	8.69	-6.09	1.89
	CO72	Connected member	-5.44	0.07	0.92	-0.96	0.64
	CO73	Main member	-29.98	-0.48	-8.55	-6.53	1.92
57	CO73	Connected member	-5.44	-0.07	-0.92	-0.96	0.65
	CO73	Connected member	3.28	0.02	0	0	0.07
	CO73	Connected member	-29.98	0.48	8.55	-6.53	1.92
	CO73	Connected member	-5.44	0.07	0.92	-0.96	0.65
57	CO74	Main member	-1	-0.48	-5.72	-4.3	1.86
	CO74	Connected member	-2.99	-0.06	-0.91	-0.97	0.6
	CO74	Connected member	3.25	0.01	0	0	0.03
	CO74	Connected member	-1	0.48	5.72	-4.3	1.86
57	CO74	Connected member	-2.99	0.06	0.91	-0.97	0.6
	CO75	Main member	4.89	-0.43	-5.69	-4.21	1.64
	CO75	Connected member	-4.68	-0.06	-0.9	-0.94	0.62
	CO75	Connected member	3.22	0.03	0	0	0.11
57	CO75	Connected member	4.89	0.43	5.69	-4.21	1.64
	CO75	Connected member	-4.68	0.06	0.9	-0.94	0.62
	CO76	Main member	-74.43	-0.05	-9.5	-8	0.18
	CO76	Connected member	1.97	-0.03	-1.03	-1.42	0.26
57	CO76	Connected member	3.37	0.03	-0.08	0.27	0.12
	CO76	Connected member	-63.88	0.11	12.35	-9.09	0.32
	CO76	Connected member	-12.01	0.01	0.85	-0.6	0.14
	CO77	Main member	-83.47	-0.06	-11.71	-8.78	0.2
57	CO77	Connected member	18.91	-0.04	-0.81	-0.47	0.27
	CO77	Connected member	3.38	0.03	0.17	-0.48	0.12
	CO77	Connected member	-50.76	0.1	8.82	-7.23	0.3
	CO77	Connected member	-27.34	0.01	1.05	-1.54	0.13
57	CO78	Main member	-96.18	-0.06	-12.88	-10.31	0.21
	CO78	Connected member	7.43	-0.03	-0.95	-1.03	0.27
	CO78	Connected member	3.38	0.03	0.02	-0.03	0.12
	CO78	Connected member	-75.87	0.1	13.32	-10.34	0.32
57	CO78	Connected member	-20.74	0.01	0.94	-0.97	0.14
	CO79	Main member	-70.28	-0.05	-10.25	-7.54	0.17
	CO79	Connected member	12.79	-0.03	-0.9	-0.85	0.26
	CO79	Connected member	3.38	0.03	0.07	-0.18	0.12
57	CO79	Connected member	-47.23	0.1	9.7	-7.04	0.3
	CO79	Connected member	-19.38	0.01	0.97	-1.17	0.14



::LAV/team::

Page: 112/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO80	Main member	-69.62	-0.48	-12.59	-9.75	1.98
	CO80	Connected member	-7.58	-0.08	-0.93	-0.97	0.7
	CO80	Connected member	3.33	0.03	0	0	0.11
	CO80	Connected member	-69.62	0.48	12.59	-9.75	1.98
	CO80	Connected member	-7.58	0.08	0.93	-0.97	0.7
57	CO81	Main member	-34.98	-0.47	-9.66	-6.85	1.89
	CO81	Connected member	-5.84	-0.07	-0.92	-0.96	0.65
	CO81	Connected member	3.28	0.02	0	0	0.07
	CO81	Connected member	-34.98	0.47	9.66	-6.85	1.89
	CO81	Connected member	-5.84	0.07	0.92	-0.96	0.65
57	CO82	Main member	-34.71	-0.48	-9.52	-7.29	1.92
	CO82	Connected member	-5.85	-0.07	-0.92	-0.96	0.66
	CO82	Connected member	3.28	0.02	0	0	0.07
	CO82	Connected member	-34.71	0.48	9.52	-7.29	1.92
	CO82	Connected member	-5.85	0.07	0.92	-0.96	0.66
57	CO83	Main member	-5.73	-0.48	-6.69	-5.06	1.87
	CO83	Connected member	-3.4	-0.06	-0.91	-0.97	0.61
	CO83	Connected member	3.26	0.01	0	0	0.03
	CO83	Connected member	-5.73	0.48	6.69	-5.06	1.87
	CO83	Connected member	-3.4	0.06	0.91	-0.97	0.61
57	CO84	Main member	0.16	-0.43	-6.66	-4.97	1.64
	CO84	Connected member	-5.09	-0.06	-0.91	-0.94	0.63
	CO84	Connected member	3.22	0.03	0	0	0.12
	CO84	Connected member	0.16	0.43	6.66	-4.97	1.64
	CO84	Connected member	-5.09	0.06	0.91	-0.94	0.63
57	CO85	Main member	-79.16	-0.05	-10.47	-8.76	0.18
	CO85	Connected member	1.56	-0.03	-1.03	-1.41	0.26
	CO85	Connected member	3.37	0.03	-0.08	0.28	0.12
	CO85	Connected member	-68.61	0.11	13.32	-9.86	0.32
	CO85	Connected member	-12.42	0.01	0.85	-0.6	0.15
57	CO86	Main member	-88.21	-0.06	-12.68	-9.54	0.2
	CO86	Connected member	18.5	-0.04	-0.81	-0.47	0.27
	CO86	Connected member	3.38	0.03	0.17	-0.48	0.12
	CO86	Connected member	-55.49	0.1	9.79	-7.99	0.3
	CO86	Connected member	-27.75	0.01	1.05	-1.53	0.14
57	CO87	Main member	-81.29	-0.06	-9.35	-7.53	0.2
	CO87	Connected member	9.38	-0.03	-0.94	-1.04	0.27
	CO87	Connected member	3.38	0.03	0.02	-0.03	0.12
	CO87	Connected member	-61.01	0.1	9.78	-7.56	0.31
	CO87	Connected member	-18.78	0.01	0.94	-0.98	0.14
57	CO88	Main member	-55.4	-0.04	-6.72	-4.78	0.16
	CO88	Connected member	14.73	-0.03	-0.89	-0.87	0.25
	CO88	Connected member	3.38	0.03	0.07	-0.18	0.11
	CO88	Connected member	-32.37	0.1	6.17	-4.28	0.3
	CO88	Connected member	-17.41	0.01	0.97	-1.19	0.13
57	CO89	Main member	-54.75	-0.49	-9.05	-6.98	1.97
	CO89	Connected member	-5.62	-0.07	-0.93	-0.98	0.68
	CO89	Connected member	3.33	0.03	0	0	0.08
	CO89	Connected member	-54.75	0.49	9.05	-6.98	1.97
	CO89	Connected member	-5.62	0.07	0.93	-0.98	0.68
57	CO90	Main member	-20.12	-0.48	-6.14	-4.1	1.88
	CO90	Connected member	-3.89	-0.07	-0.92	-0.98	0.62
	CO90	Connected member	3.29	0.02	0	0	0.04
	CO90	Connected member	-20.12	0.48	6.14	-4.1	1.88
	CO90	Connected member	-3.89	0.07	0.92	-0.98	0.62
57	CO91	Main member	-19.84	-0.49	-6	-4.54	1.91
	CO91	Connected member	-3.89	-0.07	-0.92	-0.98	0.63
	CO91	Connected member	3.28	0.02	0	0	0.05
	CO91	Connected member	-19.84	0.49	6	-4.54	1.91
	CO91	Connected member	-3.89	0.07	0.92	-0.98	0.63
57	CO92	Main member	9.13	-0.49	-3.17	-2.32	1.86
	CO92	Connected member	-1.44	-0.06	-0.91	-0.98	0.59
	CO92	Connected member	3.26	0.01	0	0	0.01
	CO92	Connected member	9.13	0.49	3.17	-2.32	1.86
	CO92	Connected member	-1.44	0.06	0.91	-0.98	0.59
57	CO93	Main member	15.02	-0.44	-3.14	-2.23	1.63
	CO93	Connected member	-3.14	-0.06	-0.9	-0.96	0.61
	CO93	Connected member	3.22	0.03	0	0	0.1
	CO93	Connected member	15.02	0.44	3.14	-2.23	1.63
	CO93	Connected member	-3.14	0.06	0.9	-0.96	0.61
57	CO94	Main member	-64.28	-0.05	-6.94	-5.99	0.17
	CO94	Connected member	3.5	-0.03	-1.03	-1.43	0.26
	CO94	Connected member	3.38	0.03	-0.08	0.27	0.12
	CO94	Connected member	-53.75	0.1	9.78	-7.09	0.32
	CO94	Connected member	-10.45	0.01	0.85	-0.61	0.14
57	CO95	Main member	-73.32	-0.06	-9.14	-6.77	0.2
	CO95	Connected member	20.44	-0.04	-0.81	-0.49	0.27
	CO95	Connected member	3.38	0.03	0.17	-0.48	0.12
	CO95	Connected member	-40.63	0.09	6.26	-5.23	0.3
	CO95	Connected member	-25.78	0.01	1.05	-1.55	0.13
57	CO96	Main member	-65.43	-0.01	-9.91	-7.7	0.03
	CO96	Connected member	-5.08	0	-0.94	-0.99	0.02
	CO96	Connected member	3.36	0	0	0	0.01
	CO96	Connected member	-65.43	0.01	9.91	-7.7	0.03
	CO96	Connected member	-5.08	0	0.94	-0.99	0.02
57	CO97	Main member	-64.31	-0.01	-9.86	-7.52	0.03
	CO97	Connected member	-3.36	0	-0.91	-0.87	0.02
	CO97	Connected member	3.36	0	0.03	-0.1	0.01
	CO97	Connected member	-62.16	0.01	9.06	-7.17	0.03
	CO97	Connected member	-6.42	0	0.96	-1.12	0.02
57	CO98	Main member	-85.33	-0.06	-10.17	-8.18	0.2
	CO98	Connected member	9.03	-0.03	-0.95	-1.04	0.27
	CO98	Connected member	3.39	0.03	0.02	-0.03	0.12
	CO98	Connected member	-65.03	0.1	10.61	-8.21	0.31



::LAV/team::

Page: 113/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO98	Connected member	-19.13	0.01	0.94	-0.98	0.14
	CO99	Main member	-59.43	-0.04	-7.54	-5.43	0.16
	CO99	Connected member	14.39	-0.03	-0.89	-0.87	0.25
	CO99	Connected member	3.38	0.03	0.07	-0.18	0.11
	CO99	Connected member	-36.4	0.1	7	-4.93	0.3
57	CO99	Connected member	-17.76	0.01	0.97	-1.19	0.13
	CO100	Main member	-58.78	-0.48	-9.88	-7.63	1.97
	CO100	Connected member	-5.97	-0.08	-0.93	-0.98	0.69
	CO100	Connected member	3.34	0.03	0	0	0.09
	CO100	Connected member	-58.78	0.48	9.88	-7.63	1.97
57	CO100	Connected member	-5.97	0.08	0.93	-0.98	0.69
	CO101	Main member	-24.15	-0.47	-6.96	-4.74	1.88
	CO101	Connected member	-4.24	-0.07	-0.92	-0.97	0.63
	CO101	Connected member	3.29	0.02	0	0	0.05
	CO101	Connected member	-24.15	0.47	6.96	-4.74	1.88
57	CO101	Connected member	-4.24	0.07	0.92	-0.97	0.63
	CO102	Main member	-23.87	-0.49	-6.82	-5.18	1.91
	CO102	Connected member	-4.24	-0.07	-0.92	-0.97	0.64
	CO102	Connected member	3.29	0.02	0	0	0.05
	CO102	Connected member	-23.87	0.49	6.82	-5.18	1.91
57	CO102	Connected member	-4.24	0.07	0.92	-0.97	0.64
	CO103	Main member	5.1	-0.49	-3.99	-2.96	1.86
	CO103	Connected member	-1.79	-0.06	-0.91	-0.98	0.59
	CO103	Connected member	3.26	0.01	0	0	0.01
	CO103	Connected member	5.1	0.49	3.99	-2.96	1.86
57	CO103	Connected member	-1.79	0.06	0.91	-0.98	0.59
	CO104	Main member	10.99	-0.43	-3.96	-2.87	1.63
	CO104	Connected member	-3.48	-0.06	-0.9	-0.96	0.61
	CO104	Connected member	3.23	0.03	0	0	0.1
	CO104	Connected member	10.99	0.43	3.96	-2.87	1.63
57	CO104	Connected member	-3.48	0.06	0.9	-0.96	0.61
	CO105	Main member	-68.31	-0.05	-7.77	-6.64	0.18
	CO105	Connected member	3.16	-0.03	-1.03	-1.43	0.26
	CO105	Connected member	3.38	0.03	-0.08	0.27	0.12
	CO105	Connected member	-57.77	0.1	10.61	-7.74	0.32
57	CO105	Connected member	-10.8	0.01	0.85	-0.61	0.14
	CO106	Main member	-77.36	-0.06	-9.97	-7.42	0.2
	CO106	Connected member	20.1	-0.04	-0.81	-0.48	0.27
	CO106	Connected member	3.38	0.03	0.17	-0.48	0.12
	CO106	Connected member	-44.66	0.09	7.08	-5.88	0.3
57	CO106	Connected member	-26.13	0.01	1.05	-1.54	0.13
	CO107	Main member	-84.21	-0.06	-10.12	-8	0.2
	CO107	Connected member	10.75	-0.03	-0.92	-0.92	0.27
	CO107	Connected member	3.38	0.03	0.05	-0.13	0.12
	CO107	Connected member	-61.77	0.1	9.76	-7.68	0.31
57	CO107	Connected member	-20.47	0.01	0.96	-1.11	0.14
	CO108	Main member	-58.31	-0.04	-7.49	-5.25	0.16
	CO108	Connected member	16.1	-0.03	-0.86	-0.74	0.25
	CO108	Connected member	3.38	0.03	0.1	-0.27	0.11
	CO108	Connected member	-33.14	0.1	6.15	-4.41	0.3
57	CO108	Connected member	-19.1	0.01	1	-1.31	0.13
	CO109	Main member	-57.66	-0.48	-9.83	-7.45	1.97
	CO109	Connected member	-4.25	-0.08	-0.9	-0.85	0.68
	CO109	Connected member	3.34	0.03	0.03	-0.1	0.09
	CO109	Connected member	-55.52	0.49	9.03	-7.1	1.97
57	CO109	Connected member	-7.31	0.07	0.96	-1.11	0.68
	CO110	Main member	-23.03	-0.47	-6.91	-4.56	1.88
	CO110	Connected member	-2.52	-0.07	-0.89	-0.85	0.63
	CO110	Connected member	3.29	0.02	0.03	-0.1	0.05
	CO110	Connected member	-20.89	0.48	6.12	-4.22	1.88
57	CO110	Connected member	-5.58	0.06	0.95	-1.1	0.62
	CO111	Main member	-22.75	-0.49	-6.77	-5.01	1.91
	CO111	Connected member	-2.52	-0.07	-0.89	-0.85	0.64
	CO111	Connected member	3.29	0.02	0.03	-0.1	0.05
	CO111	Connected member	-20.61	0.49	5.98	-4.66	1.91
57	CO111	Connected member	-5.58	0.07	0.95	-1.1	0.63
	CO112	Main member	6.22	-0.49	-3.94	-2.79	1.86
	CO112	Connected member	-0.07	-0.06	-0.88	-0.86	0.59
	CO112	Connected member	3.26	0.01	0.03	-0.1	0.01
	CO112	Connected member	8.36	0.49	3.15	-2.44	1.86
57	CO112	Connected member	-3.13	0.06	0.94	-1.11	0.59
	CO113	Main member	12.11	-0.43	-3.91	-2.7	1.63
	CO113	Connected member	-1.77	-0.06	-0.88	-0.83	0.61
	CO113	Connected member	3.23	0.03	0.03	-0.1	0.1
	CO113	Connected member	14.25	0.44	3.12	-2.35	1.63
57	CO113	Connected member	-4.82	0.06	0.93	-1.08	0.61
	CO114	Main member	-67.19	-0.05	-7.72	-6.47	0.18
	CO114	Connected member	4.88	-0.03	-1	-1.3	0.26
	CO114	Connected member	3.38	0.03	-0.05	0.18	0.12
	CO114	Connected member	-54.51	0.1	9.76	-7.21	0.32
57	CO114	Connected member	-12.14	0.01	0.88	-0.74	0.14
	CO115	Main member	-76.24	-0.06	-9.92	-7.24	0.2
	CO115	Connected member	21.81	-0.04	-0.78	-0.36	0.27
	CO115	Connected member	3.38	0.03	0.21	-0.58	0.12
	CO115	Connected member	-41.4	0.09	6.24	-5.35	0.3
57	CO115	Connected member	-27.47	0.01	1.08	-1.67	0.13
	CO116	Main member	-76.56	-0.06	-8.38	-6.77	0.2
	CO116	Connected member	9.78	-0.03	-0.94	-1.05	0.27
	CO116	Connected member	3.38	0.03	0.02	-0.03	0.12
	CO116	Connected member	-56.28	0.1	8.81	-6.8	0.31
57	CO116	Connected member	-18.36	0.01	0.93	-0.98	0.14
	CO117	Main member	-50.66	-0.04	-5.75	-4.02	0.16
	CO117	Connected member	15.14	-0.03	-0.89	-0.87	0.25
		Connected member	3.38	0.03	0.07	-0.18	0.11



::LAV/team::

Page: 114/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO117	Connected member	-27.64	0.1	5.2	-3.53	0.3
	CO117	Connected member	-17	0.01	0.97	-1.19	0.13
	CO118	Main member	-50.02	-0.49	-8.08	-6.22	1.96
	CO118	Connected member	-5.21	-0.07	-0.93	-0.98	0.67
57	CO118	Connected member	3.33	0.02	0	0	0.08
	CO118	Connected member	-50.02	0.49	8.08	-6.22	1.96
	CO118	Connected member	-5.21	0.07	0.93	-0.98	0.67
	CO119	Main member	-15.39	-0.48	-5.17	-3.34	1.88
57	CO119	Connected member	-3.48	-0.06	-0.92	-0.98	0.62
	CO119	Connected member	3.29	0.01	0	0	0.04
	CO119	Connected member	-15.39	0.48	5.17	-3.34	1.88
	CO119	Connected member	-3.48	0.06	0.92	-0.98	0.62
57	CO120	Main member	-15.12	-0.49	-5.03	-3.78	1.91
	CO120	Connected member	-3.48	-0.07	-0.92	-0.98	0.63
	CO120	Connected member	3.28	0.02	0	0	0.04
	CO120	Connected member	-15.12	0.49	5.03	-3.78	1.91
57	CO120	Connected member	-3.48	0.07	0.92	-0.98	0.63
	CO121	Main member	13.85	-0.49	-2.2	-1.57	1.85
	CO121	Connected member	-1.03	-0.06	-0.91	-0.99	0.58
	CO121	Connected member	3.26	0.01	0	0	0
57	CO121	Connected member	13.85	0.49	2.2	-1.57	1.85
	CO121	Connected member	-1.03	0.06	0.91	-0.99	0.58
	CO122	Main member	19.74	-0.44	-2.17	-1.48	1.63
	CO122	Connected member	-2.73	-0.06	-0.9	-0.96	0.6
57	CO122	Connected member	3.22	0.02	0	0	0.09
	CO122	Connected member	19.74	0.44	2.17	-1.48	1.63
	CO122	Connected member	-2.73	0.06	0.9	-0.96	0.6
	CO123	Main member	-59.54	-0.05	-5.97	-5.23	0.17
57	CO123	Connected member	3.91	-0.03	-1.03	-1.43	0.26
	CO123	Connected member	3.38	0.03	-0.08	0.27	0.12
	CO123	Connected member	-49.02	0.1	8.81	-6.32	0.32
	CO123	Connected member	-10.04	0.01	0.85	-0.61	0.14
57	CO124	Main member	-68.59	-0.06	-8.17	-6	0.19
	CO124	Connected member	20.84	-0.04	-0.81	-0.49	0.27
	CO124	Connected member	3.38	0.03	0.17	-0.48	0.12
	CO124	Connected member	-35.9	0.09	5.29	-4.47	0.3
57	CO124	Connected member	-25.36	0.01	1.05	-1.55	0.13
	CO125	Main member	-39.14	-0.01	-4.52	-3.47	0.02
	CO125	Connected member	-2.81	0	-0.93	-1.01	0.02
	CO125	Connected member	3.35	0	0	0	0.01
57	CO125	Connected member	-39.14	0.01	4.52	-3.47	0.02
	CO125	Connected member	-2.81	0	0.93	-1.01	0.02
	CO126	Main member	-36.91	-0.01	-4.42	-3.11	0.02
	CO126	Connected member	0.62	0	-0.87	-0.76	0.02
57	CO126	Connected member	3.35	0	0.07	-0.19	0.01
	CO126	Connected member	-32.62	0.01	2.83	-2.42	0.02
	CO126	Connected member	-5.49	0	0.98	-1.26	0.01
	CO127	Main member	-54.01	-0.01	-8.05	-6.23	0.03
57	CO127	Connected member	-4.77	0	-0.93	-0.99	0.02
	CO127	Connected member	3.35	0	0	0	0.01
	CO127	Connected member	-54.01	0.01	8.05	-6.23	0.03
	CO127	Connected member	-4.77	0	0.93	-0.99	0.02
57	CO128	Main member	-51.78	-0.01	-7.95	-5.87	0.03
	CO128	Connected member	-1.33	0	-0.87	-0.74	0.02
	CO128	Connected member	3.34	0	0.07	-0.2	0.01
	CO128	Connected member	-47.49	0.01	6.36	-5.17	0.02
57	CO128	Connected member	-7.45	0	0.99	-1.25	0.02
	CO129	Main member	-58.75	-0.01	-9.02	-6.99	0.03
	CO129	Connected member	-5.18	0	-0.93	-0.99	0.02
	CO129	Connected member	3.35	0	0	0	0.01
57	CO129	Connected member	-58.75	0.01	9.02	-6.99	0.03
	CO129	Connected member	-5.18	0	0.93	-0.99	0.02
	CO130	Main member	-56.51	-0.01	-8.92	-6.63	0.03
	CO130	Connected member	-1.74	0	-0.88	-0.74	0.02
57	CO130	Connected member	3.35	0	0.07	-0.2	0.01
	CO130	Connected member	-52.22	0.01	7.33	-5.93	0.03
	CO130	Connected member	-7.86	0	0.99	-1.24	0.02
	CO131	Main member	-43.87	-0.01	-5.49	-4.23	0.02
57	CO131	Connected member	-3.22	0	-0.93	-1.01	0.02
	CO131	Connected member	3.35	0	0	0	0.01
	CO131	Connected member	-43.87	0.01	5.49	-4.23	0.02
	CO131	Connected member	-3.22	0	0.93	-1.01	0.02
57	CO132	Main member	-41.64	-0.01	-5.39	-3.87	0.03
	CO132	Connected member	0.21	0	-0.87	-0.76	0.02
	CO132	Connected member	3.35	0	0.07	-0.19	0.01
	CO132	Connected member	-37.35	0.01	3.8	-3.18	0.02
57	CO132	Connected member	-5.9	0	0.98	-1.26	0.01
	CO133	Main member	-73.91	-0.06	-8.32	-6.7	0.2
	CO133	Connected member	9.34	-0.03	-0.94	-1.04	0.27
	CO133	Connected member	3.37	0.03	0.02	-0.03	0.12
57	CO133	Connected member	-53.63	0.1	8.75	-6.73	0.31
	CO133	Connected member	-18.81	0.01	0.93	-0.98	0.14
	CO134	Main member	-48.01	-0.04	-5.69	-3.96	0.16
	CO134	Connected member	14.69	-0.03	-0.89	-0.87	0.25
57	CO134	Connected member	3.37	0.03	0.07	-0.18	0.11
	CO134	Connected member	-24.99	0.1	5.15	-3.47	0.3
	CO134	Connected member	-17.44	0.01	0.97	-1.18	0.13
	CO135	Main member	-47.37	-0.49	-8.03	-6.16	1.96
57	CO135	Connected member	-5.65	-0.07	-0.93	-0.98	0.67
	CO135	Connected member	3.32	0.02	0	0	0.08
	CO135	Connected member	-47.37	0.49	8.03	-6.16	1.96
	CO135	Connected member	-5.65	0.07	0.93	-0.98	0.67
57	CO136	Main member	-12.74	-0.48	-5.11	-3.28	1.87
	CO136	Connected member	-3.92	-0.06	-0.92	-0.97	0.62



::LAV/team::

Page: 115/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO136	Connected member	3.28	0.01	0	0	0.04
	CO136	Connected member	-12.74	0.48	5.11	-3.28	1.87
	CO136	Connected member	-3.92	0.06	0.92	-0.97	0.62
	CO137	Main member	-12.47	-0.49	-4.97	-3.72	1.9
57	CO137	Connected member	-3.92	-0.07	-0.91	-0.97	0.63
	CO137	Connected member	3.27	0.02	0	0	0.04
	CO137	Connected member	-12.47	0.49	4.97	-3.72	1.9
	CO137	Connected member	-3.92	0.07	0.91	-0.97	0.63
57	CO138	Main member	16.5	-0.49	-2.15	-1.51	1.85
	CO138	Connected member	-1.47	-0.06	-0.9	-0.98	0.58
	CO138	Connected member	3.25	0.01	0	0	0
	CO138	Connected member	16.5	0.49	2.15	-1.51	1.85
57	CO138	Connected member	-1.47	0.06	0.9	-0.98	0.58
	CO139	Main member	22.39	-0.44	-2.12	-1.42	1.62
	CO139	Connected member	-3.17	-0.06	-0.9	-0.95	0.61
	CO139	Connected member	3.21	0.03	0	0	0.09
57	CO139	Connected member	22.39	0.44	2.12	-1.42	1.62
	CO139	Connected member	-3.17	0.06	0.9	-0.95	0.61
	CO140	Main member	-56.89	-0.05	-5.92	-5.17	0.17
	CO140	Connected member	3.47	-0.03	-1.02	-1.43	0.26
57	CO140	Connected member	3.37	0.03	-0.08	0.27	0.12
	CO140	Connected member	-46.37	0.1	8.75	-6.26	0.32
	CO140	Connected member	-10.48	0.01	0.85	-0.61	0.14
	CO141	Main member	-65.94	-0.06	-8.12	-5.94	0.19
57	CO141	Connected member	20.4	-0.04	-0.81	-0.48	0.27
	CO141	Connected member	3.37	0.03	0.17	-0.48	0.12
	CO141	Connected member	-33.25	0.09	5.23	-4.41	0.3
	CO141	Connected member	-25.81	0.01	1.05	-1.54	0.13
57	CO142	Main member	-71.67	-0.06	-8.22	-6.35	0.2
	CO142	Connected member	12.77	-0.03	-0.88	-0.79	0.27
	CO142	Connected member	3.37	0.03	0.09	-0.23	0.12
	CO142	Connected member	-47.1	0.1	7.06	-5.68	0.31
57	CO142	Connected member	-21.48	0.01	0.99	-1.23	0.14
	CO143	Main member	-45.77	-0.04	-5.59	-3.61	0.16
	CO143	Connected member	18.12	-0.03	-0.83	-0.62	0.25
	CO143	Connected member	3.36	0.03	0.13	-0.37	0.11
57	CO143	Connected member	-18.48	0.09	3.46	-2.42	0.3
	CO143	Connected member	-20.11	0.01	1.02	-1.43	0.13
	CO144	Main member	-45.14	-0.49	-7.93	-5.8	1.96
	CO144	Connected member	-2.22	-0.07	-0.87	-0.73	0.67
57	CO144	Connected member	3.32	0.02	0.07	-0.2	0.07
	CO144	Connected member	-40.85	0.49	6.33	-5.1	1.95
	CO144	Connected member	-8.33	0.07	0.98	-1.23	0.66
	CO145	Main member	-10.5	-0.48	-5.01	-2.92	1.87
57	CO145	Connected member	-0.49	-0.06	-0.86	-0.73	0.61
	CO145	Connected member	3.27	0.01	0.06	-0.19	0.03
	CO145	Connected member	-6.22	0.48	3.42	-2.23	1.87
	CO145	Connected member	-6.6	0.06	0.97	-1.22	0.61
57	CO146	Main member	-10.23	-0.49	-4.87	-3.37	1.9
	CO146	Connected member	-0.49	-0.07	-0.86	-0.72	0.63
	CO146	Connected member	3.27	0.01	0.06	-0.19	0.04
	CO146	Connected member	-5.95	0.49	3.28	-2.67	1.9
57	CO146	Connected member	-6.6	0.06	0.97	-1.22	0.62
	CO147	Main member	18.74	-0.49	-2.04	-1.16	1.85
	CO147	Connected member	1.96	-0.06	-0.85	-0.74	0.58
	CO147	Connected member	3.24	0	0.06	-0.19	0
57	CO147	Connected member	23.02	0.49	0.47	-0.47	1.85
	CO147	Connected member	-4.15	0.05	0.96	-1.23	0.57
	CO148	Main member	24.63	-0.44	-2.01	-1.07	1.62
	CO148	Connected member	0.26	-0.06	-0.84	-0.71	0.6
57	CO148	Connected member	3.21	0.02	0.06	-0.19	0.09
	CO148	Connected member	28.91	0.44	0.44	-0.38	1.62
	CO148	Connected member	-5.84	0.06	0.95	-1.2	0.6
	CO149	Main member	-54.66	-0.05	-5.82	-4.82	0.17
57	CO149	Connected member	6.9	-0.03	-0.97	-1.18	0.26
	CO149	Connected member	3.36	0.03	-0.02	0.08	0.12
	CO149	Connected member	-39.85	0.1	7.06	-5.21	0.31
	CO149	Connected member	-13.16	0.01	0.9	-0.86	0.14
57	CO150	Main member	-63.7	-0.06	-8.02	-5.59	0.19
	CO150	Connected member	23.83	-0.04	-0.74	-0.23	0.27
	CO150	Connected member	3.37	0.03	0.24	-0.67	0.12
	CO150	Connected member	-26.73	0.09	3.54	-3.36	0.29
57	CO150	Connected member	-28.48	0.01	1.1	-1.79	0.13
	CO151	Main member	-78.64	-0.06	-9.29	-7.47	0.2
	CO151	Connected member	8.93	-0.03	-0.94	-1.04	0.27
	CO151	Connected member	3.37	0.03	0.02	-0.03	0.12
57	CO151	Connected member	-58.36	0.1	9.72	-7.5	0.31
	CO151	Connected member	-19.22	0.01	0.93	-0.97	0.14
	CO152	Main member	-52.75	-0.04	-6.66	-4.72	0.16
	CO152	Connected member	14.29	-0.03	-0.89	-0.87	0.25
57	CO152	Connected member	3.37	0.03	0.07	-0.18	0.11
	CO152	Connected member	-29.72	0.1	6.11	-4.22	0.3
	CO152	Connected member	-17.85	0.01	0.97	-1.18	0.13
	CO153	Main member	-52.1	-0.49	-8.99	-6.92	1.96
57	CO153	Connected member	-6.06	-0.07	-0.93	-0.97	0.68
	CO153	Connected member	3.32	0.03	0	0	0.09
	CO153	Connected member	-52.1	0.49	8.99	-6.92	1.96
57	CO153	Connected member	-6.06	0.07	0.93	-0.97	0.68
	CO154	Main member	-17.47	-0.48	-6.08	-4.03	1.87
	CO154	Connected member	-4.33	-0.06	-0.92	-0.97	0.62
	CO154	Connected member	3.28	0.02	0	0	0.05
57	CO154	Connected member	-17.47	0.48	6.08	-4.03	1.87
	CO154	Connected member	-4.33	0.06	0.92	-0.97	0.62
	CO155	Main member	-17.19	-0.49	-5.94	-4.48	1.91



::LAV/team::

Page: 116/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO155	Connected member	-4.33	-0.07	-0.92	-0.97	0.63
	CO155	Connected member	3.27	0.02	0	0	0.05
	CO155	Connected member	-17.19	0.49	5.94	-4.48	1.91
	CO155	Connected member	-4.33	0.07	0.92	-0.97	0.63
57	CO156	Main member	11.78	-0.49	-3.11	-2.26	1.85
	CO156	Connected member	-1.88	-0.06	-0.91	-0.98	0.59
	CO156	Connected member	3.25	0.01	0	0	0.01
	CO156	Connected member	11.78	0.49	3.11	-2.26	1.85
57	CO156	Connected member	-1.88	0.06	0.91	-0.98	0.59
	CO157	Main member	17.67	-0.44	-3.08	-2.17	1.63
	CO157	Connected member	-3.58	-0.06	-0.9	-0.95	0.61
	CO157	Connected member	3.21	0.03	0	0	0.1
57	CO157	Connected member	17.67	0.44	3.08	-2.17	1.63
	CO157	Connected member	-3.58	0.06	0.9	-0.95	0.61
	CO158	Main member	-61.63	-0.05	-6.88	-5.93	0.17
	CO158	Connected member	3.06	-0.03	-1.02	-1.42	0.26
57	CO158	Connected member	3.37	0.03	-0.08	0.27	0.12
	CO158	Connected member	-51.1	0.1	9.72	-7.02	0.32
	CO158	Connected member	-10.9	0.01	0.85	-0.61	0.14
	CO159	Main member	-70.67	-0.06	-9.09	-6.71	0.2
57	CO159	Connected member	20	-0.04	-0.81	-0.48	0.27
	CO159	Connected member	3.37	0.03	0.17	-0.48	0.12
	CO159	Connected member	-37.98	0.09	6.2	-5.17	0.3
	CO159	Connected member	-26.22	0.01	1.05	-1.54	0.13
57	CO160	Main member	-76.41	-0.06	-9.19	-7.11	0.2
	CO160	Connected member	12.37	-0.03	-0.88	-0.79	0.27
	CO160	Connected member	3.37	0.03	0.09	-0.23	0.12
	CO160	Connected member	-51.83	0.1	8.03	-6.44	0.31
57	CO160	Connected member	-21.9	0.01	0.99	-1.23	0.14
	CO161	Main member	-50.51	-0.04	-6.56	-4.37	0.16
	CO161	Connected member	17.72	-0.03	-0.83	-0.62	0.25
	CO161	Connected member	3.37	0.03	0.13	-0.37	0.11
57	CO161	Connected member	-23.2	0.1	4.43	-3.18	0.3
	CO161	Connected member	-20.52	0.01	1.02	-1.43	0.13
	CO162	Main member	-49.87	-0.49	-8.89	-6.56	1.96
	CO162	Connected member	-2.63	-0.08	-0.87	-0.73	0.68
57	CO162	Connected member	3.32	0.02	0.07	-0.2	0.08
	CO162	Connected member	-45.58	0.49	7.3	-5.87	1.96
	CO162	Connected member	-8.74	0.07	0.98	-1.23	0.67
	CO163	Main member	-15.23	-0.48	-5.98	-3.68	1.87
57	CO163	Connected member	-0.9	-0.07	-0.86	-0.72	0.62
	CO163	Connected member	3.28	0.02	0.06	-0.19	0.04
	CO163	Connected member	-10.95	0.48	4.39	-2.99	1.87
	CO163	Connected member	-7.01	0.06	0.97	-1.22	0.61
57	CO164	Main member	-14.96	-0.49	-5.84	-4.12	1.9
	CO164	Connected member	-0.9	-0.07	-0.86	-0.72	0.63
	CO164	Connected member	3.27	0.02	0.06	-0.19	0.05
	CO164	Connected member	-10.68	0.49	4.25	-3.43	1.9
57	CO164	Connected member	-7.01	0.06	0.97	-1.22	0.62
	CO165	Main member	14.01	-0.49	-3.01	-1.91	1.85
	CO165	Connected member	1.55	-0.06	-0.85	-0.73	0.59
	CO165	Connected member	3.25	0.01	0.06	-0.19	0
57	CO165	Connected member	18.29	0.49	1.43	-1.22	1.85
	CO165	Connected member	-4.56	0.06	0.96	-1.23	0.58
	CO166	Main member	19.9	-0.44	-2.98	-1.82	1.63
	CO166	Connected member	-0.15	-0.06	-0.84	-0.71	0.61
57	CO166	Connected member	3.21	0.03	0.06	-0.19	0.09
	CO166	Connected member	24.18	0.44	1.4	-1.13	1.62
	CO166	Connected member	-6.25	0.06	0.96	-1.2	0.6
	CO167	Main member	-59.39	-0.05	-6.78	-5.58	0.18
57	CO167	Connected member	6.5	-0.03	-0.97	-1.17	0.26
	CO167	Connected member	3.37	0.03	-0.02	0.08	0.12
	CO167	Connected member	-44.57	0.1	8.03	-5.97	0.32
	CO167	Connected member	-13.57	0.01	0.9	-0.86	0.14
57	CO168	Main member	-68.43	-0.06	-8.99	-6.35	0.2
	CO168	Connected member	23.43	-0.04	-0.75	-0.23	0.27
	CO168	Connected member	3.37	0.03	0.24	-0.67	0.12
	CO168	Connected member	-31.46	0.09	4.51	-4.12	0.29
57	CO168	Connected member	-28.89	0.01	1.1	-1.79	0.13
	CO169	Main member	-63.76	-0.06	-5.76	-4.7	0.2
	CO169	Connected member	10.87	-0.03	-0.94	-1.05	0.27
	CO169	Connected member	3.38	0.03	0.02	-0.03	0.12
57	CO169	Connected member	-43.49	0.1	6.19	-4.73	0.31
	CO169	Connected member	-17.25	0.01	0.93	-0.99	0.14
	CO170	Main member	-37.87	-0.04	-3.13	-1.97	0.16
	CO170	Connected member	16.23	-0.03	-0.89	-0.88	0.25
57	CO170	Connected member	3.37	0.02	0.07	-0.18	0.11
	CO170	Connected member	-14.87	0.1	2.59	-1.48	0.29
	CO170	Connected member	-15.88	0.01	0.96	-1.2	0.13
	CO171	Main member	-37.24	-0.49	-5.47	-4.16	1.95
57	CO171	Connected member	-4.11	-0.07	-0.93	-0.99	0.66
	CO171	Connected member	3.33	0.02	0	0	0.06
	CO171	Connected member	-37.24	0.49	5.47	-4.16	1.95
	CO171	Connected member	-4.11	0.07	0.93	-0.99	0.66
57	CO172	Main member	-2.61	-0.48	-2.56	-1.3	1.86
	CO172	Connected member	-2.38	-0.06	-0.91	-0.99	0.6
	CO172	Connected member	3.28	0.01	0	0	0.02
	CO172	Connected member	-2.61	0.48	2.56	-1.3	1.86
57	CO172	Connected member	-2.38	0.06	0.91	-0.99	0.6
	CO173	Main member	-2.34	-0.5	-2.42	-1.74	1.9
	CO173	Connected member	-2.38	-0.06	-0.91	-0.98	0.61
	CO173	Connected member	3.28	0.01	0	0	0.03
	CO173	Connected member	-2.34	0.5	2.42	-1.74	1.9
	CO173	Connected member	-2.38	0.06	0.91	-0.98	0.61



::LAVteam::

Page: 117/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO174	Main member	26.63	-0.49	0.4	0.46	1.84
	CO174	Connected member	0.07	-0.05	-0.9	-0.99	0.56
57	CO174	Connected member	3.25	0	0	0	-0.02
	CO174	Connected member	26.63	0.49	-0.4	0.46	1.84
57	CO174	Connected member	0.07	0.05	0.9	-0.99	0.56
	CO175	Main member	32.52	-0.44	0.43	0.55	1.62
57	CO175	Connected member	-1.62	-0.06	-0.9	-0.97	0.59
	CO175	Connected member	3.22	0.02	0	0	0.08
57	CO175	Connected member	32.52	0.44	-0.43	0.55	1.62
	CO175	Connected member	-1.62	0.06	0.9	-0.97	0.59
57	CO176	Main member	-46.75	-0.05	-3.36	-3.18	0.17
	CO176	Connected member	5.01	-0.03	-1.02	-1.44	0.26
57	CO176	Connected member	3.37	0.03	-0.08	0.27	0.11
	CO176	Connected member	-36.23	0.1	6.19	-4.26	0.31
57	CO176	Connected member	-8.93	0.01	0.84	-0.62	0.14
	CO177	Main member	-55.79	-0.06	-5.55	-3.95	0.19
57	CO177	Connected member	21.93	-0.04	-0.8	-0.5	0.27
	CO177	Connected member	3.37	0.03	0.17	-0.48	0.11
57	CO177	Connected member	-23.12	0.09	2.68	-2.42	0.29
	CO177	Connected member	-24.25	0.01	1.05	-1.55	0.13
57	CO178	Main member	-61.52	-0.06	-5.66	-4.35	0.2
	CO178	Connected member	14.31	-0.03	-0.88	-0.8	0.27
57	CO178	Connected member	3.37	0.03	0.09	-0.23	0.12
	CO178	Connected member	-36.97	0.1	4.5	-3.68	0.31
57	CO178	Connected member	-19.93	0.01	0.98	-1.24	0.14
	CO179	Main member	-35.63	-0.04	-3.03	-1.62	0.16
57	CO179	Connected member	19.66	-0.03	-0.83	-0.63	0.25
	CO179	Connected member	3.37	0.02	0.13	-0.37	0.11
57	CO179	Connected member	-8.35	0.09	0.91	-0.44	0.29
	CO179	Connected member	-18.55	0.01	1.02	-1.44	0.13
57	CO180	Main member	-35	-0.49	-5.36	-3.81	1.95
	CO180	Connected member	-0.67	-0.07	-0.87	-0.74	0.65
57	CO180	Connected member	3.33	0.02	0.07	-0.19	0.05
	CO180	Connected member	-30.71	0.5	3.77	-3.11	1.95
57	CO180	Connected member	-6.79	0.07	0.98	-1.24	0.65
	CO181	Main member	-0.37	-0.48	-2.45	-0.94	1.86
57	CO181	Connected member	1.06	-0.06	-0.86	-0.74	0.6
	CO181	Connected member	3.28	0.01	0.06	-0.19	0.02
57	CO181	Connected member	3.91	0.49	0.87	-0.25	1.86
	CO181	Connected member	-5.05	0.06	0.97	-1.24	0.59
57	CO182	Main member	-0.1	-0.5	-2.31	-1.38	1.89
	CO182	Connected member	1.06	-0.06	-0.86	-0.74	0.61
57	CO182	Connected member	3.27	0.01	0.06	-0.19	0.02
	CO182	Connected member	4.18	0.5	0.73	-0.69	1.89
57	CO182	Connected member	-5.05	0.06	0.97	-1.23	0.6
	CO183	Main member	28.87	-0.5	0.51	0.81	1.84
57	CO183	Connected member	3.5	-0.05	-0.85	-0.75	0.56
	CO183	Connected member	3.25	0	0.06	-0.19	-0.02
57	CO183	Connected member	33.14	0.5	-2.08	1.5	1.84
	CO183	Connected member	-2.6	0.05	0.96	-1.24	0.56
57	CO184	Main member	34.75	-0.44	0.54	0.9	1.62
	CO184	Connected member	1.8	-0.06	-0.84	-0.72	0.59
57	CO184	Connected member	3.21	0.02	0.06	-0.19	0.07
	CO184	Connected member	39.03	0.44	-2.11	1.58	1.62
57	CO184	Connected member	-4.3	0.05	0.95	-1.22	0.58
	CO185	Main member	-44.51	-0.05	-3.26	-2.82	0.17
57	CO185	Connected member	8.44	-0.03	-0.96	-1.19	0.26
	CO185	Connected member	3.37	0.03	-0.02	0.08	0.11
57	CO185	Connected member	-29.71	0.1	4.5	-3.21	0.31
	CO185	Connected member	-11.61	0.01	0.9	-0.87	0.14
57	CO186	Main member	-53.55	-0.06	-5.45	-3.59	0.19
	CO186	Connected member	25.36	-0.04	-0.74	-0.25	0.27
57	CO186	Connected member	3.37	0.03	0.24	-0.67	0.11
	CO186	Connected member	-16.61	0.09	0.99	-1.37	0.29
57	CO186	Connected member	-26.92	0.01	1.1	-1.8	0.13
	CO187	Main member	-59.03	-0.06	-4.79	-3.94	0.2
57	CO187	Connected member	11.28	-0.03	-0.94	-1.06	0.27
	CO187	Connected member	3.37	0.03	0.02	-0.03	0.12
57	CO187	Connected member	-38.77	0.1	5.22	-3.97	0.31
	CO187	Connected member	-16.84	0.01	0.93	-0.99	0.14
57	CO188	Main member	-33.14	-0.04	-2.17	-1.21	0.16
	CO188	Connected member	16.63	-0.03	-0.89	-0.89	0.25
57	CO188	Connected member	3.37	0.02	0.07	-0.18	0.11
	CO188	Connected member	-10.14	0.09	1.62	-0.72	0.29
57	CO188	Connected member	-15.47	0.01	0.96	-1.2	0.13
	CO189	Main member	-32.51	-0.5	-4.5	-3.4	1.95
57	CO189	Connected member	-3.7	-0.07	-0.93	-0.99	0.65
	CO189	Connected member	3.33	0.02	0	0	0.05
57	CO189	Connected member	-32.51	0.5	4.5	-3.4	1.95
	CO189	Connected member	-3.7	0.07	0.93	-0.99	0.65
57	CO190	Main member	2.12	-0.49	-1.59	-0.54	1.86
	CO190	Connected member	-1.97	-0.06	-0.91	-0.99	0.59
57	CO190	Connected member	3.28	0.01	0	0	0.02
	CO190	Connected member	2.12	0.49	1.59	-0.54	1.86
57	CO190	Connected member	-1.97	0.06	0.91	-0.99	0.59
	CO191	Main member	2.39	-0.5	-1.45	-0.98	1.89
57	CO191	Connected member	-1.97	-0.06	-0.91	-0.99	0.6
	CO191	Connected member	3.27	0.01	0	0	0.02
57	CO191	Connected member	2.39	0.5	1.45	-0.98	1.89
	CO191	Connected member	-1.97	0.06	0.91	-0.99	0.6
57	CO192	Main member	31.35	-0.5	1.37	1.21	1.84
	CO192	Connected member	0.48	-0.05	-0.9	-1	0.56
57	CO192	Connected member	3.25	0	0	0	-0.02
	CO192	Connected member	31.35	0.5	-1.37	1.21	1.84



::LAV/team::

Page: 118/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO192	Connected member	0.48	0.05	0.9	-1	0.56
	CO193	Main member	37.24	-0.44	1.4	1.3	1.62
	CO193	Connected member	-1.22	-0.06	-0.9	-0.97	0.59
	CO193	Connected member	3.21	0.02	0	0	0.07
	CO193	Connected member	37.24	0.44	-1.4	1.3	1.62
57	CO193	Connected member	-1.22	0.06	0.9	-0.97	0.59
	CO194	Main member	-42.02	-0.04	-2.39	-2.42	0.17
	CO194	Connected member	5.41	-0.03	-1.02	-1.44	0.25
	CO194	Connected member	3.37	0.03	-0.08	0.27	0.11
	CO194	Connected member	-31.51	0.1	5.22	-3.51	0.31
57	CO194	Connected member	-8.52	0.01	0.84	-0.62	0.14
	CO195	Main member	-51.06	-0.06	-4.58	-3.19	0.19
	CO195	Connected member	22.34	-0.04	-0.8	-0.5	0.27
	CO195	Connected member	3.37	0.03	0.17	-0.47	0.11
	CO195	Connected member	-18.4	0.09	1.71	-1.66	0.29
57	CO195	Connected member	-23.83	0.01	1.04	-1.55	0.13
	CO196	Main member	-56.79	-0.06	-4.69	-3.59	0.2
	CO196	Connected member	14.71	-0.03	-0.88	-0.81	0.27
	CO196	Connected member	3.37	0.03	0.09	-0.23	0.12
	CO196	Connected member	-32.25	0.1	3.53	-2.92	0.31
57	CO196	Connected member	-19.51	0.01	0.98	-1.24	0.14
	CO197	Main member	-30.9	-0.04	-2.07	-0.86	0.16
	CO197	Connected member	20.06	-0.03	-0.83	-0.64	0.25
	CO197	Connected member	3.37	0.02	0.13	-0.37	0.11
	CO197	Connected member	-3.62	0.09	-0.06	0.32	0.29
57	CO197	Connected member	-18.14	0.01	1.02	-1.45	0.13
	CO198	Main member	-30.27	-0.5	-4.4	-3.05	1.94
	CO198	Connected member	-0.26	-0.07	-0.87	-0.74	0.65
	CO198	Connected member	3.32	0.02	0.06	-0.19	0.05
	CO198	Connected member	-25.99	0.5	2.81	-2.35	1.94
57	CO198	Connected member	-6.38	0.07	0.98	-1.24	0.64
	CO199	Main member	4.35	-0.49	-1.49	-0.19	1.86
	CO199	Connected member	1.46	-0.06	-0.86	-0.74	0.59
	CO199	Connected member	3.28	0.01	0.06	-0.19	0.01
	CO199	Connected member	8.63	0.49	-0.09	0.5	1.86
57	CO199	Connected member	-4.64	0.06	0.97	-1.24	0.58
	CO200	Main member	4.63	-0.5	-1.35	-0.63	1.89
	CO200	Connected member	1.46	-0.06	-0.85	-0.74	0.6
	CO200	Connected member	3.27	0.01	0.06	-0.19	0.01
	CO200	Connected member	8.91	0.5	-0.23	0.06	1.89
57	CO200	Connected member	-4.64	0.06	0.97	-1.24	0.59
	CO201	Main member	33.59	-0.5	1.47	1.56	1.84
	CO201	Connected member	3.91	-0.05	-0.84	-0.75	0.56
	CO201	Connected member	3.24	0	0.06	-0.19	-0.03
	CO201	Connected member	37.87	0.5	-3.04	2.25	1.84
57	CO201	Connected member	-2.19	0.05	0.96	-1.24	0.55
	CO202	Main member	39.48	-0.44	1.5	1.65	1.61
	CO202	Connected member	2.21	-0.06	-0.84	-0.73	0.58
	CO202	Connected member	3.21	0.02	0.06	-0.19	0.07
	CO202	Connected member	43.75	0.44	-3.07	2.33	1.61
57	CO202	Connected member	-3.89	0.05	0.95	-1.22	0.58
	CO203	Main member	-39.78	-0.05	-2.29	-2.06	0.17
	CO203	Connected member	8.84	-0.03	-0.96	-1.19	0.26
	CO203	Connected member	3.37	0.03	-0.02	0.08	0.11
	CO203	Connected member	-24.99	0.1	3.53	-2.46	0.31
57	CO203	Connected member	-11.19	0.01	0.9	-0.88	0.14
	CO204	Main member	-48.82	-0.06	-4.49	-2.83	0.19
	CO204	Connected member	25.77	-0.04	-0.74	-0.25	0.27
	CO204	Connected member	3.37	0.03	0.24	-0.67	0.11
	CO204	Connected member	-11.88	0.09	0.02	-0.62	0.29
57	CO204	Connected member	-26.51	0.01	1.09	-1.8	0.13
	CO205	Main member	-54.75	-0.09	-1.38	-1.44	0.3
	CO205	Connected member	22.14	-0.06	-0.94	-1.1	0.44
	CO205	Connected member	3.38	0.04	0.04	-0.05	0.18
	CO205	Connected member	-21.04	0.16	2.11	-1.5	0.49
57	CO205	Connected member	-24.63	0.01	0.92	-0.99	0.21
	CO206	Main member	-11.59	-0.06	2.98	3.07	0.23
	CO206	Connected member	31.03	-0.05	-0.86	-0.82	0.41
	CO206	Connected member	3.37	0.04	0.11	-0.29	0.16
	CO206	Connected member	26.63	0.15	-3.87	3.87	0.47
57	CO206	Connected member	-22.32	0.01	0.98	-1.33	0.19
	CO207	Main member	-10.57	-0.84	-0.9	-0.56	3.2
	CO207	Connected member	-2.78	-0.11	-0.92	-0.99	1.04
	CO207	Connected member	3.3	0.02	0	0	0.06
	CO207	Connected member	-10.57	0.84	0.9	-0.56	3.2
57	CO207	Connected member	-2.78	0.11	0.92	-0.99	1.04
	CO208	Main member	47.1	-0.83	3.93	4.15	3.02
	CO208	Connected member	0.11	-0.09	-0.9	-0.98	0.91
	CO208	Connected member	3.22	0	0	0	-0.04
	CO208	Connected member	47.1	0.83	-3.93	4.15	3.02
57	CO208	Connected member	0.11	0.09	0.9	-0.98	0.91
	CO209	Main member	47.56	-0.86	4.16	3.43	3.07
	CO209	Connected member	0.11	-0.09	-0.9	-0.98	0.93
	CO209	Connected member	3.22	0	0	0	-0.03
	CO209	Connected member	47.56	0.86	-4.16	3.43	3.07
57	CO209	Connected member	0.11	0.09	0.9	-0.98	0.93
	CO210	Main member	95.79	-0.86	8.83	7.02	2.98
	CO210	Connected member	4.19	-0.07	-0.88	-1	0.82
	CO210	Connected member	3.16	-0.02	0	0	-0.14
	CO210	Connected member	95.79	0.86	-8.83	7.02	2.98
57	CO210	Connected member	4.19	0.07	0.88	-1	0.82
	CO211	Main member	105.6	-0.76	8.88	7.16	2.6
	CO211	Connected member	1.37	-0.08	-0.87	-0.95	0.89
	CO211	Connected member	3.11	0.02	0	0	0.05



::LAV/team::

Page: 119/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO211	Connected member	105.6	0.76	-8.88	7.16	2.6
	CO211	Connected member	1.37	0.08	0.87	-0.95	0.89
	CO212	Main member	-26.4	-0.06	2.6	1.08	0.26
57	CO212	Connected member	12.36	-0.05	-1.08	-1.74	0.41
	CO212	Connected member	3.37	0.04	-0.14	0.45	0.18
	CO212	Connected member	-8.95	0.17	2.1	-0.73	0.5
57	CO212	Connected member	-10.77	0.01	0.78	-0.38	0.21
	CO213	Main member	-41.46	-0.08	-1.04	-0.19	0.29
	CO213	Connected member	40.55	-0.06	-0.71	-0.18	0.44
57	CO213	Connected member	3.38	0.04	0.28	-0.79	0.18
	CO213	Connected member	12.88	0.15	-3.73	2.32	0.47
	CO213	Connected member	-36.27	0.01	1.11	-1.91	0.19
57	CO214	Main member	-69.64	-0.09	-4.9	-4.2	0.31
	CO214	Connected member	20.21	-0.06	-0.95	-1.08	0.44
	CO214	Connected member	3.38	0.04	0.04	-0.05	0.19
57	CO214	Connected member	-35.89	0.16	5.63	-4.25	0.5
	CO214	Connected member	-26.61	0.01	0.93	-0.97	0.21
	CO215	Main member	-26.47	-0.06	-0.54	0.34	0.24
57	CO215	Connected member	29.1	-0.05	-0.86	-0.8	0.41
	CO215	Connected member	3.37	0.04	0.12	-0.29	0.17
	CO215	Connected member	11.79	0.16	-0.36	1.15	0.48
57	CO215	Connected member	-24.3	0.01	0.98	-1.31	0.2
	CO216	Main member	-25.43	-0.82	-4.42	-3.3	3.21
	CO216	Connected member	-4.73	-0.11	-0.92	-0.98	1.07
57	CO216	Connected member	3.3	0.03	0	0	0.1
	CO216	Connected member	-25.43	0.82	4.42	-3.3	3.21
	CO216	Connected member	-4.73	0.11	0.92	-0.98	1.07
57	CO217	Main member	32.26	-0.82	0.42	1.45	3.03
	CO217	Connected member	-1.84	-0.09	-0.9	-0.97	0.95
	CO217	Connected member	3.22	0.01	0	0	0
57	CO217	Connected member	32.26	0.82	-0.42	1.45	3.03
	CO217	Connected member	-1.84	0.09	0.9	-0.97	0.95
	CO218	Main member	32.72	-0.84	0.65	0.72	3.08
57	CO218	Connected member	-1.84	-0.09	-0.9	-0.97	0.96
	CO218	Connected member	3.21	0.01	0	0	0.01
	CO218	Connected member	32.72	0.84	-0.65	0.72	3.08
57	CO218	Connected member	-1.84	0.09	0.9	-0.97	0.96
	CO219	Main member	80.96	-0.85	5.33	4.34	2.99
	CO219	Connected member	2.24	-0.07	-0.88	-0.98	0.85
57	CO219	Connected member	3.17	-0.01	0	0	-0.1
	CO219	Connected member	80.96	0.85	-5.33	4.34	2.99
	CO219	Connected member	2.24	0.07	0.88	-0.98	0.85
57	CO220	Main member	90.77	-0.75	5.38	4.48	2.61
	CO220	Connected member	-0.59	-0.08	-0.87	-0.94	0.92
	CO220	Connected member	3.11	0.03	0	0	0.08
57	CO220	Connected member	90.77	0.75	-5.38	4.48	2.61
	CO220	Connected member	-0.59	0.08	0.87	-0.94	0.92
	CO221	Main member	-41.28	-0.07	-0.91	-1.66	0.26
57	CO221	Connected member	10.42	-0.05	-1.08	-1.72	0.41
	CO221	Connected member	3.37	0.04	-0.14	0.45	0.18
	CO221	Connected member	-23.8	0.17	5.63	-3.47	0.51
57	CO221	Connected member	-12.74	0.01	0.79	-0.36	0.22
	CO222	Main member	-56.34	-0.09	-4.57	-2.94	0.29
	CO222	Connected member	38.63	-0.06	-0.71	-0.16	0.44
57	CO222	Connected member	3.38	0.04	0.29	-0.79	0.18
	CO222	Connected member	-1.96	0.15	-0.22	-0.4	0.47
	CO222	Connected member	-38.25	0.01	1.11	-1.9	0.2
57	CO223	Main member	-74.37	-0.09	-5.87	-4.96	0.31
	CO223	Connected member	19.81	-0.06	-0.95	-1.08	0.44
	CO223	Connected member	3.38	0.04	0.04	-0.05	0.19
57	CO223	Connected member	-40.62	0.16	6.6	-5.01	0.5
	CO223	Connected member	-27.02	0.01	0.93	-0.97	0.21
	CO224	Main member	-31.2	-0.06	-1.5	-0.41	0.24
57	CO224	Connected member	28.7	-0.05	-0.86	-0.8	0.41
	CO224	Connected member	3.37	0.04	0.12	-0.29	0.17
	CO224	Connected member	7.07	0.16	0.61	0.4	0.48
57	CO224	Connected member	-24.72	0.01	0.98	-1.31	0.2
	CO225	Main member	-30.16	-0.82	-5.39	-4.06	3.22
	CO225	Connected member	-5.14	-0.12	-0.92	-0.97	1.08
57	CO225	Connected member	3.3	0.04	0	0	0.11
	CO225	Connected member	-30.16	0.82	5.39	-4.06	3.22
	CO225	Connected member	-5.14	0.12	0.92	-0.97	1.08
57	CO226	Main member	27.54	-0.82	-0.55	0.7	3.04
	CO226	Connected member	-2.25	-0.09	-0.9	-0.97	0.96
	CO226	Connected member	3.22	0.01	0	0	0.01
57	CO226	Connected member	27.54	0.82	0.55	0.7	3.04
	CO226	Connected member	-2.25	0.09	0.9	-0.97	0.96
	CO227	Main member	27.99	-0.84	-0.31	-0.03	3.09
57	CO227	Connected member	-2.25	-0.1	-0.9	-0.96	0.97
	CO227	Connected member	3.22	0.01	0	0	0.02
	CO227	Connected member	27.99	0.84	0.31	-0.03	3.09
57	CO227	Connected member	-2.25	0.1	0.9	-0.96	0.97
	CO228	Main member	76.24	-0.85	4.37	3.59	2.99
	CO228	Connected member	1.83	-0.08	-0.88	-0.98	0.86
57	CO228	Connected member	3.17	-0.01	0	0	-0.09
	CO228	Connected member	76.24	0.85	-4.37	3.59	2.99
	CO228	Connected member	1.83	0.08	0.88	-0.98	0.86
57	CO229	Main member	86.05	-0.75	4.42	3.74	2.61
	CO229	Connected member	-0.99	-0.08	-0.88	-0.93	0.92
	CO229	Connected member	3.11	0.03	0	0	0.09
57	CO229	Connected member	86.05	0.75	-4.42	3.74	2.61
	CO229	Connected member	-0.99	0.08	0.88	-0.93	0.92
	CO230	Main member	-46.01	-0.07	-1.88	-2.41	0.26
57	CO230	Connected member	10.02	-0.05	-1.08	-1.72	0.41



::LAV/team::

Page: 120/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO230	Connected member	3.37	0.04	-0.14	0.46	0.18
	CO230	Connected member	-28.53	0.17	6.6	-4.23	0.51
	CO230	Connected member	-13.15	0.01	0.79	-0.36	0.22
57	CO231	Main member	-61.08	-0.09	-5.54	-3.7	0.3
	CO231	Connected member	38.23	-0.06	-0.71	-0.15	0.44
	CO231	Connected member	3.38	0.04	0.29	-0.79	0.18
57	CO231	Connected member	-6.69	0.15	0.75	-1.16	0.48
	CO231	Connected member	-38.67	0.01	1.11	-1.9	0.2
	CO232	Main member	-59.49	-0.09	-2.35	-2.2	0.3
57	CO232	Connected member	21.74	-0.06	-0.94	-1.1	0.44
	CO232	Connected member	3.39	0.04	0.04	-0.05	0.19
	CO232	Connected member	-25.77	0.16	3.07	-2.26	0.5
57	CO232	Connected member	-25.05	0.01	0.93	-0.98	0.21
	CO233	Main member	-16.32	-0.06	2.01	2.32	0.23
	CO233	Connected member	30.63	-0.05	-0.86	-0.81	0.41
57	CO233	Connected member	3.37	0.04	0.11	-0.29	0.17
	CO233	Connected member	21.91	0.16	-2.91	3.12	0.47
	CO233	Connected member	-22.74	0.01	0.98	-1.32	0.19
57	CO234	Main member	-15.3	-0.83	-1.87	-1.32	3.2
	CO234	Connected member	-3.18	-0.11	-0.92	-0.99	1.05
	CO234	Connected member	3.3	0.03	0	0	0.07
57	CO234	Connected member	-15.3	0.83	1.87	-1.32	3.2
	CO234	Connected member	-3.18	0.11	0.92	-0.99	1.05
	CO235	Main member	42.38	-0.83	2.96	3.41	3.03
57	CO235	Connected member	-0.29	-0.09	-0.9	-0.98	0.92
	CO235	Connected member	3.22	0	0	0	-0.03
	CO235	Connected member	42.38	0.83	-2.96	3.41	3.03
57	CO235	Connected member	-0.29	0.09	0.9	-0.98	0.92
	CO236	Main member	42.84	-0.85	3.2	2.68	3.08
	CO236	Connected member	-0.3	-0.09	-0.9	-0.98	0.94
57	CO236	Connected member	3.22	0	0	0	-0.02
	CO236	Connected member	42.84	0.85	-3.2	2.68	3.08
	CO236	Connected member	-0.3	0.09	0.9	-0.98	0.94
57	CO237	Main member	91.07	-0.86	7.87	6.28	2.98
	CO237	Connected member	3.78	-0.07	-0.88	-1	0.83
	CO237	Connected member	3.17	-0.02	0	0	-0.13
57	CO237	Connected member	91.07	0.86	-7.87	6.28	2.98
	CO237	Connected member	3.78	0.07	0.88	-1	0.83
	CO238	Main member	100.88	-0.76	7.92	6.43	2.6
57	CO238	Connected member	0.96	-0.08	-0.87	-0.95	0.89
	CO238	Connected member	3.11	0.02	0	0	0.06
	CO238	Connected member	100.88	0.76	-7.92	6.43	2.6
57	CO238	Connected member	0.96	0.08	0.87	-0.95	0.89
	CO239	Main member	-31.13	-0.07	1.64	0.33	0.26
57	CO239	Connected member	11.95	-0.05	-1.08	-1.74	0.41
	CO239	Connected member	3.37	0.04	-0.14	0.45	0.18
	CO239	Connected member	-13.68	0.17	3.07	-1.48	0.5
57	CO239	Connected member	-11.18	0.01	0.78	-0.38	0.21
	CO240	Main member	-46.19	-0.08	-2.01	-0.95	0.29
57	CO240	Connected member	40.15	-0.06	-0.71	-0.18	0.44
	CO240	Connected member	3.38	0.04	0.28	-0.79	0.18
	CO240	Connected member	8.16	0.15	-2.77	1.57	0.47
57	CO240	Connected member	-36.68	0.01	1.11	-1.91	0.19
	CO241	Main member	-78.4	-0.09	-6.7	-5.61	0.31
57	CO241	Connected member	19.47	-0.06	-0.95	-1.08	0.44
	CO241	Connected member	3.38	0.04	0.04	-0.05	0.19
	CO241	Connected member	-44.64	0.16	7.43	-5.66	0.5
57	CO241	Connected member	-27.38	0.01	0.93	-0.97	0.21
	CO242	Main member	-35.23	-0.06	-2.33	-1.05	0.24
57	CO242	Connected member	28.36	-0.05	-0.86	-0.79	0.41
	CO242	Connected member	3.37	0.04	0.12	-0.29	0.17
	CO242	Connected member	3.04	0.16	1.43	-0.24	0.48
57	CO242	Connected member	-25.07	0.01	0.99	-1.31	0.2
	CO243	Main member	-34.19	-0.81	-6.21	-4.71	3.22
57	CO243	Connected member	-5.49	-0.12	-0.92	-0.97	1.09
	CO243	Connected member	3.3	0.04	0	0	0.12
	CO243	Connected member	-34.19	0.81	6.21	-4.71	3.22
57	CO243	Connected member	-5.49	0.12	0.92	-0.97	1.09
	CO244	Main member	23.51	-0.81	-1.37	0.06	3.04
57	CO244	Connected member	-2.6	-0.1	-0.9	-0.96	0.96
	CO244	Connected member	3.23	0.01	0	0	0.02
	CO244	Connected member	23.51	0.81	1.37	0.06	3.04
57	CO244	Connected member	-2.6	0.1	0.9	-0.96	0.96
	CO245	Main member	23.97	-0.84	-1.14	-0.67	3.09
57	CO245	Connected member	-2.6	-0.1	-0.9	-0.96	0.98
	CO245	Connected member	3.22	0.02	0	0	0.03
	CO245	Connected member	23.97	0.84	1.14	-0.67	3.09
57	CO245	Connected member	-2.6	0.1	0.9	-0.96	0.98
	CO246	Main member	72.22	-0.84	3.55	2.96	3
57	CO246	Connected member	1.48	-0.08	-0.88	-0.98	0.87
	CO246	Connected member	3.17	-0.01	0	0	-0.08
	CO246	Connected member	72.22	0.84	-3.55	2.96	3
57	CO246	Connected member	1.48	0.08	0.88	-0.98	0.87
	CO247	Main member	82.03	-0.75	3.6	3.11	2.61
57	CO247	Connected member	-1.34	-0.09	-0.88	-0.93	0.93
	CO247	Connected member	3.12	0.03	0	0	0.1
	CO247	Connected member	82.03	0.75	-3.6	3.11	2.61
57	CO247	Connected member	-1.34	0.09	0.88	-0.93	0.93
	CO248	Main member	-50.04	-0.07	-2.7	-3.06	0.26
57	CO248	Connected member	9.68	-0.05	-1.08	-1.72	0.41
	CO248	Connected member	3.37	0.04	-0.14	0.46	0.18
	CO248	Connected member	-32.55	0.17	7.42	-4.87	0.51
57	CO248	Connected member	-13.5	0.01	0.79	-0.36	0.22
	CO249	Main member	-65.11	-0.09	-6.36	-4.35	0.3



::LAV/team::

Page: 121/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO249	Connected member	37.89	-0.06	-0.71	-0.15	0.44
	CO249	Connected member	3.38	0.04	0.29	-0.79	0.18
	CO249	Connected member	-10.71	0.15	1.57	-1.8	0.48
	CO249	Connected member	-39.02	0.01	1.12	-1.9	0.2
57	CO250	Main member	-77.29	-0.09	-6.65	-5.43	0.31
	CO250	Connected member	21.18	-0.06	-0.92	-0.95	0.44
	CO250	Connected member	3.38	0.04	0.07	-0.15	0.19
	CO250	Connected member	-41.38	0.16	6.58	-5.13	0.5
57	CO250	Connected member	-28.71	0.01	0.96	-1.1	0.21
	CO251	Main member	-34.11	-0.06	-2.28	-0.88	0.24
	CO251	Connected member	30.08	-0.05	-0.83	-0.67	0.41
	CO251	Connected member	3.37	0.04	0.15	-0.39	0.17
57	CO251	Connected member	6.3	0.16	0.59	0.28	0.48
	CO251	Connected member	-26.4	0.01	1.01	-1.43	0.2
	CO252	Main member	-33.07	-0.81	-6.16	-4.53	3.22
	CO252	Connected member	-3.77	-0.12	-0.9	-0.85	1.09
57	CO252	Connected member	3.3	0.04	0.03	-0.1	0.11
	CO252	Connected member	-30.93	0.82	5.37	-4.18	3.22
	CO252	Connected member	-6.83	0.12	0.95	-1.1	1.09
	CO253	Main member	24.63	-0.81	-1.32	0.23	3.04
57	CO253	Connected member	-0.88	-0.1	-0.87	-0.84	0.96
	CO253	Connected member	3.22	0.01	0.03	-0.1	0.02
	CO253	Connected member	26.77	0.82	0.53	0.58	3.04
	CO253	Connected member	-3.93	0.09	0.93	-1.09	0.96
57	CO254	Main member	25.09	-0.84	-1.08	-0.5	3.09
	CO254	Connected member	-0.88	-0.1	-0.87	-0.84	0.98
	CO254	Connected member	3.22	0.01	0.03	-0.1	0.02
	CO254	Connected member	27.22	0.84	0.3	-0.15	3.09
57	CO254	Connected member	-3.94	0.1	0.93	-1.09	0.97
	CO255	Main member	73.34	-0.84	3.61	3.14	2.99
	CO255	Connected member	3.2	-0.08	-0.86	-0.86	0.87
	CO255	Connected member	3.17	-0.01	0.03	-0.09	-0.08
57	CO255	Connected member	75.47	0.85	-4.39	3.47	2.99
	CO255	Connected member	0.15	0.08	0.91	-1.1	0.86
	CO256	Main member	83.15	-0.75	3.66	3.28	2.61
	CO256	Connected member	0.37	-0.09	-0.85	-0.81	0.93
57	CO256	Connected member	3.11	0.03	0.03	-0.09	0.1
	CO256	Connected member	85.29	0.75	-4.44	3.62	2.61
	CO256	Connected member	-2.67	0.08	0.9	-1.06	0.92
	CO257	Main member	-48.92	-0.07	-2.65	-2.88	0.26
57	CO257	Connected member	11.39	-0.05	-1.06	-1.6	0.42
	CO257	Connected member	3.37	0.04	-0.11	0.36	0.18
	CO257	Connected member	-29.29	0.17	6.58	-4.35	0.51
	CO257	Connected member	-14.84	0.01	0.82	-0.48	0.22
57	CO258	Main member	-63.99	-0.09	-6.32	-4.17	0.3
	CO258	Connected member	39.6	-0.06	-0.68	-0.02	0.44
	CO258	Connected member	3.38	0.04	0.32	-0.89	0.18
	CO258	Connected member	-7.45	0.15	0.73	-1.28	0.48
57	CO258	Connected member	-40.36	0.01	1.14	-2.02	0.2
	CO259	Main member	-83.14	-0.09	-7.67	-6.37	0.31
	CO259	Connected member	19.07	-0.06	-0.95	-1.07	0.44
	CO259	Connected member	3.39	0.04	0.04	-0.05	0.19
57	CO259	Connected member	-49.37	0.16	8.4	-6.42	0.5
	CO259	Connected member	-27.79	0.01	0.93	-0.97	0.22
	CO260	Main member	-39.97	-0.06	-3.29	-1.81	0.24
	CO260	Connected member	27.96	-0.05	-0.86	-0.79	0.41
57	CO260	Connected member	3.38	0.04	0.12	-0.29	0.17
	CO260	Connected member	-1.68	0.16	2.39	-0.99	0.48
	CO260	Connected member	-25.48	0.01	0.99	-1.31	0.2
	CO261	Main member	-38.92	-0.81	-7.18	-5.47	3.23
57	CO261	Connected member	-5.9	-0.12	-0.93	-0.97	1.1
	CO261	Connected member	3.3	0.04	0	0	0.13
	CO261	Connected member	-38.92	0.81	7.18	-5.47	3.23
	CO261	Connected member	-5.9	0.12	0.93	-0.97	1.1
57	CO262	Main member	18.79	-0.81	-2.33	-0.69	3.05
	CO262	Connected member	-3.01	-0.1	-0.9	-0.96	0.97
	CO262	Connected member	3.23	0.02	0	0	0.03
	CO262	Connected member	18.79	0.81	2.33	-0.69	3.05
57	CO262	Connected member	-3.01	0.1	0.9	-0.96	0.97
	CO263	Main member	19.24	-0.83	-2.1	-1.42	3.1
	CO263	Connected member	-3.01	-0.1	-0.9	-0.96	0.99
	CO263	Connected member	3.22	0.02	0	0	0.04
57	CO263	Connected member	19.24	0.83	2.1	-1.42	3.1
	CO263	Connected member	-3.01	0.1	0.9	-0.96	0.99
	CO264	Main member	67.5	-0.84	2.59	2.22	3
	CO264	Connected member	1.07	-0.08	-0.89	-0.98	0.88
57	CO264	Connected member	3.17	-0.01	0	0	-0.07
	CO264	Connected member	67.5	0.84	-2.59	2.22	3
	CO264	Connected member	1.07	0.08	0.89	-0.98	0.88
	CO265	Main member	77.31	-0.75	2.64	2.36	2.62
57	CO265	Connected member	-1.75	-0.09	-0.88	-0.93	0.94
	CO265	Connected member	3.12	0.03	0	0	0.11
	CO265	Connected member	77.31	0.75	-2.64	2.36	2.62
	CO265	Connected member	-1.75	0.09	0.88	-0.93	0.94
57	CO266	Main member	-54.77	-0.07	-3.67	-3.82	0.27
	CO266	Connected member	9.27	-0.05	-1.09	-1.72	0.42
	CO266	Connected member	3.38	0.04	-0.14	0.46	0.18
	CO266	Connected member	-37.28	0.17	8.39	-5.64	0.51
57	CO266	Connected member	-13.91	0.01	0.79	-0.36	0.22
	CO267	Main member	-69.85	-0.09	-7.33	-5.11	0.3
	CO267	Connected member	37.49	-0.06	-0.71	-0.15	0.44
	CO267	Connected member	3.38	0.04	0.29	-0.79	0.18
57	CO267	Connected member	-15.43	0.15	2.54	-2.56	0.48
	CO267	Connected member	-39.44	0.01	1.12	-1.9	0.2



::LAV/team::

Page: 122/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO268	Main member	-82.02	-0.09	-7.62	-6.19	0.31
	CO268	Connected member	20.78	-0.06	-0.92	-0.95	0.44
	CO268	Connected member	3.39	0.04	0.07	-0.15	0.19
	CO268	Connected member	-46.11	0.16	7.55	-5.9	0.5
	CO268	Connected member	-29.13	0.01	0.96	-1.09	0.21
57	CO269	Main member	-38.85	-0.06	-3.24	-1.63	0.24
	CO269	Connected member	29.67	-0.05	-0.83	-0.66	0.41
	CO269	Connected member	3.37	0.04	0.15	-0.39	0.17
	CO269	Connected member	1.58	0.16	1.55	-0.47	0.48
	CO269	Connected member	-26.82	0.01	1.01	-1.43	0.2
57	CO270	Main member	-37.8	-0.81	-7.13	-5.29	3.22
	CO270	Connected member	-4.18	-0.12	-0.9	-0.84	1.1
	CO270	Connected member	3.3	0.04	0.03	-0.1	0.12
	CO270	Connected member	-35.66	0.81	6.34	-4.94	3.22
	CO270	Connected member	-7.23	0.12	0.95	-1.09	1.1
57	CO271	Main member	19.91	-0.81	-2.28	-0.52	3.05
	CO271	Connected member	-1.29	-0.1	-0.88	-0.84	0.97
	CO271	Connected member	3.23	0.02	0.03	-0.1	0.03
	CO271	Connected member	22.04	0.81	1.49	-0.17	3.05
	CO271	Connected member	-4.34	0.1	0.93	-1.09	0.97
57	CO272	Main member	20.36	-0.83	-2.05	-1.25	3.1
	CO272	Connected member	-1.29	-0.1	-0.87	-0.84	0.99
	CO272	Connected member	3.22	0.02	0.03	-0.1	0.03
	CO272	Connected member	22.5	0.83	1.26	-0.91	3.1
	CO272	Connected member	-4.34	0.1	0.93	-1.08	0.98
57	CO273	Main member	68.61	-0.84	2.64	2.39	3
	CO273	Connected member	2.79	-0.08	-0.86	-0.85	0.88
	CO273	Connected member	3.17	-0.01	0.03	-0.09	-0.07
	CO273	Connected member	70.75	0.84	-3.43	2.73	3
	CO273	Connected member	-0.26	0.08	0.91	-1.1	0.87
57	CO274	Main member	78.43	-0.75	2.7	2.54	2.62
	CO274	Connected member	-0.04	-0.09	-0.85	-0.81	0.94
	CO274	Connected member	3.12	0.03	0.03	-0.09	0.1
	CO274	Connected member	80.57	0.75	-3.48	2.88	2.62
	CO274	Connected member	-3.08	0.09	0.9	-1.05	0.93
57	CO275	Main member	-53.65	-0.07	-3.62	-3.64	0.27
	CO275	Connected member	10.99	-0.05	-1.06	-1.59	0.42
	CO275	Connected member	3.37	0.04	-0.11	0.36	0.18
	CO275	Connected member	-34.02	0.17	7.55	-5.11	0.51
	CO275	Connected member	-15.25	0.01	0.82	-0.48	0.22
57	CO276	Main member	-68.73	-0.09	-7.29	-4.93	0.3
	CO276	Connected member	39.2	-0.06	-0.68	-0.02	0.44
	CO276	Connected member	3.38	0.04	0.32	-0.89	0.18
	CO276	Connected member	-12.18	0.15	1.69	-2.04	0.48
	CO276	Connected member	-40.77	0.01	1.14	-2.02	0.2
57	CO277	Main member	-68.25	-0.09	-4.14	-3.61	0.3
	CO277	Connected member	21	-0.06	-0.95	-1.09	0.44
	CO277	Connected member	3.39	0.04	0.04	-0.05	0.19
	CO277	Connected member	-34.52	0.16	4.87	-3.66	0.5
	CO277	Connected member	-25.81	0.01	0.93	-0.98	0.21
57	CO278	Main member	-25.09	-0.06	0.23	0.93	0.24
	CO278	Connected member	29.89	-0.05	-0.86	-0.81	0.41
	CO278	Connected member	3.38	0.04	0.11	-0.29	0.17
	CO278	Connected member	13.16	0.16	-1.12	1.73	0.48
	CO278	Connected member	-23.51	0.01	0.98	-1.32	0.2
57	CO279	Main member	-24.05	-0.83	-3.66	-2.72	3.21
	CO279	Connected member	-3.94	-0.11	-0.92	-0.98	1.07
	CO279	Connected member	3.31	0.03	0	0	0.09
	CO279	Connected member	-24.05	0.83	3.66	-2.72	3.21
	CO279	Connected member	-3.94	0.11	0.92	-0.98	1.07
57	CO280	Main member	33.64	-0.82	1.18	2.02	3.04
	CO280	Connected member	-1.05	-0.09	-0.9	-0.98	0.94
	CO280	Connected member	3.23	0.01	0	0	-0.01
	CO280	Connected member	33.64	0.82	-1.18	2.02	3.04
	CO280	Connected member	-1.05	0.09	0.9	-0.98	0.94
57	CO281	Main member	34.09	-0.85	1.41	1.3	3.09
	CO281	Connected member	-1.05	-0.09	-0.9	-0.97	0.95
	CO281	Connected member	3.22	0.01	0	0	0
	CO281	Connected member	34.09	0.85	-1.41	1.3	3.09
	CO281	Connected member	-1.05	0.09	0.9	-0.97	0.95
57	CO282	Main member	82.33	-0.85	6.09	4.91	2.99
	CO282	Connected member	3.03	-0.07	-0.88	-0.99	0.84
	CO282	Connected member	3.17	-0.02	0	0	-0.11
	CO282	Connected member	82.33	0.85	-6.09	4.91	2.99
	CO282	Connected member	3.03	0.07	0.88	-0.99	0.84
57	CO283	Main member	92.15	-0.76	6.14	5.06	2.61
	CO283	Connected member	0.2	-0.08	-0.87	-0.95	0.91
	CO283	Connected member	3.12	0.02	0	0	0.07
	CO283	Connected member	92.15	0.76	-6.14	5.06	2.61
	CO283	Connected member	0.2	0.08	0.87	-0.95	0.91
57	CO284	Main member	-39.89	-0.07	-0.15	-1.07	0.26
	CO284	Connected member	11.21	-0.05	-1.08	-1.73	0.41
	CO284	Connected member	3.38	0.04	-0.14	0.45	0.18
	CO284	Connected member	-22.42	0.17	4.86	-2.88	0.51
	CO284	Connected member	-11.94	0.01	0.79	-0.37	0.21
57	CO285	Main member	-54.96	-0.08	-3.8	-2.35	0.29
	CO285	Connected member	39.41	-0.06	-0.71	-0.17	0.44
	CO285	Connected member	3.38	0.04	0.29	-0.79	0.18
	CO285	Connected member	-0.59	0.15	-0.98	0.18	0.47
	CO285	Connected member	-37.45	0.01	1.11	-1.91	0.19
57	CO286	Main member	-67.13	-0.09	-4.09	-3.43	0.31
	CO286	Connected member	22.71	-0.06	-0.92	-0.97	0.44
	CO286	Connected member	3.39	0.04	0.07	-0.15	0.19
	CO286	Connected member	-31.26	0.16	4.02	-3.14	0.5



::LAV/team::

Page: 123/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO286	Connected member	-27.15	0.01	0.95	-1.11	0.21
	CO287	Main member	-23.97	-0.06	0.28	1.1	0.24
	CO287	Connected member	31.6	-0.05	-0.83	-0.68	0.41
	CO287	Connected member	3.37	0.04	0.15	-0.39	0.17
	CO287	Connected member	16.42	0.16	-1.96	2.25	0.48
57	CO287	Connected member	-24.84	0.01	1.01	-1.44	0.19
	CO288	Main member	-22.94	-0.83	-3.61	-2.54	3.21
	CO288	Connected member	-2.22	-0.11	-0.89	-0.86	1.06
	CO288	Connected member	3.31	0.03	0.03	-0.1	0.08
	CO288	Connected member	-20.8	0.83	2.81	-2.19	3.21
57	CO288	Connected member	-5.28	0.11	0.95	-1.11	1.06
	CO289	Main member	34.75	-0.82	1.23	2.2	3.04
	CO289	Connected member	0.66	-0.09	-0.87	-0.86	0.94
	CO289	Connected member	3.23	0.01	0.03	-0.1	-0.01
	CO289	Connected member	36.89	0.83	-2.02	2.54	3.04
57	CO289	Connected member	-2.39	0.09	0.93	-1.1	0.93
	CO290	Main member	35.21	-0.85	1.47	1.47	3.08
	CO290	Connected member	0.66	-0.09	-0.87	-0.85	0.95
	CO290	Connected member	3.22	0.01	0.03	-0.1	-0.01
	CO290	Connected member	37.35	0.85	-2.25	1.81	3.09
57	CO290	Connected member	-2.39	0.09	0.93	-1.1	0.95
	CO291	Main member	83.45	-0.86	6.15	5.09	2.99
	CO291	Connected member	4.74	-0.07	-0.85	-0.87	0.84
	CO291	Connected member	3.17	-0.02	0.03	-0.09	-0.12
	CO291	Connected member	85.58	0.86	-6.93	5.42	2.99
57	CO291	Connected member	1.69	0.07	0.91	-1.11	0.84
	CO292	Main member	93.26	-0.76	6.2	5.23	2.61
	CO292	Connected member	1.91	-0.08	-0.85	-0.82	0.91
	CO292	Connected member	3.12	0.02	0.03	-0.09	0.07
	CO292	Connected member	95.4	0.76	-6.98	5.57	2.61
57	CO292	Connected member	-1.13	0.08	0.9	-1.07	0.9
	CO293	Main member	-38.77	-0.07	-0.1	-0.89	0.26
	CO293	Connected member	12.92	-0.05	-1.05	-1.61	0.41
	CO293	Connected member	3.38	0.04	-0.11	0.36	0.18
	CO293	Connected member	-19.17	0.17	4.02	-2.36	0.5
57	CO293	Connected member	-13.28	0.01	0.81	-0.5	0.21
	CO294	Main member	-53.84	-0.08	-3.75	-2.18	0.29
	CO294	Connected member	41.12	-0.06	-0.68	-0.04	0.44
	CO294	Connected member	3.38	0.04	0.32	-0.89	0.18
	CO294	Connected member	2.67	0.15	-1.82	0.7	0.47
57	CO294	Connected member	-38.79	0.01	1.14	-2.03	0.19
	CO295	Main member	-63.52	-0.09	-3.17	-2.85	0.3
	CO295	Connected member	21.4	-0.06	-0.94	-1.1	0.44
	CO295	Connected member	3.39	0.04	0.04	-0.05	0.19
	CO295	Connected member	-29.79	0.16	3.9	-2.9	0.5
57	CO295	Connected member	-25.4	0.01	0.93	-0.98	0.21
	CO296	Main member	-20.35	-0.06	1.19	1.68	0.24
	CO296	Connected member	30.29	-0.05	-0.86	-0.81	0.41
	CO296	Connected member	3.37	0.04	0.11	-0.29	0.17
	CO296	Connected member	17.88	0.16	-2.09	2.49	0.48
57	CO296	Connected member	-23.09	0.01	0.98	-1.32	0.19
	CO297	Main member	-19.33	-0.83	-2.69	-1.96	3.21
	CO297	Connected member	-3.53	-0.11	-0.92	-0.99	1.05
	CO297	Connected member	3.31	0.03	0	0	0.08
	CO297	Connected member	-19.33	0.83	2.69	-1.96	3.21
57	CO297	Connected member	-3.53	0.11	0.92	-0.99	1.05
	CO298	Main member	38.36	-0.83	2.14	2.77	3.03
	CO298	Connected member	-0.64	-0.09	-0.9	-0.98	0.93
	CO298	Connected member	3.23	0	0	0	-0.02
	CO298	Connected member	38.36	0.83	-2.14	2.77	3.03
57	CO298	Connected member	-0.64	0.09	0.9	-0.98	0.93
	CO299	Main member	38.81	-0.85	2.38	2.04	3.08
	CO299	Connected member	-0.64	-0.09	-0.9	-0.98	0.94
	CO299	Connected member	3.22	0.01	0	0	-0.01
	CO299	Connected member	38.81	0.85	-2.38	2.04	3.08
57	CO299	Connected member	-0.64	0.09	0.9	-0.98	0.94
	CO300	Main member	87.05	-0.86	7.05	5.65	2.99
	CO300	Connected member	3.44	-0.07	-0.88	-0.99	0.83
	CO300	Connected member	3.17	-0.02	0	0	-0.12
	CO300	Connected member	87.05	0.86	-7.05	5.65	2.99
57	CO300	Connected member	3.44	0.07	0.88	-0.99	0.83
	CO301	Main member	96.87	-0.76	7.1	5.8	2.6
	CO301	Connected member	0.61	-0.08	-0.87	-0.95	0.9
	CO301	Connected member	3.12	0.02	0	0	0.06
	CO301	Connected member	96.87	0.76	-7.1	5.8	2.6
57	CO301	Connected member	0.61	0.08	0.87	-0.95	0.9
	CO302	Main member	-35.16	-0.07	0.82	-0.31	0.26
	CO302	Connected member	11.61	-0.05	-1.08	-1.73	0.41
	CO302	Connected member	3.38	0.04	-0.14	0.45	0.18
	CO302	Connected member	-17.7	0.17	3.89	-2.13	0.5
57	CO302	Connected member	-11.53	0.01	0.78	-0.37	0.21
	CO303	Main member	-50.22	-0.08	-2.83	-1.6	0.29
	CO303	Connected member	39.81	-0.06	-0.71	-0.17	0.44
	CO303	Connected member	3.38	0.04	0.28	-0.79	0.18
	CO303	Connected member	4.13	0.15	-1.94	0.93	0.47
57	CO303	Connected member	-37.04	0.01	1.11	-1.91	0.19
	CO304	Main member	-62.4	-0.09	-3.12	-2.67	0.3
	CO304	Connected member	23.11	-0.06	-0.91	-0.97	0.44
	CO304	Connected member	3.39	0.04	0.07	-0.15	0.19
	CO304	Connected member	-26.53	0.16	3.05	-2.38	0.5
57	CO304	Connected member	-26.74	0.01	0.95	-1.11	0.21
	CO305	Main member	-19.23	-0.06	1.24	1.86	0.24
	CO305	Connected member	32	-0.05	-0.83	-0.69	0.41
	CO305	Connected member	3.37	0.04	0.15	-0.39	0.17



::LAV/team::

Page: 124/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO305	Connected member	21.14	0.15	-2.93	3	0.47
	CO305	Connected member	-24.43	0.01	1.01	-1.45	0.19
	CO306	Main member	-18.21	-0.83	-2.64	-1.78	3.2
57	CO306	Connected member	-1.82	-0.11	-0.89	-0.86	1.05
	CO306	Connected member	3.31	0.03	0.03	-0.1	0.07
	CO306	Connected member	-16.07	0.83	1.85	-1.44	3.2
57	CO306	Connected member	-4.87	0.11	0.95	-1.11	1.05
	CO307	Main member	39.48	-0.83	2.2	2.95	3.03
	CO307	Connected member	1.07	-0.09	-0.87	-0.86	0.93
57	CO307	Connected member	3.23	0	0.03	-0.1	-0.02
	CO307	Connected member	41.61	0.83	-2.98	3.29	3.03
	CO307	Connected member	-1.98	0.09	0.93	-1.1	0.92
57	CO308	Main member	39.93	-0.85	2.43	2.22	3.08
	CO308	Connected member	1.07	-0.09	-0.87	-0.86	0.94
	CO308	Connected member	3.22	0	0.03	-0.1	-0.02
57	CO308	Connected member	42.07	0.85	-3.22	2.56	3.08
	CO308	Connected member	-1.98	0.09	0.92	-1.1	0.94
	CO309	Main member	88.17	-0.86	7.11	5.83	2.98
57	CO309	Connected member	5.15	-0.07	-0.85	-0.87	0.83
	CO309	Connected member	3.17	-0.02	0.03	-0.09	-0.13
	CO309	Connected member	90.3	0.86	-7.89	6.16	2.98
57	CO309	Connected member	2.1	0.07	0.91	-1.12	0.83
	CO310	Main member	97.98	-0.76	7.16	5.97	2.6
	CO310	Connected member	2.32	-0.08	-0.85	-0.83	0.9
57	CO310	Connected member	3.12	0.02	0.03	-0.09	0.06
	CO310	Connected member	100.12	0.76	-7.94	6.31	2.6
	CO310	Connected member	-0.72	0.08	0.9	-1.07	0.89
57	CO311	Main member	-34.04	-0.07	0.87	-0.14	0.26
	CO311	Connected member	13.33	-0.05	-1.05	-1.61	0.41
	CO311	Connected member	3.37	0.04	-0.1	0.36	0.18
57	CO311	Connected member	-14.44	0.17	3.05	-1.6	0.5
	CO311	Connected member	-12.87	0.01	0.81	-0.5	0.21
	CO312	Main member	-49.1	-0.08	-2.78	-1.42	0.29
57	CO312	Connected member	41.52	-0.06	-0.68	-0.05	0.44
	CO312	Connected member	3.38	0.04	0.32	-0.88	0.18
	CO312	Connected member	7.39	0.15	-2.79	1.45	0.47
57	CO312	Connected member	-38.37	0.01	1.14	-2.03	0.19
	CO313	Main member	-16.02	0	-0.7	-0.49	0.01
	CO313	Connected member	-0.96	0	-0.68	-0.75	0.01
57	CO313	Connected member	2.47	0	0	0	0.01
	CO313	Connected member	-16.02	0	0.7	-0.49	0.01
	CO313	Connected member	-0.96	0	0.68	-0.75	0.01
57	CO314	Main member	-30.89	-0.01	-4.22	-3.23	0.02
	CO314	Connected member	-2.92	0	-0.69	-0.74	0.01
	CO314	Connected member	2.47	0	0	0	0.01
57	CO314	Connected member	-30.89	0.01	4.22	-3.23	0.02
	CO314	Connected member	-2.92	0	0.69	-0.74	0.01
	CO315	Main member	-35.62	-0.01	-5.19	-3.99	0.02
57	CO315	Connected member	-3.33	0	-0.69	-0.74	0.01
	CO315	Connected member	2.47	0	0	0	0.01
	CO315	Connected member	-35.62	0.01	5.19	-3.99	0.02
57	CO315	Connected member	-3.33	0	0.69	-0.74	0.01
	CO316	Main member	-20.75	0	-1.66	-1.25	0.02
	CO316	Connected member	-1.37	0	-0.69	-0.75	0.01
57	CO316	Connected member	2.48	0	0	0	0.01
	CO316	Connected member	-20.75	0	1.66	-1.25	0.02
	CO316	Connected member	-1.37	0	0.69	-0.75	0.01
57	CO317	Main member	-51.05	-0.01	-7.86	-6.11	0.02
	CO317	Connected member	-3.99	0	-0.69	-0.74	0.01
	CO317	Connected member	2.49	0	0	0	0.01
57	CO317	Connected member	-51.05	0.01	7.86	-6.11	0.02
	CO317	Connected member	-3.99	0	0.69	-0.74	0.01
	CO318	Main member	-65.93	-0.01	-11.4	-8.88	0.03
57	CO318	Connected member	-5.95	0	-0.7	-0.72	0.02
	CO318	Connected member	2.49	0	0	0	0.01
	CO318	Connected member	-65.93	0.01	11.4	-8.88	0.03
57	CO318	Connected member	-5.95	0	0.7	-0.72	0.02
	CO319	Main member	-70.66	-0.01	-12.37	-9.64	0.03
	CO319	Connected member	-6.35	0	-0.7	-0.72	0.02
57	CO319	Connected member	2.49	0	0	0	0.01
	CO319	Connected member	-70.66	0.01	12.37	-9.64	0.03
	CO319	Connected member	-6.35	0	0.7	-0.72	0.02
57	CO320	Main member	-55.79	-0.01	-8.83	-6.87	0.03
	CO320	Connected member	-4.4	0	-0.7	-0.73	0.01
	CO320	Connected member	2.49	0	0	0	0.01
57	CO320	Connected member	-55.79	0.01	8.83	-6.87	0.03
	CO320	Connected member	-4.4	0	0.7	-0.73	0.01
	CO321	Main member	-74.69	-0.01	-13.19	-10.29	0.03
57	CO321	Connected member	-6.7	0	-0.7	-0.72	0.02
	CO321	Connected member	2.49	0	0	0	0.01
	CO321	Connected member	-74.69	0.01	13.19	-10.29	0.03
57	CO321	Connected member	-6.7	0	0.7	-0.72	0.02
	CO322	Main member	-73.57	-0.01	-13.14	-10.12	0.03
	CO322	Connected member	-4.98	0	-0.67	-0.59	0.02
57	CO322	Connected member	2.49	0	0.03	-0.1	0.01
	CO322	Connected member	-71.43	0.01	12.34	-9.76	0.03
	CO322	Connected member	-8.04	0	0.73	-0.84	0.02
57	CO323	Main member	-79.42	-0.01	-14.17	-11.06	0.03
	CO323	Connected member	-7.11	0	-0.7	-0.71	0.02
	CO323	Connected member	2.49	0	0	0	0.01
57	CO323	Connected member	-79.42	0.01	14.17	-11.06	0.03
	CO323	Connected member	-7.11	0	0.7	-0.71	0.02
	CO324	Main member	-78.31	-0.01	-14.12	-10.88	0.03
	CO324	Connected member	-5.39	0	-0.67	-0.59	0.02



::LAV/team::

Page: 125/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO324	Connected member	2.49	0	0.03	-0.1	0.01
	CO324	Connected member	-76.16	0.01	13.32	-10.53	0.03
	CO324	Connected member	-8.45	0	0.73	-0.84	0.02
57	CO325	Main member	-64.55	-0.01	-10.63	-8.29	0.03
	CO325	Connected member	-5.15	0	-0.7	-0.73	0.02
	CO325	Connected member	2.5	0	0	0	0.01
57	CO325	Connected member	-64.55	0.01	10.63	-8.29	0.03
	CO325	Connected member	-5.15	0	0.7	-0.73	0.02
	CO326	Main member	-63.43	-0.01	-10.58	-8.11	0.03
57	CO326	Connected member	-3.44	0	-0.67	-0.6	0.02
	CO326	Connected member	2.5	0	0.03	-0.1	0.01
	CO326	Connected member	-61.28	0.01	9.78	-7.76	0.03
57	CO326	Connected member	-6.5	0	0.72	-0.86	0.02
	CO327	Main member	-94.6	-0.06	-13.46	-10.78	0.21
	CO327	Connected member	7.42	-0.03	-0.71	-0.76	0.27
57	CO327	Connected member	2.52	0.03	0.02	-0.03	0.12
	CO327	Connected member	-74.3	0.1	13.9	-10.81	0.32
	CO327	Connected member	-20.75	0.01	0.7	-0.7	0.14
57	CO328	Main member	-68.7	-0.05	-10.83	-8.01	0.16
	CO328	Connected member	12.78	-0.03	-0.66	-0.59	0.25
	CO328	Connected member	2.51	0.03	0.07	-0.18	0.11
57	CO328	Connected member	-45.65	0.1	10.28	-7.51	0.3
	CO328	Connected member	-19.39	0.01	0.73	-0.91	0.13
	CO329	Main member	-68.04	-0.48	-13.17	-10.22	1.97
57	CO329	Connected member	-7.59	-0.08	-0.7	-0.7	0.7
	CO329	Connected member	2.47	0.03	0	0	0.11
	CO329	Connected member	-68.04	0.48	13.17	-10.22	1.97
57	CO329	Connected member	-7.59	0.08	0.7	-0.7	0.7
	CO330	Main member	-33.4	-0.47	-10.24	-7.32	1.88
	CO330	Connected member	-5.85	-0.07	-0.68	-0.69	0.64
57	CO330	Connected member	2.42	0.02	0	0	0.07
	CO330	Connected member	-33.4	0.47	10.24	-7.32	1.88
	CO330	Connected member	-5.85	0.07	0.68	-0.69	0.64
57	CO331	Main member	-33.13	-0.48	-10.1	-7.76	1.91
	CO331	Connected member	-5.86	-0.07	-0.68	-0.69	0.65
	CO331	Connected member	2.42	0.02	0	0	0.07
57	CO331	Connected member	-33.13	0.48	10.1	-7.76	1.91
	CO331	Connected member	-5.86	0.07	0.68	-0.69	0.65
	CO332	Main member	-4.15	-0.48	-7.27	-5.53	1.86
57	CO332	Connected member	-3.41	-0.06	-0.67	-0.7	0.61
	CO332	Connected member	2.39	0.01	0	0	0.03
	CO332	Connected member	-4.15	0.48	7.27	-5.53	1.86
57	CO332	Connected member	-3.41	0.06	0.67	-0.7	0.61
	CO333	Main member	1.74	-0.43	-7.24	-5.43	1.63
	CO333	Connected member	-5.1	-0.06	-0.67	-0.68	0.62
57	CO333	Connected member	2.36	0.03	0	0	0.12
	CO333	Connected member	1.74	0.43	7.24	-5.43	1.63
	CO333	Connected member	-5.1	0.06	0.67	-0.68	0.62
57	CO334	Main member	-77.58	-0.05	-11.05	-9.24	0.18
	CO334	Connected member	1.55	-0.03	-0.79	-1.15	0.26
	CO334	Connected member	2.51	0.03	-0.08	0.27	0.12
57	CO334	Connected member	-67.03	0.11	13.9	-10.33	0.32
	CO334	Connected member	-12.43	0.01	0.61	-0.33	0.14
	CO335	Main member	-86.63	-0.06	-13.26	-10.01	0.2
57	CO335	Connected member	18.49	-0.04	-0.57	-0.2	0.27
	CO335	Connected member	2.52	0.03	0.17	-0.48	0.12
	CO335	Connected member	-53.91	0.1	10.36	-8.47	0.3
57	CO335	Connected member	-27.76	0.01	0.82	-1.27	0.13
	CO336	Main member	-93.48	-0.06	-13.41	-10.6	0.21
	CO336	Connected member	9.14	-0.03	-0.68	-0.63	0.27
57	CO336	Connected member	2.51	0.03	0.05	-0.13	0.12
	CO336	Connected member	-71.03	0.1	13.05	-10.28	0.31
	CO336	Connected member	-22.09	0.01	0.73	-0.83	0.14
57	CO337	Main member	-67.58	-0.05	-10.78	-7.84	0.17
	CO337	Connected member	14.49	-0.03	-0.63	-0.46	0.25
	CO337	Connected member	2.51	0.03	0.1	-0.28	0.11
57	CO337	Connected member	-42.39	0.1	9.43	-6.99	0.3
	CO337	Connected member	-20.72	0.01	0.76	-1.03	0.13
	CO338	Main member	-66.93	-0.48	-13.12	-10.04	1.97
57	CO338	Connected member	-5.87	-0.08	-0.67	-0.57	0.7
	CO338	Connected member	2.47	0.03	0.03	-0.1	0.1
	CO338	Connected member	-64.78	0.48	12.32	-9.69	1.97
57	CO338	Connected member	-8.93	0.08	0.72	-0.83	0.69
	CO339	Main member	-32.28	-0.47	-10.19	-7.14	1.88
57	CO339	Connected member	-4.14	-0.07	-0.65	-0.57	0.64
	CO339	Connected member	2.42	0.02	0.03	-0.1	0.06
	CO339	Connected member	-30.14	0.47	9.4	-6.79	1.88
57	CO339	Connected member	-7.19	0.07	0.71	-0.82	0.64
	CO340	Main member	-32.01	-0.48	-10.05	-7.58	1.91
	CO340	Connected member	-4.14	-0.07	-0.65	-0.57	0.65
57	CO340	Connected member	2.42	0.02	0.03	-0.1	0.07
	CO340	Connected member	-29.87	0.48	9.26	-7.23	1.91
	CO340	Connected member	-7.19	0.07	0.71	-0.82	0.65
57	CO341	Main member	-3.03	-0.48	-7.22	-5.35	1.86
	CO341	Connected member	-1.69	-0.06	-0.64	-0.58	0.61
	CO341	Connected member	2.39	0.01	0.03	-0.1	0.03
57	CO341	Connected member	-0.89	0.48	6.42	-5.01	1.86
	CO341	Connected member	-4.74	0.06	0.7	-0.83	0.6
	CO342	Main member	2.86	-0.43	-7.18	-5.26	1.63
57	CO342	Connected member	-3.39	-0.06	-0.64	-0.55	0.62
	CO342	Connected member	2.36	0.03	0.03	-0.1	0.11
	CO342	Connected member	5	0.43	6.39	-4.91	1.63
57	CO342	Connected member	-6.44	0.06	0.69	-0.8	0.62
	CO343	Main member	-76.46	-0.05	-11	-9.06	0.18



::LAV/team::

Page: 126/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO343	Connected member	3.26	-0.03	-0.76	-1.02	0.26
	CO343	Connected member	2.51	0.03	-0.05	0.18	0.12
	CO343	Connected member	-63.77	0.11	13.05	-9.8	0.32
	CO343	Connected member	-13.77	0.01	0.64	-0.46	0.14
57	CO344	Main member	-85.51	-0.06	-13.21	-9.84	0.2
	CO344	Connected member	20.2	-0.04	-0.54	-0.08	0.27
	CO344	Connected member	2.51	0.03	0.21	-0.58	0.12
	CO344	Connected member	-50.65	0.09	9.52	-7.94	0.3
57	CO344	Connected member	-29.09	0.01	0.84	-1.39	0.13
	CO345	Main member	-99.34	-0.06	-14.43	-11.55	0.21
	CO345	Connected member	7.01	-0.03	-0.71	-0.76	0.27
	CO345	Connected member	2.52	0.03	0.02	-0.03	0.12
57	CO345	Connected member	-79.03	0.1	14.87	-11.58	0.32
	CO345	Connected member	-21.16	0.01	0.7	-0.7	0.14
	CO346	Main member	-73.43	-0.05	-11.8	-8.78	0.17
	CO346	Connected member	12.37	-0.03	-0.66	-0.58	0.25
57	CO346	Connected member	2.51	0.03	0.07	-0.18	0.11
	CO346	Connected member	-50.38	0.1	11.25	-8.28	0.3
	CO346	Connected member	-19.8	0.01	0.74	-0.91	0.13
	CO347	Main member	-72.78	-0.47	-14.14	-10.99	1.98
57	CO347	Connected member	-8	-0.08	-0.7	-0.7	0.71
	CO347	Connected member	2.47	0.03	0	0	0.11
	CO347	Connected member	-72.78	0.47	14.14	-10.99	1.98
	CO347	Connected member	-8	0.08	0.7	-0.7	0.71
57	CO348	Main member	-38.13	-0.46	-11.21	-8.08	1.89
	CO348	Connected member	-6.26	-0.07	-0.68	-0.69	0.65
	CO348	Connected member	2.42	0.02	0	0	0.07
	CO348	Connected member	-38.13	0.46	11.21	-8.08	1.89
57	CO348	Connected member	-6.26	0.07	0.68	-0.69	0.65
	CO349	Main member	-37.86	-0.48	-11.07	-8.52	1.92
	CO349	Connected member	-6.26	-0.07	-0.68	-0.69	0.66
	CO349	Connected member	2.42	0.02	0	0	0.08
57	CO349	Connected member	-37.86	0.48	11.07	-8.52	1.92
	CO349	Connected member	-6.26	0.07	0.68	-0.69	0.66
	CO350	Main member	-8.87	-0.48	-8.23	-6.29	1.87
	CO350	Connected member	-3.82	-0.06	-0.67	-0.7	0.61
57	CO350	Connected member	2.39	0.01	0	0	0.04
	CO350	Connected member	-8.87	0.48	8.23	-6.29	1.87
	CO350	Connected member	-3.82	0.06	0.67	-0.7	0.61
	CO351	Main member	-2.98	-0.43	-8.2	-6.19	1.64
57	CO351	Connected member	-5.51	-0.06	-0.67	-0.67	0.63
	CO351	Connected member	2.36	0.03	0	0	0.12
	CO351	Connected member	-2.98	0.43	8.2	-6.19	1.64
	CO351	Connected member	-5.51	0.06	0.67	-0.67	0.63
57	CO352	Main member	-82.31	-0.05	-12.02	-10	0.18
	CO352	Connected member	1.14	-0.03	-0.79	-1.15	0.26
	CO352	Connected member	2.51	0.03	-0.08	0.27	0.12
	CO352	Connected member	-71.76	0.11	14.87	-11.1	0.32
57	CO352	Connected member	-12.84	0.01	0.62	-0.33	0.14
	CO353	Main member	-91.36	-0.06	-14.23	-10.78	0.2
	CO353	Connected member	18.08	-0.04	-0.57	-0.2	0.27
	CO353	Connected member	2.52	0.03	0.17	-0.48	0.12
57	CO353	Connected member	-58.64	0.1	11.33	-9.23	0.3
	CO353	Connected member	-28.17	0.01	0.82	-1.27	0.13
	CO354	Main member	-98.22	-0.06	-14.39	-11.37	0.21
	CO354	Connected member	8.73	-0.03	-0.68	-0.63	0.27
57	CO354	Connected member	2.52	0.03	0.05	-0.13	0.12
	CO354	Connected member	-75.76	0.1	14.02	-11.05	0.31
	CO354	Connected member	-22.5	0.01	0.73	-0.82	0.14
	CO355	Main member	-72.31	-0.05	-11.75	-8.6	0.17
57	CO355	Connected member	14.09	-0.03	-0.63	-0.46	0.25
	CO355	Connected member	2.51	0.03	0.1	-0.28	0.11
	CO355	Connected member	-47.12	0.1	10.4	-7.75	0.3
	CO355	Connected member	-21.14	0.01	0.76	-1.03	0.13
57	CO356	Main member	-71.66	-0.47	-14.09	-10.81	1.97
	CO356	Connected member	-6.28	-0.08	-0.67	-0.57	0.7
	CO356	Connected member	2.47	0.03	0.03	-0.1	0.11
	CO356	Connected member	-69.51	0.48	13.29	-10.46	1.97
57	CO356	Connected member	-9.34	0.08	0.73	-0.82	0.7
	CO357	Main member	-37.01	-0.46	-11.16	-7.9	1.89
	CO357	Connected member	-4.55	-0.07	-0.66	-0.57	0.65
	CO357	Connected member	2.42	0.02	0.03	-0.1	0.07
57	CO357	Connected member	-34.87	0.47	10.36	-7.55	1.88
	CO357	Connected member	-7.6	0.07	0.71	-0.82	0.64
	CO358	Main member	-36.74	-0.48	-11.02	-8.34	1.92
	CO358	Connected member	-4.55	-0.07	-0.65	-0.57	0.66
57	CO358	Connected member	2.42	0.02	0.03	-0.1	0.07
	CO358	Connected member	-34.6	0.48	10.22	-7.99	1.92
	CO358	Connected member	-7.6	0.07	0.71	-0.82	0.65
	CO359	Main member	-7.76	-0.48	-8.18	-6.11	1.86
57	CO359	Connected member	-2.1	-0.06	-0.64	-0.58	0.61
	CO359	Connected member	2.39	0.01	0.03	-0.1	0.03
	CO359	Connected member	-5.62	0.48	7.39	-5.76	1.86
	CO359	Connected member	-5.15	0.06	0.7	-0.83	0.61
57	CO360	Main member	-1.87	-0.43	-8.15	-6.01	1.64
	CO360	Connected member	-3.79	-0.06	-0.64	-0.55	0.63
	CO360	Connected member	2.36	0.03	0.03	-0.1	0.12
	CO360	Connected member	0.27	0.43	7.36	-5.67	1.64
57	CO360	Connected member	-6.85	0.06	0.7	-0.8	0.63
	CO361	Main member	-81.19	-0.05	-11.97	-9.82	0.18
	CO361	Connected member	2.86	-0.03	-0.76	-1.02	0.26
	CO361	Connected member	2.51	0.03	-0.05	0.18	0.12
	CO361	Connected member	-68.5	0.11	14.02	-10.57	0.32
	CO361	Connected member	-14.18	0.01	0.64	-0.45	0.14



::LAV/team::

Page: 127/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO362	Main member	-90.24	-0.06	-14.18	-10.6	0.2
	CO362	Connected member	19.8	-0.04	-0.54	-0.07	0.27
	CO362	Connected member	2.52	0.03	0.21	-0.58	0.12
	CO362	Connected member	-55.38	0.1	10.49	-8.7	0.3
57	CO362	Connected member	-29.51	0.01	0.84	-1.39	0.13
	CO363	Main member	-84.45	-0.06	-10.89	-8.77	0.2
	CO363	Connected member	8.96	-0.03	-0.71	-0.77	0.27
	CO363	Connected member	2.52	0.03	0.02	-0.03	0.12
57	CO363	Connected member	-64.16	0.1	11.33	-8.8	0.31
	CO363	Connected member	-19.2	0.01	0.7	-0.71	0.14
	CO364	Main member	-58.55	-0.04	-8.26	-6.01	0.16
	CO364	Connected member	14.31	-0.03	-0.66	-0.6	0.25
57	CO364	Connected member	2.52	0.02	0.07	-0.18	0.11
	CO364	Connected member	-35.52	0.1	7.72	-5.52	0.3
	CO364	Connected member	-17.83	0.01	0.73	-0.92	0.13
	CO365	Main member	-57.9	-0.48	-10.6	-8.22	1.97
57	CO365	Connected member	-6.04	-0.08	-0.69	-0.71	0.68
	CO365	Connected member	2.47	0.03	0	0	0.09
	CO365	Connected member	-57.9	0.48	10.6	-8.22	1.97
	CO365	Connected member	-6.04	0.08	0.69	-0.71	0.68
57	CO366	Main member	-23.27	-0.47	-7.68	-5.32	1.88
	CO366	Connected member	-4.31	-0.07	-0.68	-0.71	0.62
	CO366	Connected member	2.43	0.02	0	0	0.05
	CO366	Connected member	-23.27	0.47	7.68	-5.32	1.88
57	CO366	Connected member	-4.31	0.07	0.68	-0.71	0.62
	CO367	Main member	-22.99	-0.49	-7.54	-5.77	1.91
	CO367	Connected member	-4.31	-0.07	-0.68	-0.71	0.64
	CO367	Connected member	2.42	0.02	0	0	0.05
57	CO367	Connected member	-22.99	0.49	7.54	-5.77	1.91
	CO367	Connected member	-4.31	0.07	0.68	-0.71	0.64
	CO368	Main member	5.98	-0.48	-4.71	-3.55	1.86
	CO368	Connected member	-1.86	-0.06	-0.67	-0.72	0.59
57	CO368	Connected member	2.4	0.01	0	0	0.01
	CO368	Connected member	5.98	0.48	4.71	-3.55	1.86
	CO368	Connected member	-1.86	0.06	0.67	-0.72	0.59
	CO369	Main member	11.87	-0.43	-4.68	-3.45	1.63
57	CO369	Connected member	-3.56	-0.06	-0.67	-0.69	0.61
	CO369	Connected member	2.36	0.03	0	0	0.1
	CO369	Connected member	11.87	0.43	4.68	-3.45	1.63
	CO369	Connected member	-3.56	0.06	0.67	-0.69	0.61
57	CO370	Main member	-67.43	-0.05	-8.49	-7.23	0.17
	CO370	Connected member	3.08	-0.03	-0.79	-1.16	0.26
	CO370	Connected member	2.52	0.03	-0.08	0.27	0.12
	CO370	Connected member	-56.9	0.1	11.33	-8.32	0.32
57	CO370	Connected member	-10.87	0.01	0.61	-0.34	0.14
	CO371	Main member	-76.48	-0.06	-10.69	-8	0.19
	CO371	Connected member	20.02	-0.04	-0.57	-0.22	0.27
	CO371	Connected member	2.52	0.03	0.17	-0.48	0.12
57	CO371	Connected member	-43.78	0.09	7.8	-6.46	0.3
	CO371	Connected member	-26.2	0.01	0.81	-1.28	0.13
	CO372	Main member	-83.33	-0.06	-10.85	-8.59	0.2
	CO372	Connected member	10.67	-0.03	-0.68	-0.65	0.27
57	CO372	Connected member	2.52	0.03	0.05	-0.13	0.12
	CO372	Connected member	-60.9	0.1	10.48	-8.27	0.31
	CO372	Connected member	-20.54	0.01	0.73	-0.84	0.14
	CO373	Main member	-57.43	-0.04	-8.21	-5.84	0.16
57	CO373	Connected member	16.03	-0.03	-0.63	-0.48	0.25
	CO373	Connected member	2.52	0.02	0.1	-0.28	0.11
	CO373	Connected member	-32.26	0.1	6.87	-4.99	0.3
	CO373	Connected member	-19.17	0.01	0.76	-1.04	0.13
57	CO374	Main member	-56.79	-0.48	-10.55	-8.04	1.96
	CO374	Connected member	-4.32	-0.08	-0.67	-0.59	0.68
	CO374	Connected member	2.47	0.03	0.03	-0.1	0.08
	CO374	Connected member	-54.64	0.48	9.75	-7.69	1.96
57	CO374	Connected member	-7.38	0.07	0.72	-0.84	0.68
	CO375	Main member	-22.15	-0.47	-7.63	-5.15	1.87
	CO375	Connected member	-2.59	-0.07	-0.65	-0.58	0.62
	CO375	Connected member	2.43	0.02	0.03	-0.1	0.05
57	CO375	Connected member	-20.01	0.47	6.84	-4.8	1.87
	CO375	Connected member	-5.65	0.06	0.71	-0.83	0.62
	CO376	Main member	-21.87	-0.49	-7.49	-5.59	1.91
	CO376	Connected member	-2.59	-0.07	-0.65	-0.58	0.63
57	CO376	Connected member	2.42	0.02	0.03	-0.1	0.05
	CO376	Connected member	-19.73	0.49	6.7	-5.24	1.91
	CO376	Connected member	-5.65	0.07	0.71	-0.83	0.63
	CO377	Main member	7.1	-0.48	-4.66	-3.37	1.85
57	CO377	Connected member	-0.14	-0.06	-0.64	-0.59	0.59
	CO377	Connected member	2.4	0.01	0.03	-0.1	0.01
	CO377	Connected member	9.24	0.49	3.87	-3.02	1.85
	CO377	Connected member	-3.2	0.06	0.7	-0.84	0.58
57	CO378	Main member	12.99	-0.43	-4.63	-3.28	1.63
	CO378	Connected member	-1.84	-0.06	-0.64	-0.57	0.61
	CO378	Connected member	2.36	0.03	0.03	-0.1	0.1
	CO378	Connected member	15.13	0.43	3.84	-2.93	1.63
57	CO378	Connected member	-4.89	0.06	0.69	-0.81	0.61
	CO379	Main member	-66.31	-0.05	-8.44	-7.05	0.17
	CO379	Connected member	4.8	-0.03	-0.76	-1.04	0.26
	CO379	Connected member	2.52	0.03	-0.05	0.18	0.12
57	CO379	Connected member	-53.64	0.1	10.48	-7.79	0.32
	CO379	Connected member	-12.21	0.01	0.64	-0.47	0.14
	CO380	Main member	-75.36	-0.06	-10.64	-7.83	0.19
	CO380	Connected member	21.74	-0.04	-0.54	-0.09	0.27
57	CO380	Connected member	2.52	0.03	0.21	-0.58	0.12
	CO380	Connected member	-40.52	0.09	6.96	-5.94	0.29



::LAV/team::

Page: 128/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO380	Connected member	-27.54	0.01	0.84	-1.4	0.13
	CO381	Main member	-85.83	-0.06	-11.66	-9.36	0.2
	CO381	Connected member	8.17	-0.03	-0.71	-0.77	0.27
	CO381	Connected member	2.51	0.03	0.02	-0.03	0.12
	CO381	Connected member	-65.54	0.1	12.1	-9.39	0.31
57	CO381	Connected member	-19.99	0.01	0.7	-0.7	0.14
	CO382	Main member	-59.93	-0.04	-9.03	-6.6	0.16
	CO382	Connected member	13.53	-0.03	-0.65	-0.59	0.25
	CO382	Connected member	2.51	0.03	0.07	-0.18	0.11
	CO382	Connected member	-36.9	0.1	8.49	-6.1	0.3
57	CO382	Connected member	-18.62	0.01	0.73	-0.91	0.13
	CO383	Main member	-59.28	-0.48	-11.37	-8.81	1.96
	CO383	Connected member	-6.83	-0.08	-0.69	-0.7	0.69
	CO383	Connected member	2.46	0.03	0	0	0.1
	CO383	Connected member	-59.28	0.48	11.37	-8.81	1.96
57	CO383	Connected member	-6.83	0.08	0.69	-0.7	0.69
	CO384	Main member	-24.64	-0.47	-8.45	-5.91	1.88
	CO384	Connected member	-5.1	-0.07	-0.68	-0.7	0.63
	CO384	Connected member	2.42	0.02	0	0	0.06
	CO384	Connected member	-24.64	0.47	8.45	-5.91	1.88
57	CO384	Connected member	-5.1	0.07	0.68	-0.7	0.63
	CO385	Main member	-24.37	-0.48	-8.31	-6.35	1.91
	CO385	Connected member	-5.1	-0.07	-0.68	-0.7	0.64
	CO385	Connected member	2.41	0.02	0	0	0.06
	CO385	Connected member	-24.37	0.48	8.31	-6.35	1.91
57	CO385	Connected member	-5.1	0.07	0.68	-0.7	0.64
	CO386	Main member	4.61	-0.48	-5.48	-4.13	1.85
	CO386	Connected member	-2.65	-0.06	-0.67	-0.71	0.59
	CO386	Connected member	2.39	0.01	0	0	0.02
	CO386	Connected member	4.61	0.48	5.48	-4.13	1.85
57	CO386	Connected member	-2.65	0.06	0.67	-0.71	0.59
	CO387	Main member	10.49	-0.43	-5.45	-4.04	1.63
	CO387	Connected member	-4.35	-0.06	-0.67	-0.68	0.62
	CO387	Connected member	2.35	0.03	0	0	0.11
	CO387	Connected member	10.49	0.43	5.45	-4.04	1.63
57	CO387	Connected member	-4.35	0.06	0.67	-0.68	0.62
	CO388	Main member	-68.81	-0.05	-9.26	-7.82	0.17
	CO388	Connected member	2.3	-0.03	-0.79	-1.15	0.26
	CO388	Connected member	2.51	0.03	-0.08	0.27	0.12
	CO388	Connected member	-58.28	0.11	12.1	-8.91	0.32
57	CO388	Connected member	-11.67	0.01	0.61	-0.33	0.14
	CO389	Main member	-77.86	-0.06	-11.46	-8.59	0.2
	CO389	Connected member	19.23	-0.04	-0.57	-0.21	0.27
	CO389	Connected member	2.51	0.03	0.17	-0.48	0.12
	CO389	Connected member	-45.16	0.09	8.57	-7.05	0.3
57	CO389	Connected member	-26.99	0.01	0.81	-1.27	0.13
	CO390	Main member	-90.57	-0.06	-12.63	-10.13	0.2
	CO390	Connected member	7.76	-0.03	-0.71	-0.76	0.27
	CO390	Connected member	2.51	0.03	0.02	-0.03	0.12
	CO390	Connected member	-70.27	0.1	13.07	-10.15	0.31
57	CO390	Connected member	-20.4	0.01	0.7	-0.7	0.14
	CO391	Main member	-64.66	-0.05	-10	-7.36	0.16
	CO391	Connected member	13.12	-0.03	-0.66	-0.59	0.25
	CO391	Connected member	2.51	0.03	0.07	-0.18	0.11
	CO391	Connected member	-41.63	0.1	9.45	-6.86	0.3
57	CO391	Connected member	-19.03	0.01	0.73	-0.91	0.13
	CO392	Main member	-64.01	-0.48	-12.34	-9.57	1.97
	CO392	Connected member	-7.24	-0.08	-0.7	-0.7	0.69
	CO392	Connected member	2.46	0.03	0	0	0.1
	CO392	Connected member	-64.01	0.48	12.34	-9.57	1.97
57	CO392	Connected member	-7.24	0.08	0.7	-0.7	0.69
	CO393	Main member	-29.37	-0.47	-9.42	-6.67	1.88
	CO393	Connected member	-5.51	-0.07	-0.68	-0.7	0.64
	CO393	Connected member	2.42	0.02	0	0	0.06
	CO393	Connected member	-29.37	0.47	9.42	-6.67	1.88
57	CO393	Connected member	-5.51	0.07	0.68	-0.7	0.64
	CO394	Main member	-29.1	-0.48	-9.28	-7.11	1.91
	CO394	Connected member	-5.51	-0.07	-0.68	-0.7	0.65
	CO394	Connected member	2.42	0.02	0	0	0.07
	CO394	Connected member	-29.1	0.48	9.28	-7.11	1.91
57	CO394	Connected member	-5.51	0.07	0.68	-0.7	0.65
	CO395	Main member	-0.12	-0.48	-6.44	-4.88	1.86
	CO395	Connected member	-3.06	-0.06	-0.67	-0.71	0.6
	CO395	Connected member	2.39	0.01	0	0	0.02
	CO395	Connected member	-0.12	0.48	6.44	-4.88	1.86
57	CO395	Connected member	-3.06	0.06	0.67	-0.71	0.6
	CO396	Main member	5.77	-0.43	-6.41	-4.79	1.63
	CO396	Connected member	-4.75	-0.06	-0.67	-0.68	0.62
	CO396	Connected member	2.36	0.03	0	0	0.11
	CO396	Connected member	5.77	0.43	6.41	-4.79	1.63
57	CO396	Connected member	-4.75	0.06	0.67	-0.68	0.62
	CO397	Main member	-73.55	-0.05	-10.22	-8.58	0.18
	CO397	Connected member	1.89	-0.03	-0.79	-1.15	0.26
	CO397	Connected member	2.51	0.03	-0.08	0.27	0.12
	CO397	Connected member	-63.01	0.11	13.07	-9.68	0.32
57	CO397	Connected member	-12.08	0.01	0.61	-0.33	0.14
	CO398	Main member	-82.59	-0.06	-12.43	-9.36	0.2
	CO398	Connected member	18.83	-0.04	-0.57	-0.2	0.27
	CO398	Connected member	2.51	0.03	0.17	-0.48	0.12
	CO398	Connected member	-49.89	0.1	9.54	-7.82	0.3
57	CO398	Connected member	-27.4	0.01	0.81	-1.27	0.13
	CO399	Main member	-75.68	-0.06	-9.1	-7.35	0.2
	CO399	Connected member	9.71	-0.03	-0.71	-0.78	0.27
	CO399	Connected member	2.52	0.03	0.02	-0.03	0.12



::LAVteam::

Page: 129/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO399	Connected member	-55.4	0.1	9.54	-7.38	0.31
	CO399	Connected member	-18.43	0.01	0.7	-0.72	0.14
	CO400	Main member	-49.78	-0.04	-6.47	-4.6	0.16
	CO400	Connected member	15.06	-0.03	-0.65	-0.61	0.25
57	CO400	Connected member	2.51	0.02	0.07	-0.18	0.11
	CO400	Connected member	-26.77	0.1	5.93	-4.11	0.3
	CO400	Connected member	-17.06	0.01	0.73	-0.92	0.13
	CO401	Main member	-49.14	-0.49	-8.81	-6.8	1.96
57	CO401	Connected member	-5.28	-0.07	-0.69	-0.72	0.67
	CO401	Connected member	2.47	0.02	0	0	0.08
	CO401	Connected member	-49.14	0.49	8.81	-6.8	1.96
	CO401	Connected member	-5.28	0.07	0.69	-0.72	0.67
57	CO402	Main member	-14.51	-0.48	-5.89	-3.92	1.87
	CO402	Connected member	-3.55	-0.06	-0.68	-0.71	0.61
	CO402	Connected member	2.42	0.01	0	0	0.04
	CO402	Connected member	-14.51	0.48	5.89	-3.92	1.87
57	CO402	Connected member	-3.55	0.06	0.68	-0.71	0.61
	CO403	Main member	-14.24	-0.49	-5.75	-4.36	1.9
	CO403	Connected member	-3.55	-0.07	-0.68	-0.71	0.62
	CO403	Connected member	2.42	0.02	0	0	0.04
57	CO403	Connected member	-14.24	0.49	5.75	-4.36	1.9
	CO403	Connected member	-3.55	0.07	0.68	-0.71	0.62
	CO404	Main member	14.73	-0.49	-2.93	-2.15	1.85
	CO404	Connected member	-1.1	-0.06	-0.67	-0.72	0.58
57	CO404	Connected member	2.39	0.01	0	0	0
	CO404	Connected member	14.73	0.49	2.93	-2.15	1.85
	CO404	Connected member	-1.1	0.06	0.67	-0.72	0.58
	CO405	Main member	20.62	-0.44	-2.89	-2.06	1.62
57	CO405	Connected member	-2.8	-0.06	-0.66	-0.69	0.6
	CO405	Connected member	2.36	0.02	0	0	0.09
	CO405	Connected member	20.62	0.44	2.89	-2.06	1.62
	CO405	Connected member	-2.8	0.06	0.66	-0.69	0.6
57	CO406	Main member	-58.66	-0.05	-6.7	-5.82	0.17
	CO406	Connected member	3.84	-0.03	-0.79	-1.17	0.25
	CO406	Connected member	2.51	0.03	-0.08	0.27	0.11
	CO406	Connected member	-48.14	0.1	9.53	-6.91	0.31
57	CO406	Connected member	-10.11	0.01	0.61	-0.35	0.14
	CO407	Main member	-67.71	-0.06	-8.9	-6.59	0.19
	CO407	Connected member	20.77	-0.04	-0.57	-0.22	0.27
	CO407	Connected member	2.52	0.03	0.17	-0.48	0.11
57	CO407	Connected member	-35.03	0.09	6.01	-5.05	0.29
	CO407	Connected member	-25.43	0.01	0.81	-1.28	0.13
	CO408	Main member	-59.82	-0.01	-9.66	-7.52	0.03
	CO408	Connected member	-4.75	0	-0.7	-0.73	0.02
57	CO408	Connected member	2.49	0	0	0	0.01
	CO408	Connected member	-59.82	0.01	9.66	-7.52	0.03
	CO408	Connected member	-4.75	0	0.7	-0.73	0.02
	CO409	Main member	-58.7	-0.01	-9.61	-7.34	0.03
57	CO409	Connected member	-3.03	0	-0.67	-0.61	0.01
	CO409	Connected member	2.49	0	0.03	-0.1	0.01
	CO409	Connected member	-56.55	0.01	8.81	-6.99	0.02
	CO409	Connected member	-6.09	0	0.72	-0.86	0.01
57	CO410	Main member	-79.71	-0.06	-9.92	-8	0.2
	CO410	Connected member	9.36	-0.03	-0.71	-0.78	0.27
	CO410	Connected member	2.52	0.03	0.02	-0.03	0.12
	CO410	Connected member	-59.43	0.1	10.36	-8.03	0.31
57	CO410	Connected member	-18.78	0.01	0.7	-0.71	0.14
	CO411	Main member	-53.81	-0.04	-7.3	-5.25	0.16
	CO411	Connected member	14.72	-0.03	-0.65	-0.61	0.25
	CO411	Connected member	2.52	0.02	0.07	-0.18	0.11
57	CO411	Connected member	-30.79	0.1	6.75	-4.76	0.3
	CO411	Connected member	-17.42	0.01	0.73	-0.92	0.13
	CO412	Main member	-53.17	-0.48	-9.63	-7.45	1.96
	CO412	Connected member	-5.63	-0.07	-0.69	-0.71	0.67
57	CO412	Connected member	2.47	0.02	0	0	0.08
	CO412	Connected member	-53.17	0.48	9.63	-7.45	1.96
	CO412	Connected member	-5.63	0.07	0.69	-0.71	0.67
	CO413	Main member	-18.54	-0.47	-6.71	-4.57	1.87
57	CO413	Connected member	-3.9	-0.06	-0.68	-0.71	0.62
	CO413	Connected member	2.43	0.02	0	0	0.04
	CO413	Connected member	-18.54	0.47	6.71	-4.57	1.87
	CO413	Connected member	-3.9	0.06	0.68	-0.71	0.62
57	CO414	Main member	-18.26	-0.49	-6.57	-5.01	1.9
	CO414	Connected member	-3.9	-0.07	-0.68	-0.71	0.63
	CO414	Connected member	2.42	0.02	0	0	0.05
	CO414	Connected member	-18.26	0.49	6.57	-5.01	1.9
57	CO414	Connected member	-3.9	0.07	0.68	-0.71	0.63
	CO415	Main member	10.71	-0.49	-3.75	-2.79	1.85
	CO415	Connected member	-1.45	-0.06	-0.67	-0.72	0.58
	CO415	Connected member	2.4	0.01	0	0	0
57	CO415	Connected member	10.71	0.49	3.75	-2.79	1.85
	CO415	Connected member	-1.45	0.06	0.67	-0.72	0.58
	CO416	Main member	16.6	-0.43	-3.72	-2.7	1.63
	CO416	Connected member	-3.15	-0.06	-0.66	-0.69	0.61
57	CO416	Connected member	2.36	0.03	0	0	0.09
	CO416	Connected member	16.6	0.43	3.72	-2.7	1.63
	CO416	Connected member	-3.15	0.06	0.66	-0.69	0.61
	CO417	Main member	-62.7	-0.05	-7.52	-6.47	0.17
57	CO417	Connected member	3.49	-0.03	-0.79	-1.16	0.25
	CO417	Connected member	2.51	0.03	-0.08	0.27	0.11
	CO417	Connected member	-52.17	0.1	10.36	-7.56	0.32
	CO417	Connected member	-10.46	0.01	0.61	-0.34	0.14
57	CO418	Main member	-71.74	-0.06	-9.72	-7.24	0.19
	CO418	Connected member	20.42	-0.04	-0.57	-0.22	0.27



::LAV/team::

Page: 130/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO418	Connected member	2.52	0.03	0.17	-0.48	0.12
	CO418	Connected member	-39.05	0.09	6.84	-5.7	0.29
	CO418	Connected member	-25.78	0.01	0.81	-1.28	0.13
57	CO419	Main member	-78.6	-0.06	-9.88	-7.82	0.2
	CO419	Connected member	11.08	-0.03	-0.68	-0.65	0.27
	CO419	Connected member	2.52	0.03	0.05	-0.13	0.12
57	CO419	Connected member	-56.17	0.1	9.51	-7.5	0.31
	CO419	Connected member	-20.12	0.01	0.72	-0.84	0.14
	CO420	Main member	-52.7	-0.04	-7.25	-5.07	0.16
57	CO420	Connected member	16.43	-0.03	-0.62	-0.48	0.25
	CO420	Connected member	2.51	0.02	0.1	-0.27	0.11
	CO420	Connected member	-27.53	0.1	5.91	-4.23	0.3
57	CO420	Connected member	-18.75	0.01	0.76	-1.05	0.13
	CO421	Main member	-52.05	-0.48	-9.58	-7.27	1.96
	CO421	Connected member	-3.91	-0.07	-0.66	-0.59	0.67
57	CO421	Connected member	2.47	0.02	0.03	-0.1	0.08
	CO421	Connected member	-49.91	0.49	8.78	-6.93	1.96
	CO421	Connected member	-6.97	0.07	0.72	-0.84	0.67
57	CO422	Main member	-17.42	-0.48	-6.66	-4.39	1.87
	CO422	Connected member	-2.18	-0.07	-0.65	-0.59	0.62
	CO422	Connected member	2.42	0.01	0.03	-0.1	0.04
57	CO422	Connected member	-15.28	0.48	5.87	-4.04	1.87
	CO422	Connected member	-5.24	0.06	0.71	-0.84	0.61
	CO423	Main member	-17.15	-0.49	-6.52	-4.83	1.9
57	CO423	Connected member	-2.18	-0.07	-0.65	-0.59	0.63
	CO423	Connected member	2.42	0.02	0.03	-0.1	0.04
	CO423	Connected member	-15	0.49	5.73	-4.48	1.9
57	CO423	Connected member	-5.24	0.06	0.71	-0.83	0.62
	CO424	Main member	11.83	-0.49	-3.7	-2.61	1.85
	CO424	Connected member	0.26	-0.06	-0.64	-0.6	0.58
57	CO424	Connected member	2.39	0.01	0.03	-0.1	0
	CO424	Connected member	13.97	0.49	2.91	-2.27	1.85
	CO424	Connected member	-2.79	0.06	0.7	-0.84	0.58
57	CO425	Main member	17.71	-0.44	-3.66	-2.52	1.62
	CO425	Connected member	-1.43	-0.06	-0.64	-0.57	0.6
	CO425	Connected member	2.36	0.02	0.03	-0.1	0.09
57	CO425	Connected member	19.85	0.44	2.88	-2.18	1.62
	CO425	Connected member	-4.48	0.06	0.69	-0.82	0.6
	CO426	Main member	-61.58	-0.05	-7.47	-6.29	0.17
57	CO426	Connected member	5.21	-0.03	-0.76	-1.04	0.25
	CO426	Connected member	2.51	0.03	-0.05	0.18	0.11
	CO426	Connected member	-48.91	0.1	9.51	-7.03	0.31
57	CO426	Connected member	-11.8	0.01	0.64	-0.47	0.14
	CO427	Main member	-70.62	-0.06	-9.67	-7.06	0.19
57	CO427	Connected member	22.14	-0.04	-0.54	-0.1	0.27
	CO427	Connected member	2.52	0.03	0.21	-0.58	0.11
	CO427	Connected member	-35.79	0.09	5.99	-5.18	0.29
57	CO427	Connected member	-27.12	0.01	0.84	-1.4	0.13
	CO428	Main member	-70.95	-0.06	-8.13	-6.59	0.2
57	CO428	Connected member	10.11	-0.03	-0.7	-0.78	0.27
	CO428	Connected member	2.52	0.03	0.02	-0.03	0.12
	CO428	Connected member	-50.67	0.1	8.57	-6.62	0.31
57	CO428	Connected member	-18.02	0.01	0.69	-0.72	0.14
	CO429	Main member	-45.05	-0.04	-5.5	-3.84	0.16
57	CO429	Connected member	15.46	-0.03	-0.65	-0.61	0.25
	CO429	Connected member	2.51	0.02	0.07	-0.18	0.11
	CO429	Connected member	-22.04	0.1	4.96	-3.35	0.29
57	CO429	Connected member	-16.65	0.01	0.73	-0.92	0.13
	CO430	Main member	-44.41	-0.49	-7.84	-6.04	1.95
57	CO430	Connected member	-4.87	-0.07	-0.69	-0.72	0.66
	CO430	Connected member	2.47	0.02	0	0	0.07
	CO430	Connected member	-44.41	0.49	7.84	-6.04	1.95
57	CO430	Connected member	-4.87	0.07	0.69	-0.72	0.66
	CO431	Main member	-9.78	-0.48	-4.92	-3.16	1.86
57	CO431	Connected member	-3.14	-0.06	-0.68	-0.71	0.61
	CO431	Connected member	2.42	0.01	0	0	0.03
	CO431	Connected member	-9.78	0.48	4.92	-3.16	1.86
57	CO431	Connected member	-3.14	0.06	0.68	-0.71	0.61
	CO432	Main member	-9.51	-0.49	-4.78	-3.61	1.9
57	CO432	Connected member	-3.14	-0.06	-0.68	-0.71	0.62
	CO432	Connected member	2.42	0.01	0	0	0.03
	CO432	Connected member	-9.51	0.49	4.78	-3.61	1.9
57	CO432	Connected member	-3.14	0.06	0.68	-0.71	0.62
	CO433	Main member	19.46	-0.49	-1.96	-1.4	1.84
57	CO433	Connected member	-0.7	-0.06	-0.67	-0.72	0.57
	CO433	Connected member	2.39	0	0	0	-0.01
	CO433	Connected member	19.46	0.49	1.96	-1.4	1.84
57	CO433	Connected member	-0.7	0.06	0.67	-0.72	0.57
	CO434	Main member	25.35	-0.44	-1.93	-1.31	1.62
57	CO434	Connected member	-2.39	-0.06	-0.66	-0.7	0.6
	CO434	Connected member	2.36	0.02	0	0	0.08
	CO434	Connected member	25.35	0.44	1.93	-1.31	1.62
57	CO434	Connected member	-2.39	0.06	0.66	-0.7	0.6
	CO435	Main member	-53.93	-0.05	-5.73	-5.06	0.17
57	CO435	Connected member	4.24	-0.03	-0.79	-1.17	0.25
	CO435	Connected member	2.51	0.03	-0.08	0.27	0.11
	CO435	Connected member	-43.41	0.1	8.56	-6.14	0.31
57	CO435	Connected member	-9.7	0.01	0.61	-0.35	0.14
	CO436	Main member	-62.97	-0.06	-7.93	-5.83	0.19
57	CO436	Connected member	21.17	-0.04	-0.57	-0.23	0.27
	CO436	Connected member	2.52	0.03	0.17	-0.48	0.11
	CO436	Connected member	-30.3	0.09	5.04	-4.29	0.29
57	CO436	Connected member	-25.02	0.01	0.81	-1.28	0.13
	CO437	Main member	-33.53	-0.01	-4.28	-3.29	0.02



::LAV/team::

Page: 131/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO437	Connected member	-2.48	0	-0.69	-0.74	0.01
	CO437	Connected member	2.48	0	0	0	0.01
	CO437	Connected member	-33.53	0.01	4.28	-3.29	0.02
57	CO437	Connected member	-2.48	0	0.69	-0.74	0.01
	CO438	Main member	-31.3	-0.01	-4.18	-2.94	0.02
	CO438	Connected member	0.96	0	-0.63	-0.5	0.01
57	CO438	Connected member	2.48	0	0.06	-0.19	0.01
	CO438	Connected member	-27.01	0	2.59	-2.24	0.02
	CO438	Connected member	-5.15	0	0.74	-1	0.01
57	CO439	Main member	-48.4	-0.01	-7.81	-6.05	0.02
	CO439	Connected member	-4.43	0	-0.69	-0.73	0.01
	CO439	Connected member	2.48	0	0	0	0.01
57	CO439	Connected member	-48.4	0.01	7.81	-6.05	0.02
	CO439	Connected member	-4.43	0	0.69	-0.73	0.01
	CO440	Main member	-46.17	-0.01	-7.71	-5.69	0.02
57	CO440	Connected member	-0.99	0	-0.63	-0.48	0.01
	CO440	Connected member	2.48	0	0.07	-0.2	0.01
	CO440	Connected member	-41.88	0.01	6.11	-4.99	0.02
57	CO440	Connected member	-7.11	0	0.75	-0.98	0.01
	CO441	Main member	-53.14	-0.01	-8.77	-6.81	0.03
	CO441	Connected member	-4.84	0	-0.69	-0.73	0.01
57	CO441	Connected member	2.48	0	0	0	0.01
	CO441	Connected member	-53.14	0.01	8.77	-6.81	0.03
	CO441	Connected member	-4.84	0	0.69	-0.73	0.01
57	CO442	Main member	-50.9	-0.01	-8.67	-6.45	0.03
	CO442	Connected member	-1.4	0	-0.64	-0.48	0.01
	CO442	Connected member	2.48	0	0.07	-0.2	0.01
57	CO442	Connected member	-46.61	0.01	7.08	-5.76	0.02
	CO442	Connected member	-7.52	0	0.75	-0.98	0.01
	CO443	Main member	-38.26	-0.01	-5.25	-4.05	0.02
57	CO443	Connected member	-2.88	0	-0.69	-0.74	0.01
	CO443	Connected member	2.49	0	0	0	0.01
	CO443	Connected member	-38.26	0.01	5.25	-4.05	0.02
57	CO443	Connected member	-2.88	0	0.69	-0.74	0.01
	CO444	Main member	-36.03	-0.01	-5.15	-3.7	0.02
	CO444	Connected member	0.55	0	-0.63	-0.49	0.01
57	CO444	Connected member	2.48	0	0.06	-0.19	0.01
	CO444	Connected member	-31.74	0	3.56	-3	0.02
	CO444	Connected member	-5.56	0	0.75	-0.99	0.01
57	CO445	Main member	-68.3	-0.06	-8.07	-6.53	0.2
	CO445	Connected member	9.67	-0.03	-0.7	-0.78	0.27
	CO445	Connected member	2.51	0.03	0.02	-0.03	0.12
57	CO445	Connected member	-48.02	0.1	8.51	-6.56	0.31
	CO445	Connected member	-18.46	0.01	0.69	-0.71	0.14
	CO446	Main member	-42.4	-0.04	-5.44	-3.78	0.16
57	CO446	Connected member	15.02	-0.03	-0.65	-0.61	0.25
	CO446	Connected member	2.5	0.02	0.07	-0.18	0.11
	CO446	Connected member	-19.39	0.1	4.9	-3.29	0.29
57	CO446	Connected member	-17.09	0.01	0.73	-0.92	0.13
	CO447	Main member	-41.76	-0.49	-7.78	-5.98	1.95
	CO447	Connected member	-5.32	-0.07	-0.69	-0.71	0.66
57	CO447	Connected member	2.46	0.02	0	0	0.07
	CO447	Connected member	-41.76	0.49	7.78	-5.98	1.95
	CO447	Connected member	-5.32	0.07	0.69	-0.71	0.66
57	CO448	Main member	-7.13	-0.48	-4.87	-3.1	1.86
	CO448	Connected member	-3.58	-0.06	-0.68	-0.71	0.61
	CO448	Connected member	2.41	0.01	0	0	0.03
57	CO448	Connected member	-7.13	0.48	4.87	-3.1	1.86
	CO448	Connected member	-3.58	0.06	0.68	-0.71	0.61
	CO449	Main member	-6.86	-0.49	-4.73	-3.54	1.89
57	CO449	Connected member	-3.58	-0.06	-0.67	-0.71	0.62
	CO449	Connected member	2.41	0.01	0	0	0.04
	CO449	Connected member	-6.86	0.49	4.73	-3.54	1.89
57	CO449	Connected member	-3.58	0.06	0.67	-0.71	0.62
	CO450	Main member	22.11	-0.49	-1.9	-1.34	1.84
	CO450	Connected member	-1.14	-0.06	-0.66	-0.72	0.57
57	CO450	Connected member	2.38	0	0	0	-0.01
	CO450	Connected member	22.11	0.49	1.9	-1.34	1.84
	CO450	Connected member	-1.14	0.06	0.66	-0.72	0.57
57	CO451	Main member	28	-0.44	-1.87	-1.25	1.62
	CO451	Connected member	-2.83	-0.06	-0.66	-0.69	0.6
	CO451	Connected member	2.35	0.02	0	0	0.09
57	CO451	Connected member	28	0.44	1.87	-1.25	1.62
	CO451	Connected member	-2.83	0.06	0.66	-0.69	0.6
	CO452	Main member	-51.28	-0.05	-5.67	-4.99	0.17
57	CO452	Connected member	3.8	-0.03	-0.78	-1.16	0.25
	CO452	Connected member	2.5	0.03	-0.08	0.27	0.11
	CO452	Connected member	-40.76	0.1	8.51	-6.08	0.31
57	CO452	Connected member	-10.14	0.01	0.61	-0.34	0.14
	CO453	Main member	-60.32	-0.06	-7.87	-5.77	0.19
	CO453	Connected member	20.73	-0.04	-0.57	-0.22	0.27
57	CO453	Connected member	2.5	0.03	0.17	-0.48	0.11
	CO453	Connected member	-27.65	0.09	4.99	-4.23	0.29
	CO453	Connected member	-25.46	0.01	0.81	-1.27	0.13
57	CO454	Main member	-66.06	-0.06	-7.97	-6.17	0.2
	CO454	Connected member	13.1	-0.03	-0.64	-0.53	0.27
	CO454	Connected member	2.5	0.03	0.09	-0.23	0.12
57	CO454	Connected member	-41.5	0.1	6.81	-5.5	0.31
	CO454	Connected member	-21.14	0.01	0.75	-0.96	0.13
	CO455	Main member	-40.16	-0.04	-5.34	-3.43	0.16
57	CO455	Connected member	18.45	-0.03	-0.59	-0.36	0.25
	CO455	Connected member	2.5	0.02	0.13	-0.37	0.11
	CO455	Connected member	-12.88	0.09	3.22	-2.25	0.29
	CO455	Connected member	-19.77	0.01	0.78	-1.17	0.13



::LAV/team::

Page: 132/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO456	Main member	-39.53	-0.49	-7.68	-5.62	1.94
	CO456	Connected member	-1.88	-0.07	-0.63	-0.46	0.66
	CO456	Connected member	2.45	0.02	0.07	-0.19	0.07
	CO456	Connected member	-35.24	0.49	6.09	-4.93	1.94
	CO456	Connected member	-7.99	0.07	0.74	-0.97	0.65
57	CO457	Main member	-4.9	-0.48	-4.76	-2.75	1.86
	CO457	Connected member	-0.15	-0.06	-0.62	-0.46	0.6
	CO457	Connected member	2.41	0.01	0.06	-0.19	0.03
	CO457	Connected member	-0.62	0.48	3.18	-2.06	1.86
	CO457	Connected member	-6.26	0.06	0.73	-0.96	0.6
57	CO458	Main member	-4.62	-0.49	-4.62	-3.19	1.89
	CO458	Connected member	-0.15	-0.06	-0.62	-0.46	0.61
	CO458	Connected member	2.4	0.01	0.06	-0.19	0.03
	CO458	Connected member	-0.34	0.5	3.04	-2.5	1.89
	CO458	Connected member	-6.26	0.06	0.73	-0.96	0.61
57	CO459	Main member	24.35	-0.49	-1.8	-0.99	1.84
	CO459	Connected member	2.29	-0.06	-0.61	-0.47	0.57
	CO459	Connected member	2.38	0	0.06	-0.19	-0.01
	CO459	Connected member	28.62	0.49	0.22	-0.3	1.84
	CO459	Connected member	-3.81	0.05	0.72	-0.97	0.56
57	CO460	Main member	30.23	-0.44	-1.76	-0.9	1.61
	CO460	Connected member	0.6	-0.06	-0.6	-0.45	0.59
	CO460	Connected member	2.34	0.02	0.06	-0.19	0.08
	CO460	Connected member	34.51	0.44	0.19	-0.21	1.61
	CO460	Connected member	-5.5	0.06	0.71	-0.94	0.59
57	CO461	Main member	-49.04	-0.05	-5.57	-4.64	0.17
	CO461	Connected member	7.23	-0.03	-0.73	-0.91	0.25
	CO461	Connected member	2.5	0.03	-0.02	0.08	0.11
	CO461	Connected member	-34.24	0.1	6.81	-5.03	0.31
	CO461	Connected member	-12.82	0.01	0.66	-0.6	0.14
57	CO462	Main member	-58.09	-0.06	-7.77	-5.41	0.19
	CO462	Connected member	24.16	-0.04	-0.51	0.03	0.27
	CO462	Connected member	2.5	0.03	0.24	-0.67	0.11
	CO462	Connected member	-21.13	0.09	3.3	-3.19	0.29
	CO462	Connected member	-28.13	0.01	0.86	-1.52	0.13
57	CO463	Main member	-73.03	-0.06	-9.04	-7.29	0.2
	CO463	Connected member	9.26	-0.03	-0.7	-0.77	0.27
	CO463	Connected member	2.51	0.03	0.02	-0.03	0.12
	CO463	Connected member	-52.75	0.1	9.48	-7.32	0.31
	CO463	Connected member	-18.87	0.01	0.69	-0.71	0.14
57	CO464	Main member	-47.13	-0.04	-6.41	-4.54	0.16
	CO464	Connected member	14.62	-0.03	-0.65	-0.6	0.25
	CO464	Connected member	2.5	0.02	0.07	-0.18	0.11
	CO464	Connected member	-24.12	0.1	5.87	-4.05	0.3
	CO464	Connected member	-17.51	0.01	0.73	-0.92	0.13
57	CO465	Main member	-46.49	-0.49	-8.75	-6.74	1.95
	CO465	Connected member	-5.72	-0.07	-0.69	-0.71	0.67
	CO465	Connected member	2.46	0.02	0	0	0.08
	CO465	Connected member	-46.49	0.49	8.75	-6.74	1.95
	CO465	Connected member	-5.72	0.07	0.69	-0.71	0.67
57	CO466	Main member	-11.86	-0.48	-5.83	-3.86	1.86
	CO466	Connected member	-3.99	-0.06	-0.68	-0.71	0.61
	CO466	Connected member	2.41	0.01	0	0	0.04
	CO466	Connected member	-11.86	0.48	5.83	-3.86	1.86
	CO466	Connected member	-3.99	0.06	0.68	-0.71	0.61
57	CO467	Main member	-11.59	-0.49	-5.69	-4.3	1.9
	CO467	Connected member	-3.99	-0.07	-0.68	-0.7	0.62
	CO467	Connected member	2.41	0.02	0	0	0.04
	CO467	Connected member	-11.59	0.49	5.69	-4.3	1.9
	CO467	Connected member	-3.99	0.07	0.68	-0.7	0.62
57	CO468	Main member	17.38	-0.49	-2.87	-2.09	1.84
	CO468	Connected member	-1.55	-0.06	-0.67	-0.71	0.58
	CO468	Connected member	2.38	0.01	0	0	0
	CO468	Connected member	17.38	0.49	2.87	-2.09	1.84
	CO468	Connected member	-1.55	0.06	0.67	-0.71	0.58
57	CO469	Main member	23.27	-0.44	-2.84	-2	1.62
	CO469	Connected member	-3.24	-0.06	-0.66	-0.69	0.6
	CO469	Connected member	2.35	0.02	0	0	0.09
	CO469	Connected member	23.27	0.44	2.84	-2	1.62
	CO469	Connected member	-3.24	0.06	0.66	-0.69	0.6
57	CO470	Main member	-56.02	-0.05	-6.64	-5.76	0.17
	CO470	Connected member	3.39	-0.03	-0.79	-1.16	0.25
	CO470	Connected member	2.5	0.03	-0.08	0.27	0.11
	CO470	Connected member	-45.49	0.1	9.48	-6.85	0.31
	CO470	Connected member	-10.55	0.01	0.61	-0.34	0.14
57	CO471	Main member	-65.06	-0.06	-8.84	-6.53	0.19
	CO471	Connected member	20.33	-0.04	-0.57	-0.22	0.27
	CO471	Connected member	2.51	0.03	0.17	-0.48	0.11
	CO471	Connected member	-32.38	0.09	5.95	-4.99	0.29
	CO471	Connected member	-25.87	0.01	0.81	-1.27	0.13
57	CO472	Main member	-70.79	-0.06	-8.94	-6.93	0.2
	CO472	Connected member	12.7	-0.03	-0.64	-0.52	0.27
	CO472	Connected member	2.51	0.03	0.09	-0.23	0.12
	CO472	Connected member	-46.23	0.1	7.78	-6.26	0.31
	CO472	Connected member	-21.55	0.01	0.75	-0.96	0.13
57	CO473	Main member	-44.89	-0.04	-6.31	-4.19	0.16
	CO473	Connected member	18.05	-0.03	-0.59	-0.35	0.25
	CO473	Connected member	2.5	0.02	0.13	-0.37	0.11
	CO473	Connected member	-17.6	0.09	4.18	-3	0.29
	CO473	Connected member	-20.18	0.01	0.78	-1.17	0.13
57	CO474	Main member	-44.26	-0.49	-8.65	-6.39	1.95
	CO474	Connected member	-2.29	-0.07	-0.63	-0.46	0.67
	CO474	Connected member	2.46	0.02	0.07	-0.2	0.07
	CO474	Connected member	-39.97	0.49	7.05	-5.69	1.95



::LAVteam::

Page: 133/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO474	Connected member	-8.4	0.07	0.75	-0.96	0.66
	CO475	Main member	-9.62	-0.48	-5.73	-3.51	1.86
	CO475	Connected member	-0.56	-0.06	-0.62	-0.46	0.61
	CO475	Connected member	2.41	0.01	0.06	-0.19	0.03
	CO475	Connected member	-5.34	0.48	4.15	-2.81	1.86
57	CO475	Connected member	-6.67	0.06	0.73	-0.96	0.6
	CO476	Main member	-9.35	-0.49	-5.59	-3.95	1.89
	CO476	Connected member	-0.56	-0.07	-0.62	-0.46	0.62
	CO476	Connected member	2.41	0.01	0.06	-0.19	0.04
	CO476	Connected member	-5.07	0.49	4.01	-3.26	1.89
57	CO476	Connected member	-6.67	0.06	0.73	-0.96	0.61
	CO477	Main member	19.62	-0.49	-2.76	-1.74	1.84
	CO477	Connected member	1.88	-0.06	-0.61	-0.47	0.58
	CO477	Connected member	2.38	0	0.06	-0.19	0
	CO477	Connected member	23.9	0.49	1.19	-1.05	1.84
57	CO477	Connected member	-4.22	0.05	0.72	-0.96	0.57
	CO478	Main member	25.51	-0.44	-2.73	-1.65	1.62
	CO478	Connected member	0.19	-0.06	-0.6	-0.44	0.6
	CO478	Connected member	2.35	0.02	0.06	-0.19	0.09
	CO478	Connected member	29.78	0.44	1.16	-0.96	1.62
57	CO478	Connected member	-5.91	0.06	0.72	-0.94	0.59
	CO479	Main member	-53.78	-0.05	-6.54	-5.4	0.17
	CO479	Connected member	6.83	-0.03	-0.73	-0.91	0.25
	CO479	Connected member	2.5	0.03	-0.02	0.08	0.11
	CO479	Connected member	-38.97	0.1	7.78	-5.79	0.31
57	CO479	Connected member	-13.23	0.01	0.66	-0.59	0.14
	CO480	Main member	-62.82	-0.06	-8.74	-6.17	0.19
	CO480	Connected member	23.76	-0.04	-0.51	0.03	0.27
	CO480	Connected member	2.5	0.03	0.24	-0.67	0.11
	CO480	Connected member	-25.86	0.09	4.27	-3.95	0.29
57	CO480	Connected member	-28.55	0.01	0.86	-1.52	0.13
	CO481	Main member	-58.15	-0.06	-5.51	-4.52	0.19
	CO481	Connected member	11.2	-0.03	-0.7	-0.79	0.27
	CO481	Connected member	2.51	0.03	0.02	-0.03	0.12
	CO481	Connected member	-37.89	0.1	5.95	-4.56	0.31
57	CO481	Connected member	-16.91	0.01	0.69	-0.72	0.13
	CO482	Main member	-32.26	-0.04	-2.89	-1.8	0.15
	CO482	Connected member	16.56	-0.03	-0.65	-0.62	0.25
	CO482	Connected member	2.5	0.02	0.07	-0.18	0.11
	CO482	Connected member	-9.26	0.09	2.35	-1.31	0.29
57	CO482	Connected member	-15.54	0.01	0.72	-0.93	0.13
	CO483	Main member	-31.63	-0.49	-5.22	-3.99	1.94
	CO483	Connected member	-3.77	-0.07	-0.69	-0.73	0.64
	CO483	Connected member	2.46	0.02	0	0	0.05
	CO483	Connected member	-31.63	0.49	5.22	-3.99	1.94
57	CO483	Connected member	-3.77	0.07	0.69	-0.73	0.64
	CO484	Main member	3	-0.48	-2.31	-1.12	1.85
	CO484	Connected member	-2.04	-0.06	-0.67	-0.72	0.59
	CO484	Connected member	2.42	0.01	0	0	0.01
	CO484	Connected member	3	0.48	2.31	-1.12	1.85
57	CO484	Connected member	-2.04	0.06	0.67	-0.72	0.59
	CO485	Main member	3.27	-0.5	-2.17	-1.56	1.89
	CO485	Connected member	-2.04	-0.06	-0.67	-0.72	0.6
	CO485	Connected member	2.41	0.01	0	0	0.02
	CO485	Connected member	3.27	0.5	2.17	-1.56	1.89
57	CO485	Connected member	-2.04	0.06	0.67	-0.72	0.6
	CO486	Main member	32.23	-0.5	0.65	0.63	1.83
	CO486	Connected member	0.41	-0.05	-0.66	-0.73	0.55
	CO486	Connected member	2.38	0	0	0	-0.02
	CO486	Connected member	32.23	0.5	-0.65	0.63	1.83
57	CO486	Connected member	0.41	0.05	0.66	-0.73	0.55
	CO487	Main member	38.12	-0.44	0.68	0.72	1.61
	CO487	Connected member	-1.29	-0.06	-0.66	-0.7	0.58
	CO487	Connected member	2.35	0.02	0	0	0.07
	CO487	Connected member	38.12	0.44	-0.68	0.72	1.61
57	CO487	Connected member	-1.29	0.06	0.66	-0.7	0.58
	CO488	Main member	-41.14	-0.04	-3.11	-3	0.17
	CO488	Connected member	5.34	-0.03	-0.78	-1.17	0.25
	CO488	Connected member	2.5	0.03	-0.08	0.27	0.11
	CO488	Connected member	-30.63	0.1	5.94	-4.09	0.31
57	CO488	Connected member	-8.59	0.01	0.6	-0.36	0.14
	CO489	Main member	-50.18	-0.05	-5.31	-3.77	0.19
	CO489	Connected member	22.26	-0.03	-0.57	-0.24	0.26
	CO489	Connected member	2.51	0.03	0.17	-0.48	0.11
	CO489	Connected member	-17.52	0.09	2.43	-2.24	0.29
57	CO489	Connected member	-23.9	0.01	0.81	-1.29	0.12
	CO490	Main member	-55.91	-0.06	-5.41	-4.17	0.19
	CO490	Connected member	14.64	-0.03	-0.64	-0.54	0.27
	CO490	Connected member	2.51	0.03	0.09	-0.23	0.11
	CO490	Connected member	-31.37	0.1	4.26	-3.51	0.3
57	CO490	Connected member	-19.58	0.01	0.74	-0.97	0.13
	CO491	Main member	-30.02	-0.04	-2.79	-1.44	0.15
	CO491	Connected member	19.99	-0.03	-0.59	-0.37	0.25
	CO491	Connected member	2.5	0.02	0.13	-0.37	0.11
	CO491	Connected member	-2.75	0.09	0.66	-0.26	0.29
57	CO491	Connected member	-18.21	0.01	0.78	-1.18	0.12
	CO492	Main member	-29.39	-0.49	-5.12	-3.63	1.94
	CO492	Connected member	-0.34	-0.07	-0.63	-0.48	0.64
	CO492	Connected member	2.46	0.02	0.06	-0.19	0.05
	CO492	Connected member	-25.11	0.5	3.53	-2.94	1.94
57	CO492	Connected member	-6.45	0.07	0.74	-0.98	0.63
	CO493	Main member	5.23	-0.49	-2.21	-0.77	1.85
	CO493	Connected member	1.39	-0.06	-0.62	-0.48	0.59
	CO493	Connected member	2.41	0.01	0.06	-0.19	0.01



::LAV/team::

Page: 134/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO493	Connected member	9.51	0.49	0.63	-0.08	1.85
	CO493	Connected member	-4.71	0.06	0.73	-0.97	0.58
	CO494	Main member	5.51	-0.5	-2.07	-1.21	1.88
57	CO494	Connected member	1.39	-0.06	-0.62	-0.47	0.6
	CO494	Connected member	2.41	0.01	0.06	-0.19	0.01
	CO494	Connected member	9.79	0.5	0.49	-0.52	1.88
57	CO494	Connected member	-4.71	0.06	0.73	-0.97	0.59
	CO495	Main member	34.47	-0.5	0.75	0.98	1.83
	CO495	Connected member	3.84	-0.05	-0.61	-0.49	0.55
57	CO495	Connected member	2.38	0	0.06	-0.19	-0.03
	CO495	Connected member	38.75	0.5	-2.32	1.67	1.83
	CO495	Connected member	-2.26	0.05	0.72	-0.98	0.55
57	CO496	Main member	40.36	-0.44	0.78	1.07	1.61
	CO496	Connected member	2.14	-0.06	-0.6	-0.46	0.58
	CO496	Connected member	2.35	0.02	0.06	-0.19	0.06
57	CO496	Connected member	44.63	0.44	-2.35	1.75	1.61
	CO496	Connected member	-3.96	0.05	0.71	-0.95	0.57
	CO497	Main member	-38.9	-0.05	-3.01	-2.65	0.17
57	CO497	Connected member	8.77	-0.03	-0.72	-0.93	0.25
	CO497	Connected member	2.5	0.02	-0.02	0.08	0.11
	CO497	Connected member	-24.11	0.1	4.25	-3.04	0.31
57	CO497	Connected member	-11.26	0.01	0.66	-0.61	0.13
	CO498	Main member	-47.94	-0.06	-5.21	-3.42	0.19
	CO498	Connected member	25.69	-0.04	-0.5	0.01	0.26
57	CO498	Connected member	2.51	0.02	0.24	-0.67	0.11
	CO498	Connected member	-11.01	0.09	0.75	-1.2	0.29
	CO498	Connected member	-26.57	0.01	0.86	-1.53	0.12
57	CO499	Main member	-53.42	-0.06	-4.54	-3.76	0.19
	CO499	Connected member	11.61	-0.03	-0.7	-0.79	0.26
	CO499	Connected member	2.51	0.03	0.02	-0.03	0.11
57	CO499	Connected member	-33.16	0.1	4.98	-3.8	0.3
	CO499	Connected member	-16.5	0.01	0.69	-0.73	0.13
	CO500	Main member	-27.53	-0.04	-1.92	-1.04	0.15
57	CO500	Connected member	16.96	-0.03	-0.65	-0.62	0.25
	CO500	Connected member	2.5	0.02	0.07	-0.18	0.11
	CO500	Connected member	-4.54	0.09	1.38	-0.55	0.29
57	CO500	Connected member	-15.13	0.01	0.72	-0.93	0.12
	CO501	Main member	-26.9	-0.5	-4.25	-3.23	1.94
	CO501	Connected member	-3.36	-0.07	-0.69	-0.73	0.64
57	CO501	Connected member	2.46	0.02	0	0	0.05
	CO501	Connected member	-26.9	0.5	4.25	-3.23	1.94
	CO501	Connected member	-3.36	0.07	0.69	-0.73	0.64
57	CO502	Main member	7.72	-0.49	-1.35	-0.37	1.85
	CO502	Connected member	-1.63	-0.06	-0.67	-0.72	0.58
	CO502	Connected member	2.41	0.01	0	0	0.01
57	CO502	Connected member	7.72	0.49	1.35	-0.37	1.85
	CO502	Connected member	-1.63	0.06	0.67	-0.72	0.58
	CO503	Main member	8	-0.5	-1.21	-0.81	1.88
57	CO503	Connected member	-1.63	-0.06	-0.67	-0.72	0.59
	CO503	Connected member	2.41	0.01	0	0	0.01
	CO503	Connected member	8	0.5	1.21	-0.81	1.88
57	CO503	Connected member	-1.63	0.06	0.67	-0.72	0.59
	CO504	Main member	36.96	-0.5	1.61	1.38	1.83
	CO504	Connected member	0.82	-0.05	-0.66	-0.73	0.55
57	CO504	Connected member	2.38	0	0	0	-0.03
	CO504	Connected member	36.96	0.5	-1.61	1.38	1.83
	CO504	Connected member	0.82	0.05	0.66	-0.73	0.55
57	CO505	Main member	42.84	-0.44	1.64	1.47	1.61
	CO505	Connected member	-0.88	-0.05	-0.66	-0.71	0.58
	CO505	Connected member	2.35	0.02	0	0	0.06
57	CO505	Connected member	42.84	0.44	-1.64	1.47	1.61
	CO505	Connected member	-0.88	0.05	0.66	-0.71	0.58
	CO506	Main member	-36.41	-0.04	-2.15	-2.24	0.16
57	CO506	Connected member	5.74	-0.03	-0.78	-1.18	0.25
	CO506	Connected member	2.5	0.02	-0.08	0.27	0.11
	CO506	Connected member	-25.9	0.1	4.98	-3.33	0.31
57	CO506	Connected member	-8.18	0.01	0.6	-0.36	0.13
	CO507	Main member	-45.44	-0.05	-4.34	-3.01	0.18
	CO507	Connected member	22.67	-0.03	-0.56	-0.24	0.26
57	CO507	Connected member	2.51	0.02	0.17	-0.47	0.11
	CO507	Connected member	-12.8	0.09	1.47	-1.49	0.29
	CO507	Connected member	-23.49	0.01	0.8	-1.29	0.12
57	CO508	Main member	-51.18	-0.06	-4.44	-3.41	0.19
	CO508	Connected member	15.04	-0.03	-0.64	-0.54	0.27
	CO508	Connected member	2.51	0.03	0.09	-0.23	0.11
57	CO508	Connected member	-26.64	0.1	3.29	-2.75	0.3
	CO508	Connected member	-19.17	0.01	0.74	-0.98	0.13
	CO509	Main member	-25.29	-0.04	-1.82	-0.69	0.15
57	CO509	Connected member	20.39	-0.03	-0.59	-0.37	0.25
	CO509	Connected member	2.5	0.02	0.13	-0.37	0.1
	CO509	Connected member	1.98	0.09	-0.3	0.49	0.29
57	CO509	Connected member	-17.8	0.01	0.78	-1.18	0.12
	CO510	Main member	-24.66	-0.5	-4.15	-2.87	1.93
	CO510	Connected member	0.07	-0.07	-0.63	-0.48	0.64
57	CO510	Connected member	2.46	0.01	0.06	-0.19	0.04
	CO510	Connected member	-20.38	0.5	2.56	-2.18	1.93
	CO510	Connected member	-6.04	0.06	0.74	-0.98	0.63
57	CO511	Main member	9.96	-0.49	-1.24	-0.02	1.85
	CO511	Connected member	1.8	-0.06	-0.62	-0.48	0.58
	CO511	Connected member	2.41	0.01	0.06	-0.19	0
57	CO511	Connected member	14.24	0.49	-0.34	0.67	1.85
	CO511	Connected member	-4.3	0.06	0.73	-0.97	0.57
	CO512	Main member	10.23	-0.5	-1.1	-0.46	1.88
	CO512	Connected member	1.8	-0.06	-0.61	-0.48	0.59



::LAVteam::

Page: 135/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO512	Connected member	2.41	0.01	0.06	-0.19	0
	CO512	Connected member	14.51	0.5	-0.48	0.23	1.88
	CO512	Connected member	-4.3	0.06	0.73	-0.97	0.58
57	CO513	Main member	39.19	-0.5	1.72	1.73	1.83
	CO513	Connected member	4.25	-0.05	-0.6	-0.49	0.55
	CO513	Connected member	2.38	0	0.06	-0.19	-0.04
57	CO513	Connected member	43.47	0.5	-3.29	2.41	1.83
	CO513	Connected member	-1.85	0.05	0.72	-0.98	0.54
	CO514	Main member	45.08	-0.44	1.75	1.82	1.61
57	CO514	Connected member	2.55	-0.06	-0.6	-0.46	0.58
	CO514	Connected member	2.34	0.02	0.06	-0.19	0.06
	CO514	Connected member	49.35	0.44	-3.32	2.5	1.6
57	CO514	Connected member	-3.55	0.05	0.71	-0.95	0.57
	CO515	Main member	-34.17	-0.04	-2.05	-1.89	0.17
	CO515	Connected member	9.17	-0.03	-0.72	-0.93	0.25
57	CO515	Connected member	2.5	0.02	-0.02	0.08	0.11
	CO515	Connected member	-19.39	0.1	3.29	-2.28	0.31
	CO515	Connected member	-10.85	0.01	0.66	-0.61	0.13
57	CO516	Main member	-43.21	-0.05	-4.24	-2.66	0.19
	CO516	Connected member	26.1	-0.04	-0.5	0.01	0.26
	CO516	Connected member	2.5	0.02	0.24	-0.67	0.11
57	CO516	Connected member	-6.28	0.09	-0.22	-0.45	0.29
	CO516	Connected member	-26.16	0.01	0.85	-1.53	0.12
	CO517	Main member	-49.14	-0.08	-1.13	-1.27	0.3
57	CO517	Connected member	22.47	-0.06	-0.7	-0.84	0.43
	CO517	Connected member	2.52	0.04	0.04	-0.05	0.18
	CO517	Connected member	-15.44	0.16	1.86	-1.33	0.49
57	CO517	Connected member	-24.29	0.01	0.68	-0.72	0.2
	CO518	Main member	-5.98	-0.06	3.22	3.24	0.23
	CO518	Connected member	31.36	-0.05	-0.62	-0.56	0.4
57	CO518	Connected member	2.5	0.04	0.11	-0.29	0.16
	CO518	Connected member	32.22	0.15	-4.11	4.04	0.47
	CO518	Connected member	-21.98	0.01	0.74	-1.06	0.19
57	CO519	Main member	-4.97	-0.84	-0.66	-0.39	3.18
	CO519	Connected member	-2.44	-0.11	-0.68	-0.73	1.02
	CO519	Connected member	2.44	0.02	0	0	0.04
57	CO519	Connected member	-4.97	0.84	0.66	-0.39	3.18
	CO519	Connected member	-2.44	0.11	0.68	-0.73	1.02
	CO520	Main member	52.71	-0.83	4.17	4.32	3.01
57	CO520	Connected member	0.45	-0.08	-0.66	-0.72	0.9
	CO520	Connected member	2.36	0	0	0	-0.05
	CO520	Connected member	52.71	0.83	-4.17	4.32	3.01
57	CO520	Connected member	0.45	0.08	0.66	-0.72	0.9
	CO521	Main member	53.16	-0.86	4.4	3.59	3.06
	CO521	Connected member	0.45	-0.09	-0.66	-0.72	0.91
57	CO521	Connected member	2.35	0	0	0	-0.05
	CO521	Connected member	53.16	0.86	-4.4	3.59	3.06
	CO521	Connected member	0.45	0.09	0.66	-0.72	0.91
57	CO522	Main member	101.39	-0.87	9.07	7.19	2.97
	CO522	Connected member	4.53	-0.07	-0.64	-0.73	0.8
	CO522	Connected member	2.3	-0.03	0	0	-0.15
57	CO522	Connected member	101.39	0.87	-9.07	7.19	2.97
	CO522	Connected member	4.53	0.07	0.64	-0.73	0.8
	CO523	Main member	111.2	-0.77	9.12	7.33	2.59
57	CO523	Connected member	1.71	-0.08	-0.63	-0.69	0.87
	CO523	Connected member	2.24	0.01	0	0	0.04
	CO523	Connected member	111.2	0.77	-9.12	7.33	2.59
57	CO523	Connected member	1.71	0.08	0.63	-0.69	0.87
	CO524	Main member	-20.79	-0.06	2.85	1.25	0.25
	CO524	Connected member	12.68	-0.05	-0.84	-1.47	0.41
57	CO524	Connected member	2.5	0.04	-0.14	0.45	0.17
	CO524	Connected member	-3.35	0.17	1.86	-0.55	0.5
	CO524	Connected member	-10.42	0.01	0.54	-0.12	0.21
57	CO525	Main member	-35.84	-0.08	-0.79	-0.02	0.29
	CO525	Connected member	40.87	-0.06	-0.47	0.08	0.43
	CO525	Connected member	2.51	0.04	0.28	-0.79	0.17
57	CO525	Connected member	18.47	0.15	-3.97	2.49	0.47
	CO525	Connected member	-35.92	0.01	0.87	-1.64	0.19
	CO526	Main member	-64.02	-0.09	-4.66	-4.02	0.3
57	CO526	Connected member	20.54	-0.06	-0.71	-0.82	0.43
	CO526	Connected member	2.52	0.04	0.04	-0.05	0.19
	CO526	Connected member	-30.29	0.16	5.39	-4.08	0.5
57	CO526	Connected member	-26.26	0.01	0.69	-0.71	0.21
	CO527	Main member	-20.86	-0.06	-0.29	0.52	0.24
	CO527	Connected member	29.43	-0.05	-0.62	-0.54	0.41
57	CO527	Connected member	2.5	0.04	0.11	-0.29	0.17
	CO527	Connected member	17.38	0.16	-0.6	1.32	0.47
	CO527	Connected member	-23.95	0.01	0.74	-1.05	0.19
57	CO528	Main member	-19.82	-0.82	-4.18	-3.13	3.2
	CO528	Connected member	-4.39	-0.11	-0.68	-0.71	1.06
	CO528	Connected member	2.43	0.03	0	0	0.09
57	CO528	Connected member	-19.82	0.82	4.18	-3.13	3.2
	CO528	Connected member	-4.39	0.11	0.68	-0.71	1.06
	CO529	Main member	37.86	-0.82	0.66	1.62	3.02
57	CO529	Connected member	-1.5	-0.09	-0.66	-0.7	0.93
	CO529	Connected member	2.35	0.01	0	0	-0.01
	CO529	Connected member	37.86	0.82	-0.66	1.62	3.02
57	CO529	Connected member	-1.5	0.09	0.66	-0.7	0.93
	CO530	Main member	38.32	-0.84	0.89	0.89	3.07
	CO530	Connected member	-1.5	-0.09	-0.66	-0.7	0.95
57	CO530	Connected member	2.35	0.01	0	0	0
	CO530	Connected member	38.32	0.84	-0.89	0.89	3.07
	CO530	Connected member	-1.5	0.09	0.66	-0.7	0.95
57	CO531	Main member	86.56	-0.85	5.57	4.5	2.97



::LAV/team::

Page: 136/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO531	Connected member	2.58	-0.07	-0.64	-0.72	0.84
	CO531	Connected member	2.3	-0.02	0	0	-0.11
	CO531	Connected member	86.56	0.85	-5.57	4.5	2.97
57	CO531	Connected member	2.58	0.07	0.64	-0.72	0.84
	CO532	Main member	96.37	-0.76	5.62	4.65	2.6
	CO532	Connected member	-0.25	-0.08	-0.63	-0.67	0.9
57	CO532	Connected member	2.24	0.02	0	0	0.07
	CO532	Connected member	96.37	0.76	-5.62	4.65	2.6
	CO532	Connected member	-0.25	0.08	0.63	-0.67	0.9
57	CO533	Main member	-35.66	-0.07	-0.67	-1.48	0.26
	CO533	Connected member	10.75	-0.05	-0.84	-1.46	0.41
	CO533	Connected member	2.5	0.04	-0.14	0.45	0.18
57	CO533	Connected member	-18.2	0.17	5.38	-3.29	0.5
	CO533	Connected member	-12.39	0.01	0.55	-0.1	0.21
	CO534	Main member	-50.73	-0.08	-4.32	-2.76	0.29
57	CO534	Connected member	38.95	-0.06	-0.47	0.1	0.43
	CO534	Connected member	2.51	0.04	0.28	-0.79	0.18
	CO534	Connected member	3.63	0.15	-0.46	-0.23	0.47
57	CO534	Connected member	-37.9	0.01	0.87	-1.63	0.19
	CO535	Main member	-68.76	-0.09	-5.63	-4.78	0.3
	CO535	Connected member	20.14	-0.06	-0.71	-0.82	0.43
57	CO535	Connected member	2.52	0.04	0.04	-0.05	0.19
	CO535	Connected member	-35.02	0.16	6.35	-4.84	0.5
	CO535	Connected member	-26.68	0.01	0.69	-0.71	0.21
57	CO536	Main member	-25.59	-0.06	-1.26	-0.24	0.24
	CO536	Connected member	29.03	-0.05	-0.62	-0.53	0.41
	CO536	Connected member	2.5	0.04	0.12	-0.29	0.17
57	CO536	Connected member	12.66	0.16	0.36	0.57	0.48
	CO536	Connected member	-24.37	0.01	0.74	-1.05	0.19
57	CO537	Main member	-24.55	-0.82	-5.14	-3.88	3.2
	CO537	Connected member	-4.8	-0.11	-0.68	-0.71	1.07
	CO537	Connected member	2.44	0.03	0	0	0.1
57	CO537	Connected member	-24.55	0.82	5.14	-3.88	3.2
	CO537	Connected member	-4.8	0.11	0.68	-0.71	1.07
	CO538	Main member	33.14	-0.82	-0.3	0.87	3.03
57	CO538	Connected member	-1.91	-0.09	-0.66	-0.7	0.94
	CO538	Connected member	2.36	0.01	0	0	0
	CO538	Connected member	33.14	0.82	0.3	0.87	3.03
57	CO538	Connected member	-1.91	0.09	0.66	-0.7	0.94
	CO539	Main member	33.6	-0.84	-0.07	0.14	3.08
	CO539	Connected member	-1.91	-0.09	-0.66	-0.7	0.96
57	CO539	Connected member	2.35	0.01	0	0	0.01
	CO539	Connected member	33.6	0.84	0.07	0.14	3.08
	CO539	Connected member	-1.91	0.09	0.66	-0.7	0.96
57	CO540	Main member	81.84	-0.85	4.61	3.76	2.98
	CO540	Connected member	2.17	-0.07	-0.64	-0.72	0.85
	CO540	Connected member	2.3	-0.01	0	0	-0.1
57	CO540	Connected member	81.84	0.85	-4.61	3.76	2.98
	CO540	Connected member	2.17	0.07	0.64	-0.72	0.85
	CO541	Main member	91.65	-0.75	4.66	3.91	2.6
57	CO541	Connected member	-0.66	-0.08	-0.64	-0.67	0.91
	CO541	Connected member	2.25	0.02	0	0	0.08
	CO541	Connected member	91.65	0.75	-4.66	3.91	2.6
57	CO541	Connected member	-0.66	0.08	0.64	-0.67	0.91
	CO542	Main member	-40.4	-0.07	-1.63	-2.24	0.26
	CO542	Connected member	10.35	-0.05	-0.84	-1.46	0.41
57	CO542	Connected member	2.51	0.04	-0.14	0.45	0.18
	CO542	Connected member	-22.93	0.17	6.35	-4.05	0.5
	CO542	Connected member	-12.8	0.01	0.55	-0.1	0.21
57	CO543	Main member	-55.46	-0.09	-5.29	-3.52	0.29
	CO543	Connected member	38.55	-0.06	-0.47	0.11	0.44
	CO543	Connected member	2.51	0.04	0.29	-0.79	0.18
57	CO543	Connected member	-1.09	0.15	0.51	-0.99	0.47
	CO543	Connected member	-38.32	0.01	0.87	-1.63	0.19
	CO544	Main member	-53.87	-0.09	-2.1	-2.02	0.3
57	CO544	Connected member	22.07	-0.06	-0.7	-0.83	0.43
	CO544	Connected member	2.52	0.04	0.04	-0.05	0.18
	CO544	Connected member	-20.17	0.16	2.83	-2.08	0.49
57	CO544	Connected member	-24.7	0.01	0.69	-0.72	0.2
	CO545	Main member	-10.71	-0.06	2.26	2.49	0.23
57	CO545	Connected member	30.96	-0.05	-0.62	-0.55	0.4
	CO545	Connected member	2.5	0.04	0.11	-0.29	0.16
	CO545	Connected member	27.5	0.16	-3.15	3.29	0.47
57	CO545	Connected member	-22.39	0.01	0.74	-1.06	0.19
	CO546	Main member	-9.69	-0.83	-1.62	-1.14	3.19
	CO546	Connected member	-2.85	-0.11	-0.68	-0.72	1.03
57	CO546	Connected member	2.44	0.02	0	0	0.05
	CO546	Connected member	-9.69	0.83	1.62	-1.14	3.19
	CO546	Connected member	-2.85	0.11	0.68	-0.72	1.03
57	CO547	Main member	47.98	-0.83	3.21	3.58	3.02
	CO547	Connected member	0.04	-0.09	-0.66	-0.72	0.91
	CO547	Connected member	2.36	0	0	0	-0.04
57	CO547	Connected member	47.98	0.83	-3.21	3.58	3.02
	CO547	Connected member	0.04	0.09	0.66	-0.72	0.91
	CO548	Main member	48.44	-0.85	3.44	2.85	3.06
57	CO548	Connected member	0.04	-0.09	-0.66	-0.72	0.92
	CO548	Connected member	2.35	0	0	0	-0.04
	CO548	Connected member	48.44	0.85	-3.44	2.85	3.06
57	CO548	Connected member	0.04	0.09	0.66	-0.72	0.92
	CO549	Main member	96.67	-0.86	8.11	6.45	2.97
	CO549	Connected member	4.12	-0.07	-0.64	-0.73	0.81
	CO549	Connected member	2.3	-0.02	0	0	-0.14
	CO549	Connected member	96.67	0.86	-8.11	6.45	2.97
	CO549	Connected member	4.12	0.07	0.64	-0.73	0.81



::LAV/team::

Page: 137/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO550	Main member	106.48	-0.76	8.16	6.59	2.59
	CO550	Connected member	1.3	-0.08	-0.63	-0.69	0.88
	CO550	Connected member	2.25	0.02	0	0	0.05
57	CO550	Connected member	106.48	0.76	-8.16	6.59	2.59
	CO550	Connected member	1.3	0.08	0.63	-0.69	0.88
	CO551	Main member	-25.52	-0.06	1.88	0.5	0.25
57	CO551	Connected member	12.28	-0.05	-0.84	-1.47	0.41
	CO551	Connected member	2.51	0.04	-0.14	0.45	0.17
	CO551	Connected member	-8.08	0.17	2.82	-1.31	0.5
57	CO551	Connected member	-10.83	0.01	0.54	-0.11	0.21
	CO552	Main member	-40.58	-0.08	-1.76	-0.78	0.29
	CO552	Connected member	40.47	-0.06	-0.47	0.09	0.43
57	CO552	Connected member	2.51	0.04	0.28	-0.79	0.17
	CO552	Connected member	13.75	0.15	-3.01	1.74	0.47
	CO552	Connected member	-36.33	0.01	0.87	-1.64	0.19
57	CO553	Main member	-72.79	-0.09	-6.45	-5.43	0.31
	CO553	Connected member	19.79	-0.06	-0.71	-0.81	0.43
	CO553	Connected member	2.52	0.04	0.04	-0.05	0.19
57	CO553	Connected member	-39.04	0.16	7.18	-5.48	0.5
	CO553	Connected member	-27.03	0.01	0.69	-0.7	0.21
	CO554	Main member	-29.62	-0.06	-2.08	-0.88	0.24
57	CO554	Connected member	28.69	-0.05	-0.62	-0.53	0.41
	CO554	Connected member	2.51	0.04	0.12	-0.29	0.17
	CO554	Connected member	8.64	0.16	1.18	-0.07	0.48
57	CO554	Connected member	-24.72	0.01	0.75	-1.05	0.19
	CO555	Main member	-28.58	-0.82	-5.97	-4.53	3.21
	CO555	Connected member	-5.15	-0.12	-0.68	-0.71	1.08
57	CO555	Connected member	2.44	0.03	0	0	0.11
	CO555	Connected member	-28.58	0.82	5.97	-4.53	3.21
	CO555	Connected member	-5.15	0.12	0.68	-0.71	1.08
57	CO556	Main member	29.12	-0.81	-1.12	0.23	3.03
	CO556	Connected member	-2.26	-0.09	-0.66	-0.7	0.95
	CO556	Connected member	2.36	0.01	0	0	0.01
57	CO556	Connected member	29.12	0.81	1.12	0.23	3.03
	CO556	Connected member	-2.26	0.09	0.66	-0.7	0.95
	CO557	Main member	29.57	-0.84	-0.89	-0.5	3.08
57	CO557	Connected member	-2.26	-0.1	-0.66	-0.7	0.97
	CO557	Connected member	2.35	0.01	0	0	0.01
	CO557	Connected member	29.57	0.84	0.89	-0.5	3.08
57	CO557	Connected member	-2.26	0.1	0.66	-0.7	0.97
	CO558	Main member	77.82	-0.85	3.79	3.13	2.98
	CO558	Connected member	1.82	-0.08	-0.64	-0.71	0.86
57	CO558	Connected member	2.3	-0.01	0	0	-0.09
	CO558	Connected member	77.82	0.85	-3.79	3.13	2.98
	CO558	Connected member	1.82	0.08	0.64	-0.71	0.86
57	CO559	Main member	87.63	-0.75	3.85	3.28	2.6
	CO559	Connected member	-1	-0.08	-0.64	-0.67	0.92
	CO559	Connected member	2.25	0.03	0	0	0.09
57	CO559	Connected member	87.63	0.75	-3.85	3.28	2.6
	CO559	Connected member	-1	0.08	0.64	-0.67	0.92
57	CO560	Main member	-44.43	-0.07	-2.46	-2.89	0.26
	CO560	Connected member	10	-0.05	-0.85	-1.46	0.41
	CO560	Connected member	2.51	0.04	-0.14	0.45	0.18
57	CO560	Connected member	-26.95	0.17	7.18	-4.7	0.51
	CO560	Connected member	-13.16	0.01	0.55	-0.09	0.21
	CO561	Main member	-59.5	-0.09	-6.12	-4.17	0.29
57	CO561	Connected member	38.21	-0.06	-0.47	0.11	0.44
	CO561	Connected member	2.51	0.04	0.29	-0.79	0.18
	CO561	Connected member	-5.11	0.15	1.33	-1.63	0.47
57	CO561	Connected member	-38.67	0.01	0.88	-1.63	0.19
	CO562	Main member	-71.67	-0.09	-6.4	-5.25	0.31
	CO562	Connected member	21.51	-0.06	-0.68	-0.69	0.44
57	CO562	Connected member	2.52	0.04	0.07	-0.15	0.19
	CO562	Connected member	-35.79	0.16	6.33	-4.96	0.5
	CO562	Connected member	-28.37	0.01	0.72	-0.83	0.21
57	CO563	Main member	-28.5	-0.06	-2.03	-0.7	0.24
	CO563	Connected member	30.4	-0.05	-0.59	-0.41	0.41
	CO563	Connected member	2.51	0.04	0.15	-0.39	0.17
57	CO563	Connected member	11.9	0.16	0.34	0.45	0.48
	CO563	Connected member	-26.06	0.01	0.77	-1.17	0.19
	CO564	Main member	-27.46	-0.82	-5.92	-4.35	3.2
57	CO564	Connected member	-3.43	-0.12	-0.66	-0.58	1.08
	CO564	Connected member	2.44	0.03	0.03	-0.1	0.1
	CO564	Connected member	-25.32	0.82	5.12	-4.01	3.2
57	CO564	Connected member	-6.49	0.11	0.71	-0.83	1.07
	CO565	Main member	30.24	-0.81	-1.07	0.4	3.03
	CO565	Connected member	-0.54	-0.09	-0.63	-0.58	0.95
57	CO565	Connected member	2.36	0.01	0.03	-0.1	0
	CO565	Connected member	32.37	0.82	0.29	0.75	3.03
	CO565	Connected member	-3.59	0.09	0.69	-0.82	0.94
57	CO566	Main member	30.69	-0.84	-0.84	-0.33	3.08
	CO566	Connected member	-0.55	-0.1	-0.63	-0.58	0.96
	CO566	Connected member	2.35	0.01	0.03	-0.1	0.01
57	CO566	Connected member	32.83	0.84	0.05	0.02	3.08
	CO566	Connected member	-3.6	0.09	0.69	-0.82	0.96
	CO567	Main member	78.94	-0.85	3.85	3.3	2.98
57	CO567	Connected member	3.53	-0.08	-0.62	-0.59	0.85
	CO567	Connected member	2.3	-0.01	0.03	-0.09	-0.1
	CO567	Connected member	81.07	0.85	-4.63	3.64	2.98
57	CO567	Connected member	0.49	0.07	0.67	-0.84	0.85
	CO568	Main member	88.75	-0.75	3.9	3.45	2.6
	CO568	Connected member	0.71	-0.08	-0.61	-0.55	0.92
57	CO568	Connected member	2.25	0.03	0.03	-0.09	0.08
	CO568	Connected member	90.88	0.75	-4.68	3.79	2.6



::LAV/team::

Page: 138/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO568	Connected member	-2.34	0.08	0.66	-0.79	0.91
	CO569	Main member	-43.31	-0.07	-2.41	-2.71	0.26
	CO569	Connected member	11.72	-0.05	-0.82	-1.33	0.41
	CO569	Connected member	2.51	0.04	-0.1	0.36	0.18
	CO569	Connected member	-23.69	0.17	6.33	-4.17	0.5
57	CO569	Connected member	-14.49	0.01	0.58	-0.22	0.21
	CO570	Main member	-58.37	-0.09	-6.07	-4	0.29
	CO570	Connected member	39.92	-0.06	-0.44	0.24	0.44
	CO570	Connected member	2.51	0.04	0.32	-0.89	0.18
	CO570	Connected member	-1.86	0.15	0.49	-1.11	0.47
57	CO570	Connected member	-40.01	0.01	0.9	-1.76	0.19
	CO571	Main member	-77.53	-0.09	-7.42	-6.19	0.31
	CO571	Connected member	19.39	-0.06	-0.71	-0.81	0.44
	CO571	Connected member	2.52	0.04	0.04	-0.05	0.19
	CO571	Connected member	-43.77	0.16	8.15	-6.25	0.5
57	CO571	Connected member	-27.44	0.01	0.69	-0.7	0.21
	CO572	Main member	-34.35	-0.06	-3.05	-1.64	0.24
	CO572	Connected member	28.29	-0.05	-0.62	-0.53	0.41
	CO572	Connected member	2.51	0.04	0.12	-0.29	0.17
	CO572	Connected member	3.92	0.16	2.15	-0.82	0.48
57	CO572	Connected member	-25.14	0.01	0.75	-1.04	0.2
	CO573	Main member	-33.31	-0.81	-6.94	-5.29	3.21
	CO573	Connected member	-5.56	-0.12	-0.69	-0.7	1.09
	CO573	Connected member	2.44	0.04	0	0	0.12
	CO573	Connected member	-33.31	0.81	6.94	-5.29	3.21
57	CO573	Connected member	-5.56	0.12	0.69	-0.7	1.09
	CO574	Main member	24.39	-0.81	-2.09	-0.52	3.04
	CO574	Connected member	-2.67	-0.1	-0.66	-0.7	0.96
	CO574	Connected member	2.36	0.01	0	0	0.02
	CO574	Connected member	24.39	0.81	2.09	-0.52	3.04
57	CO574	Connected member	-2.67	0.1	0.66	-0.7	0.96
	CO575	Main member	24.85	-0.83	-1.86	-1.25	3.09
	CO575	Connected member	-2.67	-0.1	-0.66	-0.7	0.98
	CO575	Connected member	2.35	0.01	0	0	0.02
	CO575	Connected member	24.85	0.83	1.86	-1.25	3.09
57	CO575	Connected member	-2.67	0.1	0.66	-0.7	0.98
	CO576	Main member	73.1	-0.84	2.83	2.38	2.99
	CO576	Connected member	1.41	-0.08	-0.65	-0.71	0.87
	CO576	Connected member	2.31	-0.01	0	0	-0.08
	CO576	Connected member	73.1	0.84	-2.83	2.38	2.99
57	CO576	Connected member	1.41	0.08	0.65	-0.71	0.87
	CO577	Main member	82.91	-0.75	2.88	2.53	2.61
	CO577	Connected member	-1.41	-0.09	-0.64	-0.67	0.93
	CO577	Connected member	2.25	0.03	0	0	0.1
	CO577	Connected member	82.91	0.75	-2.88	2.53	2.61
57	CO577	Connected member	-1.41	0.09	0.64	-0.67	0.93
	CO578	Main member	-49.16	-0.07	-3.42	-3.64	0.26
	CO578	Connected member	9.6	-0.05	-0.85	-1.45	0.41
	CO578	Connected member	2.51	0.04	-0.14	0.46	0.18
	CO578	Connected member	-31.68	0.17	8.14	-5.46	0.51
57	CO578	Connected member	-13.57	0.01	0.55	-0.09	0.21
	CO579	Main member	-64.23	-0.09	-7.09	-4.93	0.3
	CO579	Connected member	37.81	-0.06	-0.48	0.12	0.44
	CO579	Connected member	2.52	0.04	0.29	-0.79	0.18
	CO579	Connected member	-9.84	0.15	2.29	-2.39	0.47
57	CO579	Connected member	-39.09	0.01	0.88	-1.63	0.19
	CO580	Main member	-76.41	-0.09	-7.37	-6.01	0.31
	CO580	Connected member	21.11	-0.06	-0.68	-0.69	0.44
	CO580	Connected member	2.52	0.04	0.07	-0.15	0.19
	CO580	Connected member	-40.51	0.16	7.7	-5.72	0.5
57	CO580	Connected member	-28.78	0.01	0.72	-0.83	0.21
	CO581	Main member	-33.23	-0.06	-3	-1.46	0.24
	CO581	Connected member	30	-0.05	-0.59	-0.4	0.41
	CO581	Connected member	2.51	0.04	0.15	-0.39	0.17
	CO581	Connected member	7.17	0.16	1.31	-0.3	0.48
57	CO581	Connected member	-26.47	0.01	0.77	-1.17	0.19
	CO582	Main member	-32.19	-0.81	-6.89	-5.11	3.21
	CO582	Connected member	-3.84	-0.12	-0.66	-0.58	1.09
	CO582	Connected member	2.44	0.04	0.03	-0.1	0.11
	CO582	Connected member	-30.05	0.82	6.09	-4.76	3.21
57	CO582	Connected member	-6.9	0.12	0.71	-0.83	1.08
	CO583	Main member	25.51	-0.81	-2.04	-0.35	3.03
	CO583	Connected member	-0.95	-0.1	-0.64	-0.58	0.96
	CO583	Connected member	2.36	0.01	0.03	-0.1	0.01
	CO583	Connected member	27.65	0.81	1.25	0	3.03
57	CO583	Connected member	-4	0.09	0.69	-0.82	0.95
	CO584	Main member	25.97	-0.83	-1.8	-1.08	3.08
	CO584	Connected member	-0.95	-0.1	-0.63	-0.57	0.97
	CO584	Connected member	2.35	0.01	0.03	-0.1	0.02
	CO584	Connected member	28.1	0.84	1.02	-0.73	3.08
57	CO584	Connected member	-4.01	0.1	0.69	-0.82	0.97
	CO585	Main member	74.22	-0.84	2.89	2.56	2.99
	CO585	Connected member	3.12	-0.08	-0.62	-0.59	0.86
	CO585	Connected member	2.31	-0.01	0.03	-0.09	-0.09
	CO585	Connected member	76.35	0.84	-3.67	2.9	2.99
57	CO585	Connected member	0.08	0.08	0.67	-0.83	0.86
	CO586	Main member	84.03	-0.75	2.94	2.71	2.61
	CO586	Connected member	0.3	-0.09	-0.61	-0.55	0.93
	CO586	Connected member	2.25	0.03	0.03	-0.09	0.09
	CO586	Connected member	86.16	0.75	-3.72	3.05	2.61
57	CO586	Connected member	-2.75	0.08	0.66	-0.79	0.92
	CO587	Main member	-48.04	-0.07	-3.37	-3.47	0.26
	CO587	Connected member	11.31	-0.05	-0.82	-1.33	0.41
	CO587	Connected member	2.51	0.04	-0.1	0.36	0.18



::LAV/team::

Page: 139/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO587	Connected member	-28.42	0.17	7.3	-4.93	0.51
	CO587	Connected member	-14.91	0.01	0.58	-0.22	0.21
	CO588	Main member	-63.11	-0.09	-7.04	-4.76	0.3
	CO588	Connected member	39.52	-0.06	-0.44	0.24	0.44
57	CO588	Connected member	2.52	0.04	0.32	-0.89	0.18
	CO588	Connected member	-6.58	0.15	1.45	-1.87	0.47
	CO588	Connected member	-40.42	0.01	0.9	-1.75	0.19
	CO589	Main member	-62.64	-0.09	-3.89	-3.43	0.3
57	CO589	Connected member	21.32	-0.06	-0.71	-0.83	0.43
	CO589	Connected member	2.52	0.04	0.04	-0.05	0.18
	CO589	Connected member	-28.92	0.16	4.62	-3.49	0.5
	CO589	Connected member	-25.47	0.01	0.69	-0.72	0.21
57	CO590	Main member	-19.47	-0.06	0.47	1.1	0.23
	CO590	Connected member	30.21	-0.05	-0.62	-0.55	0.41
	CO590	Connected member	2.51	0.04	0.11	-0.29	0.16
	CO590	Connected member	18.76	0.16	-1.37	1.9	0.47
57	CO590	Connected member	-23.16	0.01	0.74	-1.06	0.19
	CO591	Main member	-18.45	-0.83	-3.41	-2.54	3.2
	CO591	Connected member	-3.6	-0.11	-0.68	-0.72	1.05
	CO591	Connected member	2.44	0.03	0	0	0.07
57	CO591	Connected member	-18.45	0.83	3.41	-2.54	3.2
	CO591	Connected member	-3.6	0.11	0.68	-0.72	1.05
	CO592	Main member	39.24	-0.82	1.42	2.19	3.02
	CO592	Connected member	-0.71	-0.09	-0.66	-0.71	0.92
57	CO592	Connected member	2.36	0	0	0	-0.02
	CO592	Connected member	39.24	0.82	-1.42	2.19	3.02
	CO592	Connected member	-0.71	0.09	0.66	-0.71	0.92
	CO593	Main member	39.69	-0.85	1.66	1.46	3.07
57	CO593	Connected member	-0.72	-0.09	-0.66	-0.71	0.94
	CO593	Connected member	2.36	0.01	0	0	-0.02
	CO593	Connected member	39.69	0.85	-1.66	1.46	3.07
	CO593	Connected member	-0.72	0.09	0.66	-0.71	0.94
57	CO594	Main member	87.93	-0.86	6.33	5.08	2.98
	CO594	Connected member	3.37	-0.07	-0.64	-0.73	0.83
	CO594	Connected member	2.31	-0.02	0	0	-0.12
	CO594	Connected member	87.93	0.86	-6.33	5.08	2.98
57	CO594	Connected member	3.37	0.07	0.64	-0.73	0.83
	CO595	Main member	97.74	-0.76	6.39	5.22	2.6
	CO595	Connected member	0.54	-0.08	-0.64	-0.68	0.9
	CO595	Connected member	2.25	0.02	0	0	0.06
57	CO595	Connected member	97.74	0.76	-6.39	5.22	2.6
	CO595	Connected member	0.54	0.08	0.64	-0.68	0.9
	CO596	Main member	-34.28	-0.07	0.1	-0.9	0.26
	CO596	Connected member	11.53	-0.05	-0.84	-1.47	0.41
57	CO596	Connected member	2.51	0.04	-0.14	0.45	0.18
	CO596	Connected member	-16.83	0.17	4.61	-2.71	0.5
	CO596	Connected member	-11.6	0.01	0.55	-0.11	0.21
	CO597	Main member	-49.34	-0.08	-3.55	-2.18	0.29
57	CO597	Connected member	39.73	-0.06	-0.47	0.09	0.43
	CO597	Connected member	2.52	0.04	0.28	-0.79	0.18
	CO597	Connected member	5.01	0.15	-1.22	0.35	0.47
	CO597	Connected member	-37.11	0.01	0.87	-1.64	0.19
57	CO598	Main member	-61.52	-0.09	-3.84	-3.25	0.3
	CO598	Connected member	23.04	-0.06	-0.68	-0.7	0.43
	CO598	Connected member	2.52	0.04	0.07	-0.15	0.18
	CO598	Connected member	-25.66	0.16	3.77	-2.96	0.49
57	CO598	Connected member	-26.8	0.01	0.71	-0.84	0.21
	CO599	Main member	-18.35	-0.06	0.52	1.27	0.23
	CO599	Connected member	31.93	-0.05	-0.59	-0.42	0.41
	CO599	Connected member	2.51	0.04	0.15	-0.39	0.16
57	CO599	Connected member	22.01	0.16	-2.21	2.42	0.47
	CO599	Connected member	-24.49	0.01	0.77	-1.18	0.19
	CO600	Main member	-17.33	-0.83	-3.36	-2.36	3.19
	CO600	Connected member	-1.89	-0.11	-0.65	-0.6	1.05
57	CO600	Connected member	2.44	0.03	0.03	-0.1	0.07
	CO600	Connected member	-15.19	0.83	2.57	-2.02	3.2
	CO600	Connected member	-4.94	0.11	0.71	-0.85	1.04
	CO601	Main member	40.36	-0.82	1.48	2.37	3.02
57	CO601	Connected member	1	-0.09	-0.63	-0.59	0.92
	CO601	Connected member	2.36	0	0.03	-0.1	-0.03
	CO601	Connected member	42.49	0.83	-2.26	2.71	3.02
	CO601	Connected member	-2.05	0.09	0.69	-0.84	0.92
57	CO602	Main member	40.81	-0.85	1.71	1.64	3.07
	CO602	Connected member	1	-0.09	-0.63	-0.59	0.94
	CO602	Connected member	2.36	0	0.03	-0.1	-0.02
	CO602	Connected member	42.95	0.85	-2.49	1.98	3.07
57	CO602	Connected member	-2.05	0.09	0.69	-0.83	0.93
	CO603	Main member	89.05	-0.86	6.39	5.25	2.98
	CO603	Connected member	5.08	-0.07	-0.61	-0.61	0.83
	CO603	Connected member	2.31	-0.02	0.03	-0.09	-0.13
57	CO603	Connected member	91.18	0.86	-7.17	5.59	2.98
	CO603	Connected member	2.03	0.07	0.67	-0.85	0.82
	CO604	Main member	98.86	-0.76	6.44	5.4	2.6
	CO604	Connected member	2.25	-0.08	-0.61	-0.56	0.9
57	CO604	Connected member	2.25	0.02	0.03	-0.09	0.06
	CO604	Connected member	100.99	0.76	-7.22	5.73	2.6
	CO604	Connected member	-0.79	0.08	0.66	-0.8	0.89
	CO605	Main member	-33.16	-0.07	0.15	-0.72	0.26
57	CO605	Connected member	13.25	-0.05	-0.82	-1.34	0.41
	CO605	Connected member	2.51	0.04	-0.1	0.36	0.17
	CO605	Connected member	-13.57	0.17	3.77	-2.19	0.5
	CO605	Connected member	-12.93	0.01	0.57	-0.23	0.21
57	CO606	Main member	-48.22	-0.08	-3.51	-2	0.29
	CO606	Connected member	41.45	-0.06	-0.44	0.22	0.43



::LAV/team::

Page: 140/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO606	Connected member	2.52	0.04	0.32	-0.88	0.17
	CO606	Connected member	8.26	0.15	-2.06	0.87	0.47
	CO606	Connected member	-38.44	0.01	0.9	-1.76	0.19
	CO607	Main member	-57.9	-0.09	-2.92	-2.67	0.3
57	CO607	Connected member	21.72	-0.06	-0.71	-0.83	0.43
	CO607	Connected member	2.52	0.04	0.04	-0.05	0.18
	CO607	Connected member	-24.19	0.16	3.65	-2.73	0.49
	CO607	Connected member	-25.05	0.01	0.69	-0.72	0.21
57	CO608	Main member	-14.74	-0.06	1.44	1.85	0.23
	CO608	Connected member	30.61	-0.05	-0.62	-0.55	0.4
	CO608	Connected member	2.51	0.04	0.11	-0.29	0.16
	CO608	Connected member	23.48	0.16	-2.33	2.65	0.47
57	CO608	Connected member	-22.74	0.01	0.74	-1.06	0.19
	CO609	Main member	-13.72	-0.83	-2.44	-1.79	3.19
	CO609	Connected member	-3.19	-0.11	-0.68	-0.72	1.04
	CO609	Connected member	2.44	0.02	0	0	0.06
57	CO609	Connected member	-13.72	0.83	2.44	-1.79	3.19
	CO609	Connected member	-3.19	0.11	0.68	-0.72	1.04
	CO610	Main member	43.96	-0.83	2.39	2.94	3.02
	CO610	Connected member	-0.3	-0.09	-0.66	-0.72	0.91
57	CO610	Connected member	2.36	0	0	0	-0.03
	CO610	Connected member	43.96	0.83	-2.39	2.94	3.02
	CO610	Connected member	-0.3	0.09	0.66	-0.72	0.91
	CO611	Main member	44.42	-0.85	2.62	2.21	3.07
57	CO611	Connected member	-0.31	-0.09	-0.66	-0.71	0.93
	CO611	Connected member	2.35	0	0	0	-0.03
	CO611	Connected member	44.42	0.85	-2.62	2.21	3.07
	CO611	Connected member	-0.31	0.09	0.66	-0.71	0.93
57	CO612	Main member	92.65	-0.86	7.29	5.82	2.97
	CO612	Connected member	3.78	-0.07	-0.64	-0.73	0.82
	CO612	Connected member	2.3	-0.02	0	0	-0.13
	CO612	Connected member	92.65	0.86	-7.29	5.82	2.97
57	CO612	Connected member	3.78	0.07	0.64	-0.73	0.82
	CO613	Main member	102.46	-0.76	7.35	5.96	2.59
	CO613	Connected member	0.95	-0.08	-0.63	-0.68	0.89
	CO613	Connected member	2.25	0.02	0	0	0.05
57	CO613	Connected member	102.46	0.76	-7.35	5.96	2.59
	CO613	Connected member	0.95	0.08	0.63	-0.68	0.89
	CO614	Main member	-29.55	-0.07	1.06	-0.14	0.25
	CO614	Connected member	11.94	-0.05	-0.84	-1.47	0.41
57	CO614	Connected member	2.51	0.04	-0.14	0.45	0.17
	CO614	Connected member	-12.1	0.17	3.65	-1.95	0.5
	CO614	Connected member	-11.19	0.01	0.54	-0.11	0.21
	CO615	Main member	-44.61	-0.08	-2.59	-1.42	0.29
57	CO615	Connected member	40.13	-0.06	-0.47	0.09	0.43
	CO615	Connected member	2.52	0.04	0.28	-0.79	0.17
	CO615	Connected member	9.73	0.15	-2.19	1.1	0.47
	CO615	Connected member	-36.69	0.01	0.87	-1.64	0.19
57	CO616	Main member	-56.78	-0.09	-2.88	-2.49	0.3
	CO616	Connected member	23.44	-0.06	-0.68	-0.71	0.43
	CO616	Connected member	2.52	0.04	0.07	-0.15	0.18
	CO616	Connected member	-20.93	0.16	2.81	-2.21	0.49
57	CO616	Connected member	-26.39	0.01	0.71	-0.84	0.2
	CO617	Main member	-13.62	-0.06	1.49	2.03	0.23
	CO617	Connected member	32.33	-0.05	-0.59	-0.43	0.41
	CO617	Connected member	2.5	0.04	0.15	-0.39	0.16
57	CO617	Connected member	26.73	0.15	-3.17	3.17	0.47
	CO617	Connected member	-24.08	0.01	0.77	-1.18	0.19
	CO618	Main member	-12.6	-0.83	-2.39	-1.61	3.19
	CO618	Connected member	-1.48	-0.11	-0.65	-0.6	1.04
57	CO618	Connected member	2.44	0.02	0.03	-0.1	0.06
	CO618	Connected member	-10.46	0.83	1.6	-1.26	3.19
	CO618	Connected member	-4.53	0.11	0.71	-0.85	1.03
	CO619	Main member	45.08	-0.83	2.44	3.12	3.02
57	CO619	Connected member	1.41	-0.09	-0.63	-0.59	0.91
	CO619	Connected member	2.36	0	0.03	-0.1	-0.04
	CO619	Connected member	47.22	0.83	-3.22	3.46	3.02
	CO619	Connected member	-1.64	0.09	0.69	-0.84	0.91
57	CO620	Main member	45.54	-0.85	2.67	2.39	3.07
	CO620	Connected member	1.41	-0.09	-0.63	-0.59	0.93
	CO620	Connected member	2.35	0	0.03	-0.1	-0.03
	CO620	Connected member	47.67	0.85	-3.46	2.73	3.07
57	CO620	Connected member	-1.64	0.09	0.68	-0.84	0.92
	CO621	Main member	93.77	-0.86	7.35	5.99	2.97
	CO621	Connected member	5.49	-0.07	-0.61	-0.61	0.82
	CO621	Connected member	2.3	-0.02	0.03	-0.09	-0.14
57	CO621	Connected member	95.9	0.86	-8.13	6.33	2.97
	CO621	Connected member	2.44	0.07	0.67	-0.85	0.81
	CO622	Main member	103.58	-0.76	7.4	6.13	2.59
	CO622	Connected member	2.66	-0.08	-0.61	-0.56	0.89
57	CO622	Connected member	2.25	0.02	0.03	-0.09	0.05
	CO622	Connected member	105.71	0.76	-8.18	6.47	2.59
	CO622	Connected member	-0.38	0.08	0.66	-0.81	0.88
	CO623	Main member	-28.43	-0.07	1.11	0.03	0.26
57	CO623	Connected member	13.65	-0.05	-0.81	-1.35	0.41
	CO623	Connected member	2.51	0.04	-0.1	0.36	0.17
	CO623	Connected member	-8.84	0.17	2.8	-1.43	0.5
	CO623	Connected member	-12.52	0.01	0.57	-0.24	0.21
57	CO624	Main member	-43.49	-0.08	-2.54	-1.25	0.29
	CO624	Connected member	41.85	-0.06	-0.44	0.21	0.43
	CO624	Connected member	2.51	0.04	0.32	-0.88	0.17
	CO624	Connected member	12.98	0.15	-3.03	1.62	0.47
57	CO624	Connected member	-38.02	0.01	0.9	-1.76	0.19
	CO625	Main member	-16.02	0	-0.7	-0.49	0.01



::LAVteam::

Page: 141/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO625	Connected member	-0.96	0	-0.68	-0.75	0.01
	CO625	Connected member	2.47	0	0	0	0.01
	CO625	Connected member	-16.02	0	0.7	-0.49	0.01
57	CO625	Connected member	-0.96	0	0.68	-0.75	0.01
	CO626	Main member	-27.03	-0.01	-3.31	-2.52	0.02
	CO626	Connected member	-2.41	0	-0.69	-0.74	0.01
57	CO626	Connected member	2.47	0	0	0	0.01
	CO626	Connected member	-27.03	0.01	3.31	-2.52	0.02
	CO626	Connected member	-2.41	0	0.69	-0.74	0.01
57	CO627	Main member	-30.53	-0.01	-4.02	-3.08	0.02
	CO627	Connected member	-2.71	0	-0.69	-0.74	0.01
	CO627	Connected member	2.48	0	0	0	0.01
57	CO627	Connected member	-30.53	0.01	4.02	-3.08	0.02
	CO627	Connected member	-2.71	0	0.69	-0.74	0.01
	CO628	Main member	-19.52	0	-1.41	-1.05	0.01
57	CO628	Connected member	-1.27	0	-0.69	-0.75	0.01
	CO628	Connected member	2.48	0	0	0	0.01
	CO628	Connected member	-19.52	0	1.41	-1.05	0.01
57	CO628	Connected member	-1.27	0	0.69	-0.75	0.01
	CO629	Main member	-39.37	-0.01	-5.47	-4.23	0.02
	CO629	Connected member	-2.98	0	-0.69	-0.74	0.01
57	CO629	Connected member	2.49	0	0	0	0.01
	CO629	Connected member	-39.37	0.01	5.47	-4.23	0.02
	CO629	Connected member	-2.98	0	0.69	-0.74	0.01
57	CO630	Main member	-50.39	-0.01	-8.09	-6.27	0.02
	CO630	Connected member	-4.43	0	-0.69	-0.73	0.01
	CO630	Connected member	2.48	0	0	0	0.01
57	CO630	Connected member	-50.39	0.01	8.09	-6.27	0.02
	CO630	Connected member	-4.43	0	0.69	-0.73	0.01
	CO631	Main member	-53.89	-0.01	-8.8	-6.84	0.03
57	CO631	Connected member	-4.73	0	-0.69	-0.73	0.01
	CO631	Connected member	2.49	0	0	0	0.01
	CO631	Connected member	-53.89	0.01	8.8	-6.84	0.03
57	CO631	Connected member	-4.73	0	0.69	-0.73	0.01
	CO632	Main member	-42.88	-0.01	-6.19	-4.79	0.02
	CO632	Connected member	-3.28	0	-0.69	-0.74	0.01
57	CO632	Connected member	2.49	0	0	0	0.01
	CO632	Connected member	-42.88	0.01	6.19	-4.79	0.02
	CO632	Connected member	-3.28	0	0.69	-0.74	0.01
57	CO633	Main member	-56.23	-0.01	-9.28	-7.21	0.03
	CO633	Connected member	-4.93	0	-0.69	-0.73	0.01
	CO633	Connected member	2.49	0	0	0	0.01
57	CO633	Connected member	-56.23	0.01	9.28	-7.21	0.03
	CO633	Connected member	-4.93	0	0.69	-0.73	0.01
	CO634	Main member	-55.48	-0.01	-9.25	-7.1	0.03
57	CO634	Connected member	-3.79	0	-0.68	-0.64	0.01
	CO634	Connected member	2.49	0	0.02	-0.07	0.01
	CO634	Connected member	-54.06	0.01	8.72	-6.86	0.02
57	CO634	Connected member	-5.83	0	0.71	-0.81	0.01
	CO635	Main member	-59.74	-0.01	-10	-7.78	0.03
	CO635	Connected member	-5.24	0	-0.7	-0.73	0.02
57	CO635	Connected member	2.49	0	0	0	0.01
	CO635	Connected member	-59.74	0.01	10	-7.78	0.03
	CO635	Connected member	-5.24	0	0.7	-0.73	0.02
57	CO636	Main member	-58.99	-0.01	-9.97	-7.66	0.03
	CO636	Connected member	-4.09	0	-0.68	-0.64	0.02
	CO636	Connected member	2.49	0	0.02	-0.07	0.01
57	CO636	Connected member	-57.56	0.01	9.44	-7.43	0.03
	CO636	Connected member	-6.13	0	0.71	-0.81	0.01
	CO637	Main member	-48.72	-0.01	-7.39	-5.73	0.02
57	CO637	Connected member	-3.79	0	-0.69	-0.74	0.01
	CO637	Connected member	2.49	0	0	0	0.01
	CO637	Connected member	-48.72	0.01	7.39	-5.73	0.02
57	CO637	Connected member	-3.79	0	0.69	-0.74	0.01
	CO638	Main member	-47.97	-0.01	-7.35	-5.61	0.02
	CO638	Connected member	-2.64	0	-0.67	-0.65	0.01
57	CO638	Connected member	2.49	0	0.02	-0.07	0.01
	CO638	Connected member	-46.54	0.01	6.82	-5.38	0.02
	CO638	Connected member	-4.68	0	0.71	-0.82	0.01
57	CO639	Main member	-69.49	-0.04	-9.46	-7.53	0.14
	CO639	Connected member	4.47	-0.02	-0.7	-0.76	0.18
	CO639	Connected member	2.5	0.02	0.01	-0.02	0.08
57	CO639	Connected member	-55.97	0.07	9.75	-7.55	0.22
	CO639	Connected member	-14.3	0.01	0.7	-0.72	0.1
	CO640	Main member	-52.23	-0.03	-7.71	-5.7	0.12
57	CO640	Connected member	8.05	-0.02	-0.67	-0.64	0.17
	CO640	Connected member	2.5	0.02	0.05	-0.12	0.08
	CO640	Connected member	-36.87	0.07	7.34	-5.37	0.21
57	CO640	Connected member	-13.39	0.01	0.72	-0.85	0.09
	CO641	Main member	-51.8	-0.33	-9.26	-7.17	1.32
	CO641	Connected member	-5.52	-0.05	-0.69	-0.72	0.45
57	CO641	Connected member	2.47	0.02	0	0	0.05
	CO641	Connected member	-51.8	0.33	9.26	-7.17	1.32
	CO641	Connected member	-5.52	0.05	0.69	-0.72	0.45
57	CO642	Main member	-28.71	-0.32	-7.32	-5.24	1.26
	CO642	Connected member	-4.37	-0.04	-0.68	-0.71	0.42
	CO642	Connected member	2.44	0.01	0	0	0.03
57	CO642	Connected member	-28.71	0.32	7.32	-5.24	1.26
	CO642	Connected member	-4.37	0.04	0.68	-0.71	0.42
	CO643	Main member	-28.53	-0.33	-7.23	-5.54	1.28
57	CO643	Connected member	-4.37	-0.05	-0.68	-0.71	0.43
	CO643	Connected member	2.44	0.01	0	0	0.04
	CO643	Connected member	-28.53	0.33	7.23	-5.54	1.28
	CO643	Connected member	-4.37	0.05	0.68	-0.71	0.43



::LAV/team::

Page: 142/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO644	Main member	-9.21	-0.32	-5.34	-4.05	1.25
	CO644	Connected member	-2.74	-0.04	-0.68	-0.72	0.41
	CO644	Connected member	2.42	0.01	0	0	0.02
57	CO644	Connected member	-9.21	0.32	5.34	-4.05	1.25
	CO644	Connected member	-2.74	0.04	0.68	-0.72	0.41
	CO645	Main member	-5.28	-0.29	-5.32	-3.99	1.1
57	CO645	Connected member	-3.87	-0.04	-0.67	-0.7	0.42
	CO645	Connected member	2.4	0.02	0	0	0.07
	CO645	Connected member	-5.28	0.29	5.32	-3.99	1.1
57	CO645	Connected member	-3.87	0.04	0.67	-0.7	0.42
	CO646	Main member	-58.15	-0.03	-7.86	-6.51	0.12
	CO646	Connected member	0.56	-0.02	-0.76	-1.02	0.17
57	CO646	Connected member	2.5	0.02	-0.06	0.18	0.08
	CO646	Connected member	-51.13	0.07	9.75	-7.24	0.22
	CO646	Connected member	-8.75	0.01	0.64	-0.47	0.1
57	CO647	Main member	-64.18	-0.04	-9.32	-7.03	0.14
	CO647	Connected member	11.85	-0.02	-0.61	-0.39	0.18
	CO647	Connected member	2.5	0.02	0.12	-0.32	0.08
57	CO647	Connected member	-42.38	0.06	7.4	-6	0.2
	CO647	Connected member	-18.97	0.01	0.77	-1.09	0.09
	CO648	Main member	-68.75	-0.04	-9.43	-7.42	0.14
57	CO648	Connected member	5.62	-0.02	-0.68	-0.67	0.18
	CO648	Connected member	2.5	0.02	0.04	-0.09	0.08
	CO648	Connected member	-53.79	0.07	9.19	-7.2	0.21
57	CO648	Connected member	-15.19	0.01	0.71	-0.8	0.1
	CO649	Main member	-51.49	-0.03	-7.67	-5.58	0.12
	CO649	Connected member	9.19	-0.02	-0.65	-0.56	0.17
57	CO649	Connected member	2.5	0.02	0.07	-0.18	0.08
	CO649	Connected member	-34.7	0.07	6.78	-5.02	0.2
	CO649	Connected member	-14.28	0.01	0.74	-0.94	0.09
57	CO650	Main member	-51.06	-0.33	-9.23	-7.05	1.31
	CO650	Connected member	-4.38	-0.05	-0.67	-0.63	0.45
	CO650	Connected member	2.47	0.02	0.02	-0.07	0.05
57	CO650	Connected member	-49.63	0.33	8.7	-6.82	1.31
	CO650	Connected member	-6.42	0.05	0.71	-0.8	0.45
	CO651	Main member	-27.97	-0.32	-7.29	-5.12	1.26
57	CO651	Connected member	-3.22	-0.04	-0.66	-0.63	0.42
	CO651	Connected member	2.44	0.01	0.02	-0.06	0.03
	CO651	Connected member	-26.54	0.32	6.76	-4.89	1.26
57	CO651	Connected member	-5.26	0.04	0.7	-0.8	0.42
	CO652	Main member	-27.78	-0.33	-7.19	-5.42	1.28
	CO652	Connected member	-3.22	-0.05	-0.66	-0.63	0.43
57	CO652	Connected member	2.44	0.01	0.02	-0.06	0.04
	CO652	Connected member	-26.35	0.33	6.66	-5.19	1.28
	CO652	Connected member	-5.26	0.04	0.7	-0.8	0.43
57	CO653	Main member	-8.46	-0.32	-5.3	-3.94	1.25
	CO653	Connected member	-1.59	-0.04	-0.66	-0.64	0.41
	CO653	Connected member	2.42	0.01	0.02	-0.06	0.02
57	CO653	Connected member	-7.03	0.32	4.78	-3.7	1.25
	CO653	Connected member	-3.63	0.04	0.69	-0.8	0.4
	CO654	Main member	-4.54	-0.29	-5.28	-3.87	1.1
57	CO654	Connected member	-2.72	-0.04	-0.65	-0.62	0.42
	CO654	Connected member	2.4	0.02	0.02	-0.06	0.07
	CO654	Connected member	-3.11	0.29	4.76	-3.64	1.1
57	CO654	Connected member	-4.76	0.04	0.69	-0.78	0.42
	CO655	Main member	-57.41	-0.04	-7.82	-6.39	0.12
57	CO655	Connected member	1.71	-0.02	-0.74	-0.93	0.17
	CO655	Connected member	2.5	0.02	-0.03	0.12	0.08
	CO655	Connected member	-48.95	0.07	9.19	-6.89	0.22
57	CO655	Connected member	-9.64	0.01	0.66	-0.55	0.1
	CO656	Main member	-63.44	-0.04	-9.29	-6.91	0.14
	CO656	Connected member	13	-0.02	-0.59	-0.3	0.18
57	CO656	Connected member	2.5	0.02	0.14	-0.38	0.08
	CO656	Connected member	-40.21	0.06	6.84	-5.65	0.2
	CO656	Connected member	-19.86	0.01	0.79	-1.18	0.09
57	CO657	Main member	-73	-0.04	-10.18	-8.1	0.14
	CO657	Connected member	4.17	-0.02	-0.7	-0.76	0.18
	CO657	Connected member	2.5	0.02	0.01	-0.02	0.08
57	CO657	Connected member	-59.47	0.07	10.47	-8.12	0.22
	CO657	Connected member	-14.6	0.01	0.7	-0.71	0.1
	CO658	Main member	-55.74	-0.03	-8.43	-6.26	0.12
57	CO658	Connected member	7.75	-0.02	-0.67	-0.64	0.17
	CO658	Connected member	2.5	0.02	0.05	-0.12	0.08
	CO658	Connected member	-40.38	0.07	8.06	-5.93	0.21
57	CO658	Connected member	-13.69	0.01	0.72	-0.85	0.09
	CO659	Main member	-55.31	-0.32	-9.98	-7.73	1.32
	CO659	Connected member	-5.83	-0.05	-0.69	-0.71	0.46
57	CO659	Connected member	2.47	0.02	0	0	0.06
	CO659	Connected member	-55.31	0.32	9.98	-7.73	1.32
	CO659	Connected member	-5.83	0.05	0.69	-0.71	0.46
57	CO660	Main member	-32.21	-0.32	-8.04	-5.8	1.26
	CO660	Connected member	-4.67	-0.05	-0.68	-0.71	0.43
	CO660	Connected member	2.44	0.01	0	0	0.04
57	CO660	Connected member	-32.21	0.32	8.04	-5.8	1.26
	CO660	Connected member	-4.67	0.05	0.68	-0.71	0.43
	CO661	Main member	-32.03	-0.32	-7.94	-6.1	1.29
57	CO661	Connected member	-4.67	-0.05	-0.68	-0.71	0.43
	CO661	Connected member	2.44	0.01	0	0	0.04
	CO661	Connected member	-32.03	0.32	7.94	-6.1	1.29
57	CO661	Connected member	-4.67	0.05	0.68	-0.71	0.43
	CO662	Main member	-12.71	-0.32	-6.06	-4.61	1.25
	CO662	Connected member	-3.04	-0.04	-0.68	-0.72	0.41
	CO662	Connected member	2.42	0.01	0	0	0.02
	CO662	Connected member	-12.71	0.32	6.06	-4.61	1.25



::LAV/team::

Page: 143/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO662	Connected member	-3.04	0.04	0.68	-0.72	0.41
	CO663	Main member	-8.78	-0.29	-6.03	-4.55	1.11
	CO663	Connected member	-4.17	-0.04	-0.67	-0.7	0.42
	CO663	Connected member	2.4	0.02	0	0	0.07
	CO663	Connected member	-8.78	0.29	6.03	-4.55	1.11
57	CO663	Connected member	-4.17	0.04	0.67	-0.7	0.42
	CO664	Main member	-61.66	-0.04	-8.58	-7.08	0.12
	CO664	Connected member	0.26	-0.02	-0.76	-1.01	0.18
	CO664	Connected member	2.5	0.02	-0.06	0.18	0.08
	CO664	Connected member	-54.63	0.07	10.47	-7.8	0.22
57	CO664	Connected member	-9.05	0.01	0.64	-0.47	0.1
	CO665	Main member	-67.69	-0.04	-10.04	-7.59	0.14
	CO665	Connected member	11.55	-0.02	-0.61	-0.39	0.18
	CO665	Connected member	2.5	0.02	0.12	-0.32	0.08
	CO665	Connected member	-45.88	0.07	8.12	-6.56	0.2
57	CO665	Connected member	-19.27	0.01	0.77	-1.09	0.09
	CO666	Main member	-72.26	-0.04	-10.15	-7.98	0.14
	CO666	Connected member	5.32	-0.02	-0.68	-0.67	0.18
	CO666	Connected member	2.5	0.02	0.04	-0.09	0.08
	CO666	Connected member	-57.3	0.07	9.9	-7.77	0.22
57	CO666	Connected member	-15.49	0.01	0.71	-0.8	0.1
	CO667	Main member	-54.99	-0.03	-8.39	-6.15	0.12
	CO667	Connected member	8.89	-0.02	-0.65	-0.56	0.17
	CO667	Connected member	2.5	0.02	0.07	-0.18	0.08
	CO667	Connected member	-38.2	0.07	7.5	-5.58	0.21
57	CO667	Connected member	-14.59	0.01	0.74	-0.94	0.09
	CO668	Main member	-54.56	-0.32	-9.95	-7.61	1.32
	CO668	Connected member	-4.68	-0.05	-0.67	-0.63	0.46
	CO668	Connected member	2.47	0.02	0.02	-0.07	0.06
	CO668	Connected member	-53.13	0.33	9.42	-7.38	1.32
57	CO668	Connected member	-6.72	0.05	0.71	-0.8	0.45
	CO669	Main member	-31.47	-0.32	-8	-5.69	1.26
	CO669	Connected member	-3.53	-0.05	-0.67	-0.63	0.43
	CO669	Connected member	2.44	0.01	0.02	-0.06	0.04
	CO669	Connected member	-30.04	0.32	7.47	-5.45	1.26
57	CO669	Connected member	-5.56	0.04	0.7	-0.8	0.42
	CO670	Main member	-31.29	-0.32	-7.91	-5.98	1.29
	CO670	Connected member	-3.53	-0.05	-0.66	-0.63	0.43
	CO670	Connected member	2.44	0.01	0.02	-0.06	0.04
	CO670	Connected member	-29.86	0.33	7.38	-5.75	1.29
57	CO670	Connected member	-5.57	0.05	0.7	-0.79	0.43
	CO671	Main member	-11.96	-0.32	-6.02	-4.5	1.25
	CO671	Connected member	-1.9	-0.04	-0.66	-0.63	0.41
	CO671	Connected member	2.42	0.01	0.02	-0.06	0.02
	CO671	Connected member	-10.54	0.32	5.49	-4.27	1.25
57	CO671	Connected member	-3.93	0.04	0.7	-0.8	0.41
	CO672	Main member	-8.04	-0.29	-6	-4.43	1.11
	CO672	Connected member	-3.03	-0.04	-0.66	-0.62	0.42
	CO672	Connected member	2.4	0.02	0.02	-0.06	0.07
	CO672	Connected member	-6.61	0.29	5.47	-4.2	1.1
57	CO672	Connected member	-5.06	0.04	0.69	-0.78	0.42
	CO673	Main member	-60.91	-0.04	-8.54	-6.96	0.13
	CO673	Connected member	1.41	-0.02	-0.74	-0.93	0.18
	CO673	Connected member	2.5	0.02	-0.03	0.12	0.08
	CO673	Connected member	-52.46	0.07	9.9	-7.45	0.22
57	CO673	Connected member	-9.95	0.01	0.66	-0.55	0.1
	CO674	Main member	-66.94	-0.04	-10.01	-7.47	0.14
	CO674	Connected member	12.7	-0.02	-0.59	-0.3	0.18
	CO674	Connected member	2.5	0.02	0.14	-0.38	0.08
	CO674	Connected member	-43.71	0.06	7.55	-6.21	0.2
57	CO674	Connected member	-20.16	0.01	0.79	-1.18	0.09
	CO675	Main member	-61.98	-0.04	-7.56	-6.05	0.14
	CO675	Connected member	5.61	-0.02	-0.7	-0.77	0.18
	CO675	Connected member	2.51	0.02	0.01	-0.02	0.08
	CO675	Connected member	-48.46	0.07	7.85	-6.07	0.21
57	CO675	Connected member	-13.15	0.01	0.69	-0.72	0.1
	CO676	Main member	-44.72	-0.03	-5.81	-4.22	0.11
	CO676	Connected member	9.19	-0.02	-0.67	-0.65	0.17
	CO676	Connected member	2.5	0.02	0.05	-0.12	0.08
	CO676	Connected member	-29.37	0.07	5.45	-3.89	0.2
57	CO676	Connected member	-12.24	0.01	0.72	-0.86	0.09
	CO677	Main member	-44.29	-0.33	-7.37	-5.69	1.31
	CO677	Connected member	-4.38	-0.05	-0.69	-0.73	0.44
	CO677	Connected member	2.47	0.01	0	0	0.04
	CO677	Connected member	-44.29	0.33	7.37	-5.69	1.31
57	CO677	Connected member	-4.38	0.05	0.69	-0.73	0.44
	CO678	Main member	-21.2	-0.32	-5.42	-3.77	1.26
	CO678	Connected member	-3.22	-0.04	-0.68	-0.72	0.41
	CO678	Connected member	2.44	0.01	0	0	0.02
	CO678	Connected member	-21.2	0.32	5.42	-3.77	1.26
57	CO678	Connected member	-3.22	0.04	0.68	-0.72	0.41
	CO679	Main member	-21.02	-0.33	-5.33	-4.06	1.28
	CO679	Connected member	-3.22	-0.04	-0.68	-0.72	0.42
	CO679	Connected member	2.44	0.01	0	0	0.03
	CO679	Connected member	-21.02	0.33	5.33	-4.06	1.28
57	CO679	Connected member	-3.22	0.04	0.68	-0.72	0.42
	CO680	Main member	-1.7	-0.32	-3.45	-2.58	1.25
	CO680	Connected member	-1.59	-0.04	-0.67	-0.73	0.4
	CO680	Connected member	2.42	0.01	0	0	0.01
	CO680	Connected member	-1.7	0.32	3.45	-2.58	1.25
57	CO680	Connected member	-1.59	0.04	0.67	-0.73	0.4
	CO681	Main member	2.22	-0.29	-3.43	-2.52	1.1
	CO681	Connected member	-2.72	-0.04	-0.67	-0.71	0.41
	CO681	Connected member	2.4	0.02	0	0	0.06



::LAV/team::

Page: 144/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO681	Connected member	2.22	0.29	3.43	-2.52	1.1
	CO681	Connected member	-2.72	0.04	0.67	-0.71	0.41
	CO682	Main member	-50.64	-0.03	-5.96	-5.03	0.12
57	CO682	Connected member	1.7	-0.02	-0.75	-1.02	0.17
	CO682	Connected member	2.5	0.02	-0.06	0.18	0.08
	CO682	Connected member	-43.62	0.07	7.85	-5.76	0.22
57	CO682	Connected member	-7.6	0.01	0.64	-0.48	0.1
	CO683	Main member	-56.67	-0.04	-7.43	-5.54	0.13
	CO683	Connected member	12.99	-0.02	-0.61	-0.4	0.18
57	CO683	Connected member	2.51	0.02	0.11	-0.32	0.08
	CO683	Connected member	-34.88	0.06	5.51	-4.52	0.2
	CO683	Connected member	-17.81	0.01	0.77	-1.1	0.09
57	CO684	Main member	-61.23	-0.04	-7.53	-5.93	0.14
	CO684	Connected member	6.76	-0.02	-0.68	-0.68	0.18
	CO684	Connected member	2.51	0.02	0.04	-0.09	0.08
57	CO684	Connected member	-46.28	0.07	7.29	-5.72	0.21
	CO684	Connected member	-14.04	0.01	0.71	-0.81	0.1
	CO685	Main member	-43.97	-0.03	-5.78	-4.1	0.11
57	CO685	Connected member	10.33	-0.02	-0.65	-0.57	0.17
	CO685	Connected member	2.5	0.02	0.07	-0.18	0.08
	CO685	Connected member	-27.19	0.06	4.89	-3.54	0.2
57	CO685	Connected member	-13.13	0.01	0.73	-0.95	0.09
	CO686	Main member	-43.55	-0.33	-7.33	-5.57	1.31
	CO686	Connected member	-3.23	-0.05	-0.67	-0.64	0.44
57	CO686	Connected member	2.47	0.01	0.02	-0.07	0.04
	CO686	Connected member	-42.12	0.33	6.8	-5.34	1.31
	CO686	Connected member	-5.27	0.05	0.71	-0.81	0.44
57	CO687	Main member	-20.46	-0.32	-5.39	-3.65	1.26
	CO687	Connected member	-2.08	-0.04	-0.66	-0.64	0.41
	CO687	Connected member	2.44	0.01	0.02	-0.06	0.02
57	CO687	Connected member	-19.03	0.32	4.86	-3.42	1.26
	CO687	Connected member	-4.12	0.04	0.7	-0.81	0.41
	CO688	Main member	-20.27	-0.33	-5.3	-3.94	1.28
57	CO688	Connected member	-2.08	-0.04	-0.66	-0.64	0.42
	CO688	Connected member	2.44	0.01	0.02	-0.06	0.03
	CO688	Connected member	-18.85	0.33	4.77	-3.71	1.28
57	CO688	Connected member	-4.12	0.04	0.7	-0.81	0.42
	CO689	Main member	-0.96	-0.32	-3.41	-2.47	1.25
	CO689	Connected member	-0.45	-0.04	-0.66	-0.65	0.4
57	CO689	Connected member	2.42	0.01	0.02	-0.06	0.01
	CO689	Connected member	0.47	0.32	2.89	-2.24	1.25
	CO689	Connected member	-2.48	0.04	0.69	-0.81	0.4
57	CO690	Main member	2.97	-0.29	-3.39	-2.41	1.1
	CO690	Connected member	-1.58	-0.04	-0.65	-0.63	0.41
	CO690	Connected member	2.4	0.02	0.02	-0.06	0.06
57	CO690	Connected member	4.39	0.29	2.86	-2.18	1.1
	CO690	Connected member	-3.61	0.04	0.69	-0.79	0.41
	CO691	Main member	-49.89	-0.03	-5.93	-4.91	0.12
57	CO691	Connected member	2.85	-0.02	-0.73	-0.94	0.17
	CO691	Connected member	2.5	0.02	-0.03	0.12	0.08
	CO691	Connected member	-41.44	0.07	7.29	-5.41	0.22
57	CO691	Connected member	-8.49	0.01	0.65	-0.56	0.1
	CO692	Main member	-55.92	-0.04	-7.39	-5.43	0.14
	CO692	Connected member	14.14	-0.02	-0.59	-0.32	0.18
57	CO692	Connected member	2.51	0.02	0.14	-0.38	0.08
	CO692	Connected member	-32.7	0.06	4.94	-4.17	0.2
	CO692	Connected member	-18.71	0.01	0.79	-1.18	0.09
57	CO693	Main member	-63.65	-0.04	-8.26	-6.59	0.14
	CO693	Connected member	4.98	-0.02	-0.7	-0.76	0.18
	CO693	Connected member	2.5	0.02	0.01	-0.02	0.08
57	CO693	Connected member	-50.13	0.07	8.55	-6.61	0.21
	CO693	Connected member	-13.79	0.01	0.69	-0.72	0.1
	CO694	Main member	-46.39	-0.03	-6.51	-4.76	0.11
57	CO694	Connected member	8.55	-0.02	-0.67	-0.65	0.17
	CO694	Connected member	2.5	0.02	0.05	-0.12	0.08
	CO694	Connected member	-31.04	0.07	6.15	-4.43	0.2
57	CO694	Connected member	-12.88	0.01	0.72	-0.86	0.09
	CO695	Main member	-45.96	-0.33	-8.07	-6.23	1.31
	CO695	Connected member	-5.02	-0.05	-0.69	-0.72	0.45
57	CO695	Connected member	2.47	0.02	0	0	0.05
	CO695	Connected member	-45.96	0.33	8.07	-6.23	1.31
	CO695	Connected member	-5.02	0.05	0.69	-0.72	0.45
57	CO696	Main member	-22.87	-0.32	-6.12	-4.3	1.26
	CO696	Connected member	-3.86	-0.04	-0.68	-0.72	0.42
	CO696	Connected member	2.44	0.01	0	0	0.03
57	CO696	Connected member	-22.87	0.32	6.12	-4.3	1.26
	CO696	Connected member	-3.86	0.04	0.68	-0.72	0.42
	CO697	Main member	-22.69	-0.33	-6.03	-4.6	1.28
57	CO697	Connected member	-3.87	-0.04	-0.68	-0.72	0.42
	CO697	Connected member	2.43	0.01	0	0	0.03
	CO697	Connected member	-22.69	0.33	6.03	-4.6	1.28
57	CO697	Connected member	-3.87	0.04	0.68	-0.72	0.42
	CO698	Main member	-3.37	-0.32	-4.15	-3.12	1.25
	CO698	Connected member	-2.23	-0.04	-0.67	-0.72	0.4
57	CO698	Connected member	2.42	0.01	0	0	0.01
	CO698	Connected member	-3.37	0.32	4.15	-3.12	1.25
	CO698	Connected member	-2.23	0.04	0.67	-0.72	0.4
57	CO699	Main member	0.55	-0.29	-4.13	-3.06	1.1
	CO699	Connected member	-3.36	-0.04	-0.67	-0.7	0.41
	CO699	Connected member	2.39	0.02	0	0	0.07
57	CO699	Connected member	0.55	0.29	4.13	-3.06	1.1
	CO699	Connected member	-3.36	0.04	0.67	-0.7	0.41
	CO700	Main member	-52.31	-0.03	-6.66	-5.57	0.12
57	CO700	Connected member	1.06	-0.02	-0.75	-1.02	0.17



::LAV/team::

Page: 145/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO700	Connected member	2.5	0.02	-0.06	0.18	0.08
	CO700	Connected member	-45.29	0.07	8.55	-6.3	0.22
	CO700	Connected member	-8.24	0.01	0.64	-0.47	0.1
57	CO701	Main member	-58.34	-0.04	-8.13	-6.08	0.14
	CO701	Connected member	12.35	-0.02	-0.61	-0.39	0.18
	CO701	Connected member	2.5	0.02	0.11	-0.32	0.08
57	CO701	Connected member	-36.54	0.06	6.21	-5.06	0.2
	CO701	Connected member	-18.46	0.01	0.77	-1.1	0.09
	CO702	Main member	-67.16	-0.04	-8.98	-7.16	0.14
57	CO702	Connected member	4.67	-0.02	-0.7	-0.76	0.18
	CO702	Connected member	2.5	0.02	0.01	-0.02	0.08
	CO702	Connected member	-53.63	0.07	9.27	-7.18	0.21
57	CO702	Connected member	-14.09	0.01	0.69	-0.72	0.1
	CO703	Main member	-49.9	-0.03	-7.23	-5.32	0.11
	CO703	Connected member	8.25	-0.02	-0.67	-0.64	0.17
57	CO703	Connected member	2.5	0.02	0.05	-0.12	0.08
	CO703	Connected member	-34.54	0.07	6.87	-4.99	0.2
	CO703	Connected member	-13.19	0.01	0.72	-0.86	0.09
57	CO704	Main member	-49.47	-0.33	-8.79	-6.79	1.31
	CO704	Connected member	-5.32	-0.05	-0.69	-0.72	0.45
	CO704	Connected member	2.47	0.02	0	0	0.05
57	CO704	Connected member	-49.47	0.33	8.79	-6.79	1.31
	CO704	Connected member	-5.32	0.05	0.69	-0.72	0.45
	CO705	Main member	-26.38	-0.32	-6.84	-4.87	1.26
57	CO705	Connected member	-4.17	-0.04	-0.68	-0.71	0.42
	CO705	Connected member	2.44	0.01	0	0	0.03
	CO705	Connected member	-26.38	0.32	6.84	-4.87	1.26
57	CO705	Connected member	-4.17	0.04	0.68	-0.71	0.42
	CO706	Main member	-26.19	-0.33	-6.75	-5.16	1.28
	CO706	Connected member	-4.17	-0.05	-0.68	-0.71	0.43
57	CO706	Connected member	2.44	0.01	0	0	0.04
	CO706	Connected member	-26.19	0.33	6.75	-5.16	1.28
	CO706	Connected member	-4.17	0.05	0.68	-0.71	0.43
57	CO707	Main member	-6.87	-0.32	-4.86	-3.68	1.25
	CO707	Connected member	-2.54	-0.04	-0.68	-0.72	0.4
	CO707	Connected member	2.42	0.01	0	0	0.02
57	CO707	Connected member	-6.87	0.32	4.86	-3.68	1.25
	CO707	Connected member	-2.54	0.04	0.68	-0.72	0.4
	CO708	Main member	-2.95	-0.29	-4.84	-3.62	1.1
57	CO708	Connected member	-3.67	-0.04	-0.67	-0.7	0.42
	CO708	Connected member	2.4	0.02	0	0	0.07
	CO708	Connected member	-2.95	0.29	4.84	-3.62	1.1
57	CO708	Connected member	-3.67	0.04	0.67	-0.7	0.42
	CO709	Main member	-55.82	-0.03	-7.38	-6.13	0.12
57	CO709	Connected member	0.76	-0.02	-0.75	-1.02	0.17
	CO709	Connected member	2.5	0.02	-0.06	0.18	0.08
	CO709	Connected member	-48.79	0.07	9.27	-6.86	0.22
57	CO709	Connected member	-8.55	0.01	0.64	-0.47	0.1
	CO710	Main member	-61.84	-0.04	-8.85	-6.65	0.14
57	CO710	Connected member	12.05	-0.02	-0.61	-0.39	0.18
	CO710	Connected member	2.5	0.02	0.11	-0.32	0.08
	CO710	Connected member	-40.05	0.06	6.92	-5.62	0.2
57	CO710	Connected member	-18.76	0.01	0.77	-1.09	0.09
	CO711	Main member	-56.14	-0.04	-6.37	-5.11	0.14
57	CO711	Connected member	6.12	-0.02	-0.7	-0.77	0.18
	CO711	Connected member	2.5	0.02	0.01	-0.02	0.08
	CO711	Connected member	-42.62	0.07	6.66	-5.13	0.21
57	CO711	Connected member	-12.64	0.01	0.69	-0.73	0.09
	CO712	Main member	-38.88	-0.03	-4.62	-3.29	0.11
57	CO712	Connected member	9.69	-0.02	-0.66	-0.66	0.17
	CO712	Connected member	2.5	0.02	0.05	-0.12	0.07
	CO712	Connected member	-23.53	0.06	4.25	-2.96	0.2
57	CO712	Connected member	-11.73	0.01	0.71	-0.87	0.09
	CO713	Main member	-38.45	-0.33	-6.17	-4.75	1.31
57	CO713	Connected member	-3.87	-0.05	-0.69	-0.73	0.44
	CO713	Connected member	2.47	0.01	0	0	0.04
	CO713	Connected member	-38.45	0.33	6.17	-4.75	1.31
57	CO713	Connected member	-3.87	0.05	0.69	-0.73	0.44
	CO714	Main member	-15.37	-0.32	-4.23	-2.83	1.25
57	CO714	Connected member	-2.72	-0.04	-0.68	-0.73	0.41
	CO714	Connected member	2.44	0.01	0	0	0.02
	CO714	Connected member	-15.37	0.32	4.23	-2.83	1.25
57	CO714	Connected member	-2.72	0.04	0.68	-0.73	0.41
	CO715	Main member	-15.18	-0.33	-4.14	-3.13	1.28
57	CO715	Connected member	-2.72	-0.04	-0.68	-0.73	0.42
	CO715	Connected member	2.44	0.01	0	0	0.02
	CO715	Connected member	-15.18	0.33	4.14	-3.13	1.28
57	CO715	Connected member	-2.72	0.04	0.68	-0.73	0.42
	CO716	Main member	4.13	-0.33	-2.25	-1.65	1.24
57	CO716	Connected member	-1.09	-0.04	-0.67	-0.73	0.39
	CO716	Connected member	2.42	0	0	0	0
	CO716	Connected member	4.13	0.33	2.25	-1.65	1.24
57	CO716	Connected member	-1.09	0.04	0.67	-0.73	0.39
	CO717	Main member	8.06	-0.29	-2.23	-1.59	1.1
57	CO717	Connected member	-2.22	-0.04	-0.67	-0.71	0.41
	CO717	Connected member	2.4	0.02	0	0	0.06
	CO717	Connected member	8.06	0.29	2.23	-1.59	1.1
57	CO717	Connected member	-2.22	0.04	0.67	-0.71	0.41
	CO718	Main member	-44.8	-0.03	-4.77	-4.09	0.12
57	CO718	Connected member	2.21	-0.02	-0.75	-1.03	0.17
	CO718	Connected member	2.5	0.02	-0.05	0.18	0.08
	CO718	Connected member	-37.78	0.07	6.66	-4.82	0.21
57	CO718	Connected member	-7.09	0.01	0.63	-0.48	0.1
	CO719	Main member	-50.82	-0.04	-6.23	-4.6	0.13



::LAVteam::

Page: 146/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO719	Connected member	13.49	-0.02	-0.61	-0.4	0.18
	CO719	Connected member	2.5	0.02	0.11	-0.32	0.08
57	CO719	Connected member	-29.04	0.06	4.31	-3.58	0.2
	CO719	Connected member	-17.31	0.01	0.77	-1.1	0.09
57	CO720	Main member	-45.21	-0.01	-6.67	-5.17	0.02
	CO720	Connected member	-3.49	0	-0.69	-0.74	0.01
57	CO720	Connected member	2.49	0	0	0	0.01
	CO720	Connected member	-45.21	0.01	6.67	-5.17	0.02
57	CO720	Connected member	-3.49	0	0.69	-0.74	0.01
	CO721	Main member	-44.47	-0.01	-6.63	-5.05	0.02
57	CO721	Connected member	-2.34	0	-0.67	-0.66	0.01
	CO721	Connected member	2.49	0	0.02	-0.07	0.01
57	CO721	Connected member	-43.04	0.01	6.1	-4.82	0.02
	CO721	Connected member	-4.38	0	0.71	-0.82	0.01
57	CO722	Main member	-58.47	-0.04	-6.84	-5.49	0.14
	CO722	Connected member	5.92	-0.02	-0.7	-0.77	0.18
57	CO722	Connected member	2.51	0.02	0.01	-0.02	0.08
	CO722	Connected member	-44.96	0.07	7.14	-5.51	0.21
57	CO722	Connected member	-12.84	0.01	0.69	-0.73	0.1
	CO723	Main member	-41.21	-0.03	-5.09	-3.66	0.11
57	CO723	Connected member	9.49	-0.02	-0.66	-0.66	0.17
	CO723	Connected member	2.5	0.02	0.05	-0.12	0.07
57	CO723	Connected member	-25.87	0.07	4.73	-3.33	0.2
	CO723	Connected member	-11.93	0.01	0.72	-0.87	0.09
57	CO724	Main member	-40.79	-0.33	-6.65	-5.12	1.31
	CO724	Connected member	-4.08	-0.05	-0.69	-0.73	0.44
57	CO724	Connected member	2.47	0.01	0	0	0.04
	CO724	Connected member	-40.79	0.33	6.65	-5.12	1.31
57	CO724	Connected member	-4.08	0.05	0.69	-0.73	0.44
	CO725	Main member	-17.7	-0.32	-4.71	-3.21	1.26
57	CO725	Connected member	-2.92	-0.04	-0.68	-0.72	0.41
	CO725	Connected member	2.44	0.01	0	0	0.02
57	CO725	Connected member	-17.7	0.32	4.71	-3.21	1.26
	CO725	Connected member	-2.92	0.04	0.68	-0.72	0.41
57	CO726	Main member	-17.52	-0.33	-4.62	-3.5	1.28
	CO726	Connected member	-2.92	-0.04	-0.68	-0.72	0.42
57	CO726	Connected member	2.44	0.01	0	0	0.02
	CO726	Connected member	-17.52	0.33	4.62	-3.5	1.28
57	CO726	Connected member	-2.92	0.04	0.68	-0.72	0.42
	CO727	Main member	1.8	-0.32	-2.73	-2.03	1.25
57	CO727	Connected member	-1.29	-0.04	-0.67	-0.73	0.39
	CO727	Connected member	2.42	0	0	0	0
57	CO727	Connected member	1.8	0.32	2.73	-2.03	1.25
	CO727	Connected member	-1.29	0.04	0.67	-0.73	0.39
57	CO728	Main member	5.72	-0.29	-2.71	-1.97	1.1
	CO728	Connected member	-2.42	-0.04	-0.67	-0.71	0.41
57	CO728	Connected member	2.4	0.02	0	0	0.06
	CO728	Connected member	5.72	0.29	2.71	-1.97	1.1
57	CO728	Connected member	-2.42	0.04	0.67	-0.71	0.41
	CO729	Main member	-47.13	-0.03	-5.25	-4.47	0.12
57	CO729	Connected member	2.01	-0.02	-0.75	-1.03	0.17
	CO729	Connected member	2.5	0.02	-0.05	0.18	0.08
57	CO729	Connected member	-40.12	0.07	7.14	-5.19	0.22
	CO729	Connected member	-7.3	0.01	0.63	-0.48	0.1
57	CO730	Main member	-53.16	-0.04	-6.71	-4.98	0.13
	CO730	Connected member	13.29	-0.02	-0.61	-0.4	0.18
57	CO730	Connected member	2.5	0.02	0.11	-0.32	0.08
	CO730	Connected member	-31.37	0.06	4.79	-3.96	0.2
57	CO730	Connected member	-17.51	0.01	0.77	-1.1	0.09
	CO731	Main member	-57.73	-0.04	-6.81	-5.37	0.14
57	CO731	Connected member	7.06	-0.02	-0.68	-0.69	0.18
	CO731	Connected member	2.51	0.02	0.04	-0.09	0.08
57	CO731	Connected member	-42.78	0.07	6.57	-5.16	0.21
	CO731	Connected member	-13.73	0.01	0.71	-0.81	0.09
57	CO732	Main member	-40.47	-0.03	-5.06	-3.54	0.11
	CO732	Connected member	10.63	-0.02	-0.65	-0.57	0.17
57	CO732	Connected member	2.5	0.02	0.07	-0.18	0.07
	CO732	Connected member	-23.69	0.06	4.17	-2.98	0.2
57	CO732	Connected member	-12.82	0.01	0.73	-0.95	0.09
	CO733	Main member	-40.04	-0.33	-6.62	-5.01	1.31
57	CO733	Connected member	-2.93	-0.05	-0.67	-0.64	0.44
	CO733	Connected member	2.47	0.01	0.02	-0.06	0.04
57	CO733	Connected member	-38.61	0.33	6.09	-4.77	1.31
	CO733	Connected member	-4.97	0.05	0.71	-0.81	0.44
57	CO734	Main member	-16.96	-0.32	-4.67	-3.09	1.26
	CO734	Connected member	-1.78	-0.04	-0.66	-0.64	0.41
57	CO734	Connected member	2.44	0.01	0.02	-0.06	0.02
	CO734	Connected member	-15.53	0.32	4.15	-2.86	1.25
57	CO734	Connected member	-3.81	0.04	0.7	-0.81	0.41
	CO735	Main member	-16.77	-0.33	-4.58	-3.38	1.28
57	CO735	Connected member	-1.78	-0.04	-0.66	-0.64	0.42
	CO735	Connected member	2.44	0.01	0.02	-0.06	0.02
57	CO735	Connected member	-15.34	0.33	4.05	-3.15	1.28
	CO735	Connected member	-3.81	0.04	0.7	-0.81	0.42
57	CO736	Main member	2.54	-0.32	-2.7	-1.91	1.25
	CO736	Connected member	-0.15	-0.04	-0.65	-0.65	0.39
57	CO736	Connected member	2.42	0	0.02	-0.06	0
	CO736	Connected member	3.97	0.32	2.17	-1.68	1.25
57	CO736	Connected member	-2.18	0.04	0.69	-0.81	0.39
	CO737	Main member	6.47	-0.29	-2.68	-1.85	1.1
57	CO737	Connected member	-1.28	-0.04	-0.65	-0.63	0.41
	CO737	Connected member	2.4	0.02	0.02	-0.06	0.06
57	CO737	Connected member	7.89	0.29	2.15	-1.62	1.1
	CO737	Connected member	-3.31	0.04	0.69	-0.8	0.41



::LAV/team::

Page: 147/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO738	Main member	-46.39	-0.03	-5.21	-4.35	0.12
	CO738	Connected member	3.15	-0.02	-0.73	-0.94	0.17
	CO738	Connected member	2.5	0.02	-0.03	0.12	0.08
57	CO738	Connected member	-37.94	0.07	6.57	-4.84	0.21
	CO738	Connected member	-8.19	0.01	0.65	-0.57	0.1
	CO739	Main member	-52.41	-0.04	-6.68	-4.86	0.13
57	CO739	Connected member	14.44	-0.02	-0.59	-0.32	0.18
	CO739	Connected member	2.5	0.02	0.14	-0.38	0.08
	CO739	Connected member	-29.2	0.06	4.23	-3.61	0.2
57	CO739	Connected member	-18.4	0.01	0.79	-1.19	0.09
	CO740	Main member	-52.63	-0.04	-5.65	-4.55	0.14
	CO740	Connected member	6.42	-0.02	-0.7	-0.77	0.18
57	CO740	Connected member	2.5	0.02	0.01	-0.02	0.08
	CO740	Connected member	-39.12	0.07	5.94	-4.57	0.21
	CO740	Connected member	-12.33	0.01	0.69	-0.73	0.09
57	CO741	Main member	-35.37	-0.03	-3.9	-2.72	0.11
	CO741	Connected member	9.99	-0.02	-0.66	-0.66	0.17
	CO741	Connected member	2.5	0.02	0.05	-0.12	0.07
57	CO741	Connected member	-20.03	0.06	3.54	-2.4	0.2
	CO741	Connected member	-11.43	0.01	0.71	-0.87	0.09
	CO742	Main member	-34.95	-0.33	-5.45	-4.19	1.3
57	CO742	Connected member	-3.57	-0.05	-0.69	-0.73	0.43
	CO742	Connected member	2.47	0.01	0	0	0.04
	CO742	Connected member	-34.95	0.33	5.45	-4.19	1.3
57	CO742	Connected member	-3.57	0.05	0.69	-0.73	0.43
	CO743	Main member	-11.86	-0.32	-3.52	-2.27	1.25
	CO743	Connected member	-2.42	-0.04	-0.68	-0.73	0.41
57	CO743	Connected member	2.44	0.01	0	0	0.02
	CO743	Connected member	-11.86	0.32	3.52	-2.27	1.25
	CO743	Connected member	-2.42	0.04	0.68	-0.73	0.41
57	CO744	Main member	-11.68	-0.33	-3.42	-2.57	1.27
	CO744	Connected member	-2.42	-0.04	-0.68	-0.73	0.41
	CO744	Connected member	2.44	0.01	0	0	0.02
57	CO744	Connected member	-11.68	0.33	3.42	-2.57	1.27
	CO744	Connected member	-2.42	0.04	0.68	-0.73	0.41
	CO745	Main member	7.63	-0.33	-1.54	-1.1	1.24
57	CO745	Connected member	-0.79	-0.04	-0.67	-0.73	0.39
	CO745	Connected member	2.42	0	0	0	0
	CO745	Connected member	7.63	0.33	1.54	-1.1	1.24
57	CO745	Connected member	-0.79	0.04	0.67	-0.73	0.39
	CO746	Main member	11.56	-0.29	-1.52	-1.04	1.1
	CO746	Connected member	-1.92	-0.04	-0.67	-0.72	0.4
57	CO746	Connected member	2.4	0.02	0	0	0.06
	CO746	Connected member	11.56	0.29	1.52	-1.04	1.1
	CO746	Connected member	-1.92	0.04	0.67	-0.72	0.4
57	CO747	Main member	-41.29	-0.03	-4.05	-3.53	0.12
	CO747	Connected member	2.51	-0.02	-0.75	-1.03	0.17
	CO747	Connected member	2.5	0.02	-0.05	0.18	0.08
57	CO747	Connected member	-34.28	0.07	5.94	-4.26	0.21
	CO747	Connected member	-6.79	0.01	0.63	-0.48	0.1
	CO748	Main member	-47.32	-0.04	-5.51	-4.04	0.13
57	CO748	Connected member	13.79	-0.02	-0.61	-0.41	0.18
	CO748	Connected member	2.5	0.02	0.11	-0.32	0.08
	CO748	Connected member	-25.54	0.06	3.6	-3.02	0.2
57	CO748	Connected member	-17	0.01	0.77	-1.11	0.09
	CO749	Main member	-27.7	-0.01	-3.08	-2.36	0.02
57	CO749	Connected member	-1.97	0	-0.69	-0.75	0.01
	CO749	Connected member	2.48	0	0	0	0.01
	CO749	Connected member	-27.7	0.01	3.08	-2.36	0.02
57	CO749	Connected member	-1.97	0	0.69	-0.75	0.01
	CO750	Main member	-26.21	-0.01	-3.02	-2.12	0.02
	CO750	Connected member	0.32	0	-0.65	-0.58	0.01
57	CO750	Connected member	2.48	0	0.04	-0.13	0.01
	CO750	Connected member	-23.35	0	1.96	-1.66	0.01
	CO750	Connected member	-3.76	0	0.72	-0.92	0.01
57	CO751	Main member	-38.71	-0.01	-5.7	-4.39	0.02
	CO751	Connected member	-3.42	0	-0.69	-0.74	0.01
	CO751	Connected member	2.48	0	0	0	0.01
57	CO751	Connected member	-38.71	0.01	5.7	-4.39	0.02
	CO751	Connected member	-3.42	0	0.69	-0.74	0.01
	CO752	Main member	-37.22	-0.01	-5.63	-4.16	0.02
57	CO752	Connected member	-1.13	0	-0.65	-0.57	0.01
	CO752	Connected member	2.48	0	0.04	-0.13	0.01
	CO752	Connected member	-34.36	0.01	4.57	-3.69	0.02
57	CO752	Connected member	-5.21	0	0.73	-0.9	0.01
	CO753	Main member	-42.21	-0.01	-6.41	-4.96	0.02
	CO753	Connected member	-3.72	0	-0.69	-0.73	0.01
57	CO753	Connected member	2.48	0	0	0	0.01
	CO753	Connected member	-42.21	0.01	6.41	-4.96	0.02
	CO753	Connected member	-3.72	0	0.69	-0.73	0.01
57	CO754	Main member	-40.72	-0.01	-6.35	-4.72	0.02
	CO754	Connected member	-1.43	0	-0.65	-0.57	0.01
	CO754	Connected member	2.48	0	0.04	-0.13	0.01
57	CO754	Connected member	-37.86	0.01	5.28	-4.26	0.02
	CO754	Connected member	-5.51	0	0.73	-0.9	0.01
	CO755	Main member	-31.2	-0.01	-3.8	-2.92	0.02
57	CO755	Connected member	-2.27	0	-0.69	-0.75	0.01
	CO755	Connected member	2.48	0	0	0	0.01
	CO755	Connected member	-31.2	0.01	3.8	-2.92	0.02
57	CO755	Connected member	-2.27	0	0.69	-0.75	0.01
	CO756	Main member	-29.71	-0.01	-3.73	-2.68	0.02
	CO756	Connected member	0.02	0	-0.65	-0.58	0.01
57	CO756	Connected member	2.48	0	0.04	-0.13	0.01
	CO756	Connected member	-26.85	0	2.67	-2.22	0.02



::LAVteam::

Page: 148/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO756	Connected member	-4.06	0	0.73	-0.91	0.01
	CO757	Main member	-51.97	-0.04	-5.87	-4.71	0.14
	CO757	Connected member	5.98	-0.02	-0.7	-0.77	0.18
	CO757	Connected member	2.5	0.02	0.01	-0.02	0.08
	CO757	Connected member	-38.45	0.07	6.16	-4.73	0.21
57	CO757	Connected member	-12.77	0.01	0.69	-0.72	0.09
	CO758	Main member	-34.71	-0.03	-4.12	-2.89	0.11
	CO758	Connected member	9.55	-0.02	-0.66	-0.65	0.17
	CO758	Connected member	2.49	0.02	0.05	-0.12	0.07
	CO758	Connected member	-19.36	0.06	3.76	-2.56	0.2
57	CO758	Connected member	-11.87	0.01	0.71	-0.86	0.09
	CO759	Main member	-34.28	-0.33	-5.68	-4.35	1.3
	CO759	Connected member	-4.01	-0.05	-0.69	-0.73	0.44
	CO759	Connected member	2.46	0.01	0	0	0.04
	CO759	Connected member	-34.28	0.33	5.68	-4.35	1.3
57	CO759	Connected member	-4.01	0.05	0.69	-0.73	0.44
	CO760	Main member	-11.2	-0.32	-3.74	-2.44	1.25
	CO760	Connected member	-2.86	-0.04	-0.68	-0.72	0.41
	CO760	Connected member	2.43	0.01	0	0	0.02
	CO760	Connected member	-11.2	0.32	3.74	-2.44	1.25
57	CO760	Connected member	-2.86	0.04	0.68	-0.72	0.41
	CO761	Main member	-11.02	-0.33	-3.64	-2.73	1.27
	CO761	Connected member	-2.86	-0.04	-0.68	-0.72	0.41
	CO761	Connected member	2.43	0.01	0	0	0.02
	CO761	Connected member	-11.02	0.33	3.64	-2.73	1.27
57	CO761	Connected member	-2.86	0.04	0.68	-0.72	0.41
	CO762	Main member	8.3	-0.33	-1.76	-1.26	1.24
	CO762	Connected member	-1.22	-0.04	-0.67	-0.73	0.39
	CO762	Connected member	2.41	0	0	0	0
	CO762	Connected member	8.3	0.33	1.76	-1.26	1.24
57	CO762	Connected member	-1.22	0.04	0.67	-0.73	0.39
	CO763	Main member	12.22	-0.29	-1.74	-1.2	1.09
	CO763	Connected member	-2.36	-0.04	-0.67	-0.71	0.4
	CO763	Connected member	2.39	0.02	0	0	0.06
	CO763	Connected member	12.22	0.29	1.74	-1.2	1.09
57	CO763	Connected member	-2.36	0.04	0.67	-0.71	0.4
	CO764	Main member	-40.63	-0.03	-4.27	-3.69	0.12
	CO764	Connected member	2.07	-0.02	-0.75	-1.02	0.17
	CO764	Connected member	2.49	0.02	-0.05	0.18	0.08
	CO764	Connected member	-33.61	0.07	6.16	-4.42	0.21
57	CO764	Connected member	-7.23	0.01	0.63	-0.48	0.1
	CO765	Main member	-46.65	-0.04	-5.73	-4.2	0.13
	CO765	Connected member	13.35	-0.02	-0.61	-0.4	0.18
	CO765	Connected member	2.49	0.02	0.11	-0.32	0.08
	CO765	Connected member	-24.87	0.06	3.82	-3.19	0.2
57	CO765	Connected member	-17.44	0.01	0.77	-1.1	0.09
	CO766	Main member	-50.47	-0.04	-5.81	-4.47	0.14
	CO766	Connected member	8.27	-0.02	-0.66	-0.6	0.18
	CO766	Connected member	2.49	0.02	0.06	-0.15	0.08
	CO766	Connected member	-34.11	0.07	5.03	-4.03	0.21
57	CO766	Connected member	-14.56	0.01	0.73	-0.89	0.09
	CO767	Main member	-33.22	-0.03	-4.06	-2.65	0.11
	CO767	Connected member	11.84	-0.02	-0.62	-0.49	0.17
	CO767	Connected member	2.49	0.02	0.09	-0.25	0.07
	CO767	Connected member	-15.02	0.06	2.64	-1.86	0.2
57	CO767	Connected member	-13.65	0.01	0.75	-1.03	0.09
	CO768	Main member	-32.79	-0.33	-5.61	-4.11	1.3
	CO768	Connected member	-1.72	-0.05	-0.65	-0.56	0.43
	CO768	Connected member	2.46	0.01	0.04	-0.13	0.04
	CO768	Connected member	-29.94	0.33	4.55	-3.65	1.3
57	CO768	Connected member	-5.8	0.05	0.72	-0.89	0.43
	CO769	Main member	-9.71	-0.32	-3.67	-2.2	1.25
	CO769	Connected member	-0.57	-0.04	-0.64	-0.56	0.41
	CO769	Connected member	2.43	0.01	0.04	-0.13	0.02
	CO769	Connected member	-6.85	0.32	2.61	-1.74	1.25
57	CO769	Connected member	-4.64	0.04	0.72	-0.89	0.4
	CO770	Main member	-9.52	-0.33	-3.58	-2.49	1.27
	CO770	Connected member	-0.57	-0.04	-0.64	-0.56	0.41
	CO770	Connected member	2.43	0.01	0.04	-0.13	0.02
	CO770	Connected member	-6.67	0.33	2.52	-2.03	1.27
57	CO770	Connected member	-4.64	0.04	0.71	-0.89	0.41
	CO771	Main member	9.79	-0.33	-1.69	-1.02	1.24
	CO771	Connected member	1.06	-0.04	-0.63	-0.56	0.39
	CO771	Connected member	2.41	0	0.04	-0.13	0
	CO771	Connected member	12.64	0.33	0.64	-0.56	1.24
57	CO771	Connected member	-3.01	0.04	0.71	-0.89	0.39
	CO772	Main member	13.71	-0.29	-1.67	-0.96	1.09
	CO772	Connected member	-0.07	-0.04	-0.63	-0.55	0.4
	CO772	Connected member	2.39	0.02	0.04	-0.13	0.06
	CO772	Connected member	16.57	0.29	0.62	-0.51	1.09
57	CO772	Connected member	-4.14	0.04	0.7	-0.88	0.4
	CO773	Main member	-39.14	-0.03	-4.21	-3.46	0.12
	CO773	Connected member	4.36	-0.02	-0.71	-0.86	0.17
	CO773	Connected member	2.49	0.02	-0.01	0.05	0.08
	CO773	Connected member	-29.27	0.07	5.03	-3.72	0.21
57	CO773	Connected member	-9.01	0.01	0.67	-0.65	0.1
	CO774	Main member	-45.16	-0.04	-5.67	-3.97	0.13
	CO774	Connected member	15.64	-0.02	-0.57	-0.23	0.18
	CO774	Connected member	2.49	0.02	0.16	-0.45	0.08
	CO774	Connected member	-20.53	0.06	2.69	-2.49	0.2
57	CO774	Connected member	-19.22	0	0.8	-1.27	0.09
	CO775	Main member	-55.47	-0.04	-6.59	-5.27	0.14
	CO775	Connected member	5.68	-0.02	-0.7	-0.77	0.18
	CO775	Connected member	2.5	0.02	0.01	-0.02	0.08



::LAV/team::

Page: 149/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO775	Connected member	-41.96	0.07	6.88	-5.29	0.21
	CO775	Connected member	-13.08	0.01	0.69	-0.72	0.1
	CO776	Main member	-38.21	-0.03	-4.84	-3.45	0.11
57	CO776	Connected member	9.25	-0.02	-0.66	-0.65	0.17
	CO776	Connected member	2.49	0.02	0.05	-0.12	0.07
	CO776	Connected member	-22.87	0.07	4.48	-3.12	0.2
57	CO776	Connected member	-12.17	0.01	0.71	-0.86	0.09
	CO777	Main member	-37.79	-0.33	-6.39	-4.91	1.31
	CO777	Connected member	-4.31	-0.05	-0.69	-0.72	0.44
57	CO777	Connected member	2.46	0.01	0	0	0.04
	CO777	Connected member	-37.79	0.33	6.39	-4.91	1.31
	CO777	Connected member	-4.31	0.05	0.69	-0.72	0.44
57	CO778	Main member	-14.7	-0.32	-4.45	-3	1.25
	CO778	Connected member	-3.16	-0.04	-0.68	-0.72	0.41
	CO778	Connected member	2.43	0.01	0	0	0.02
57	CO778	Connected member	-14.7	0.32	4.45	-3	1.25
	CO778	Connected member	-3.16	0.04	0.68	-0.72	0.41
	CO779	Main member	-14.52	-0.33	-4.36	-3.29	1.28
57	CO779	Connected member	-3.16	-0.04	-0.68	-0.72	0.42
	CO779	Connected member	2.43	0.01	0	0	0.02
	CO779	Connected member	-14.52	0.33	4.36	-3.29	1.28
57	CO779	Connected member	-3.16	0.04	0.68	-0.72	0.42
	CO780	Main member	4.8	-0.32	-2.48	-1.82	1.24
	CO780	Connected member	-1.53	-0.04	-0.67	-0.73	0.39
57	CO780	Connected member	2.41	0	0	0	0
	CO780	Connected member	4.8	0.32	2.48	-1.82	1.24
	CO780	Connected member	-1.53	0.04	0.67	-0.73	0.39
57	CO781	Main member	8.72	-0.29	-2.46	-1.76	1.1
	CO781	Connected member	-2.66	-0.04	-0.67	-0.71	0.41
	CO781	Connected member	2.39	0.02	0	0	0.06
57	CO781	Connected member	8.72	0.29	2.46	-1.76	1.1
	CO781	Connected member	-2.66	0.04	0.67	-0.71	0.41
	CO782	Main member	-44.13	-0.03	-4.99	-4.26	0.12
57	CO782	Connected member	1.77	-0.02	-0.75	-1.02	0.17
	CO782	Connected member	2.49	0.02	-0.05	0.18	0.08
	CO782	Connected member	-37.12	0.07	6.88	-4.98	0.22
57	CO782	Connected member	-7.53	0.01	0.63	-0.48	0.1
	CO783	Main member	-50.16	-0.04	-6.45	-4.77	0.13
	CO783	Connected member	13.05	-0.02	-0.61	-0.4	0.18
57	CO783	Connected member	2.5	0.02	0.11	-0.32	0.08
	CO783	Connected member	-28.37	0.06	4.53	-3.75	0.2
	CO783	Connected member	-17.75	0.01	0.77	-1.1	0.09
57	CO784	Main member	-53.98	-0.04	-6.52	-5.04	0.14
	CO784	Connected member	7.97	-0.02	-0.66	-0.6	0.18
	CO784	Connected member	2.5	0.02	0.06	-0.15	0.08
57	CO784	Connected member	-37.61	0.07	5.75	-4.59	0.21
	CO784	Connected member	-14.86	0.01	0.73	-0.89	0.09
	CO785	Main member	-36.72	-0.03	-4.77	-3.21	0.11
57	CO785	Connected member	11.54	-0.02	-0.62	-0.49	0.17
	CO785	Connected member	2.49	0.02	0.09	-0.25	0.07
	CO785	Connected member	-18.52	0.06	3.35	-2.42	0.2
57	CO785	Connected member	-13.95	0.01	0.75	-1.03	0.09
	CO786	Main member	-36.3	-0.33	-6.33	-4.68	1.3
	CO786	Connected member	-2.02	-0.05	-0.65	-0.56	0.44
57	CO786	Connected member	2.46	0.01	0.04	-0.13	0.04
	CO786	Connected member	-33.44	0.33	5.27	-4.21	1.3
	CO786	Connected member	-6.1	0.05	0.73	-0.89	0.43
57	CO787	Main member	-13.21	-0.32	-4.38	-2.76	1.25
	CO787	Connected member	-0.87	-0.04	-0.64	-0.56	0.41
	CO787	Connected member	2.43	0.01	0.04	-0.13	0.02
57	CO787	Connected member	-10.35	0.32	3.33	-2.3	1.25
	CO787	Connected member	-4.94	0.04	0.72	-0.89	0.41
	CO788	Main member	-13.03	-0.33	-4.29	-3.05	1.27
57	CO788	Connected member	-0.87	-0.04	-0.64	-0.56	0.42
	CO788	Connected member	2.43	0.01	0.04	-0.13	0.02
	CO788	Connected member	-10.17	0.33	3.24	-2.59	1.27
57	CO788	Connected member	-4.94	0.04	0.72	-0.89	0.41
	CO789	Main member	6.29	-0.33	-2.41	-1.58	1.24
	CO789	Connected member	0.76	-0.04	-0.63	-0.56	0.39
57	CO789	Connected member	2.41	0	0.04	-0.13	0
	CO789	Connected member	9.14	0.33	1.35	-1.12	1.24
	CO789	Connected member	-3.31	0.04	0.71	-0.89	0.39
57	CO790	Main member	10.21	-0.29	-2.39	-1.52	1.1
	CO790	Connected member	-0.37	-0.04	-0.63	-0.54	0.41
	CO790	Connected member	2.39	0.02	0.04	-0.13	0.06
57	CO790	Connected member	13.07	0.29	1.33	-1.06	1.09
	CO790	Connected member	-4.44	0.04	0.71	-0.87	0.4
	CO791	Main member	-42.64	-0.03	-4.92	-4.02	0.12
57	CO791	Connected member	4.06	-0.02	-0.71	-0.86	0.17
	CO791	Connected member	2.49	0.02	-0.01	0.05	0.08
	CO791	Connected member	-32.77	0.07	5.75	-4.28	0.21
57	CO791	Connected member	-9.32	0.01	0.67	-0.65	0.1
	CO792	Main member	-48.67	-0.04	-6.39	-4.53	0.13
	CO792	Connected member	15.34	-0.02	-0.57	-0.23	0.18
57	CO792	Connected member	2.49	0.02	0.16	-0.45	0.08
	CO792	Connected member	-24.03	0.06	3.41	-3.05	0.2
	CO792	Connected member	-19.53	0	0.8	-1.27	0.09
57	CO793	Main member	-44.45	-0.04	-3.98	-3.23	0.13
	CO793	Connected member	7.12	-0.02	-0.7	-0.78	0.18
	CO793	Connected member	2.5	0.02	0.01	-0.02	0.08
57	CO793	Connected member	-30.95	0.07	4.27	-3.26	0.21
	CO793	Connected member	-11.62	0.01	0.69	-0.73	0.09
	CO794	Main member	-27.2	-0.03	-2.23	-1.42	0.11
57	CO794	Connected member	10.69	-0.02	-0.66	-0.66	0.17



::LAV/team::

Page: 150/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO794	Connected member	2.49	0.02	0.05	-0.12	0.07
	CO794	Connected member	-11.86	0.06	1.87	-1.09	0.2
	CO794	Connected member	-10.72	0.01	0.71	-0.87	0.09
57	CO795	Main member	-26.77	-0.33	-3.78	-2.88	1.3
	CO795	Connected member	-2.86	-0.04	-0.69	-0.73	0.43
	CO795	Connected member	2.47	0.01	0	0	0.03
57	CO795	Connected member	-26.77	0.33	3.78	-2.88	1.3
	CO795	Connected member	-2.86	0.04	0.69	-0.73	0.43
	CO796	Main member	-3.69	-0.32	-1.85	-0.97	1.25
57	CO796	Connected member	-1.71	-0.04	-0.68	-0.73	0.4
	CO796	Connected member	2.44	0.01	0	0	0.01
	CO796	Connected member	-3.69	0.32	1.85	-0.97	1.25
57	CO796	Connected member	-1.71	0.04	0.68	-0.73	0.4
	CO797	Main member	-3.51	-0.33	-1.75	-1.26	1.27
	CO797	Connected member	-1.71	-0.04	-0.68	-0.73	0.4
57	CO797	Connected member	2.43	0.01	0	0	0.01
	CO797	Connected member	-3.51	0.33	1.75	-1.26	1.27
	CO797	Connected member	-1.71	0.04	0.68	-0.73	0.4
57	CO798	Main member	15.8	-0.33	0.13	0.2	1.24
	CO798	Connected member	-0.08	-0.04	-0.67	-0.74	0.38
	CO798	Connected member	2.41	0	0	0	-0.01
57	CO798	Connected member	15.8	0.33	-0.13	0.2	1.24
	CO798	Connected member	-0.08	0.04	0.67	-0.74	0.38
	CO799	Main member	19.73	-0.29	0.15	0.26	1.09
57	CO799	Connected member	-1.21	-0.04	-0.67	-0.72	0.4
	CO799	Connected member	2.39	0.01	0	0	0.05
	CO799	Connected member	19.73	0.29	-0.15	0.26	1.09
57	CO799	Connected member	-1.21	0.04	0.67	-0.72	0.4
	CO800	Main member	-33.11	-0.03	-2.38	-2.22	0.12
	CO800	Connected member	3.21	-0.02	-0.75	-1.03	0.17
57	CO800	Connected member	2.49	0.02	-0.05	0.18	0.08
	CO800	Connected member	-26.11	0.07	4.27	-2.94	0.21
	CO800	Connected member	-6.08	0.01	0.63	-0.49	0.09
57	CO801	Main member	-39.14	-0.04	-3.84	-2.73	0.13
	CO801	Connected member	14.49	-0.02	-0.61	-0.41	0.18
	CO801	Connected member	2.5	0.02	0.11	-0.32	0.08
57	CO801	Connected member	-17.37	0.06	1.92	-1.71	0.2
	CO801	Connected member	-16.29	0	0.77	-1.11	0.09
	CO802	Main member	-42.96	-0.04	-3.91	-3	0.13
57	CO802	Connected member	9.41	-0.02	-0.66	-0.61	0.18
	CO802	Connected member	2.5	0.02	0.06	-0.15	0.08
	CO802	Connected member	-26.6	0.07	3.14	-2.56	0.21
57	CO802	Connected member	-13.41	0.01	0.72	-0.9	0.09
	CO803	Main member	-25.7	-0.03	-2.16	-1.18	0.11
	CO803	Connected member	12.98	-0.02	-0.62	-0.5	0.17
57	CO803	Connected member	2.49	0.02	0.09	-0.25	0.07
	CO803	Connected member	-7.52	0.06	0.74	-0.4	0.2
	CO803	Connected member	-12.5	0.01	0.75	-1.04	0.09
57	CO804	Main member	-25.28	-0.33	-3.72	-2.64	1.3
	CO804	Connected member	-0.58	-0.05	-0.65	-0.57	0.43
	CO804	Connected member	2.47	0.01	0.04	-0.13	0.03
57	CO804	Connected member	-22.43	0.33	2.66	-2.18	1.3
	CO804	Connected member	-4.65	0.04	0.72	-0.9	0.42
	CO805	Main member	-2.2	-0.32	-1.78	-0.73	1.25
57	CO805	Connected member	0.58	-0.04	-0.64	-0.57	0.4
	CO805	Connected member	2.43	0.01	0.04	-0.13	0.01
	CO805	Connected member	0.65	0.33	0.72	-0.27	1.24
57	CO805	Connected member	-3.49	0.04	0.71	-0.9	0.39
	CO806	Main member	-2.02	-0.33	-1.68	-1.03	1.27
	CO806	Connected member	0.58	-0.04	-0.64	-0.57	0.4
57	CO806	Connected member	2.43	0.01	0.04	-0.13	0.01
	CO806	Connected member	0.83	0.33	0.63	-0.57	1.27
	CO806	Connected member	-3.49	0.04	0.71	-0.9	0.4
57	CO807	Main member	17.29	-0.33	0.2	0.44	1.24
	CO807	Connected member	2.21	-0.04	-0.63	-0.57	0.38
	CO807	Connected member	2.41	0	0.04	-0.13	-0.01
57	CO807	Connected member	20.15	0.33	-1.25	0.9	1.24
	CO807	Connected member	-1.86	0.04	0.71	-0.9	0.38
	CO808	Main member	21.22	-0.29	0.22	0.5	1.09
57	CO808	Connected member	1.08	-0.04	-0.63	-0.56	0.4
	CO808	Connected member	2.39	0.01	0.04	-0.13	0.05
	CO808	Connected member	24.07	0.29	-1.27	0.95	1.09
57	CO808	Connected member	-2.99	0.04	0.7	-0.89	0.39
	CO809	Main member	-31.62	-0.03	-2.31	-1.98	0.12
	CO809	Connected member	5.5	-0.02	-0.71	-0.87	0.17
57	CO809	Connected member	2.49	0.02	-0.01	0.05	0.08
	CO809	Connected member	-21.76	0.07	3.14	-2.25	0.21
	CO809	Connected member	-7.86	0.01	0.67	-0.66	0.09
57	CO810	Main member	-37.65	-0.04	-3.77	-2.49	0.13
	CO810	Connected member	16.78	-0.02	-0.57	-0.25	0.18
	CO810	Connected member	2.5	0.02	0.16	-0.45	0.08
57	CO810	Connected member	-13.02	0.06	0.8	-1.02	0.2
	CO810	Connected member	-18.07	0	0.8	-1.27	0.09
	CO811	Main member	-40.95	-0.04	-3.26	-2.67	0.13
57	CO811	Connected member	7.42	-0.02	-0.69	-0.78	0.18
	CO811	Connected member	2.5	0.02	0.01	-0.02	0.08
	CO811	Connected member	-27.44	0.07	3.55	-2.69	0.21
57	CO811	Connected member	-11.32	0.01	0.69	-0.74	0.09
	CO812	Main member	-23.69	-0.03	-1.51	-0.86	0.11
	CO812	Connected member	10.99	-0.02	-0.66	-0.67	0.17
57	CO812	Connected member	2.49	0.02	0.05	-0.12	0.07
	CO812	Connected member	-8.36	0.06	1.15	-0.53	0.2
	CO812	Connected member	-10.41	0.01	0.71	-0.87	0.09
57	CO813	Main member	-23.27	-0.33	-3.07	-2.31	1.3



::LAV/team::

Page: 151/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO813	Connected member	-2.56	-0.04	-0.69	-0.74	0.42
	CO813	Connected member	2.47	0.01	0	0	0.02
57	CO813	Connected member	-23.27	0.33	3.07	-2.31	1.3
	CO813	Connected member	-2.56	0.04	0.69	-0.74	0.42
57	CO814	Main member	-0.19	-0.32	-1.13	-0.41	1.24
	CO814	Connected member	-1.41	-0.04	-0.68	-0.73	0.39
57	CO814	Connected member	2.43	0.01	0	0	0.01
	CO814	Connected member	-0.19	0.32	1.13	-0.41	1.24
57	CO814	Connected member	-1.41	0.04	0.68	-0.73	0.39
	CO815	Main member	-0.01	-0.33	-1.04	-0.7	1.27
57	CO815	Connected member	-1.41	-0.04	-0.68	-0.73	0.4
	CO815	Connected member	2.43	0.01	0	0	0.01
57	CO815	Connected member	-0.01	0.33	1.04	-0.7	1.27
	CO815	Connected member	-1.41	0.04	0.68	-0.73	0.4
57	CO816	Main member	19.3	-0.33	0.84	0.76	1.24
	CO816	Connected member	0.22	-0.04	-0.67	-0.74	0.38
57	CO816	Connected member	2.41	0	0	0	-0.01
	CO816	Connected member	19.3	0.33	-0.84	0.76	1.24
57	CO816	Connected member	0.22	0.04	0.67	-0.74	0.38
	CO817	Main member	23.23	-0.29	0.86	0.82	1.09
57	CO817	Connected member	-0.91	-0.04	-0.67	-0.72	0.39
	CO817	Connected member	2.39	0.01	0	0	0.05
57	CO817	Connected member	23.23	0.29	-0.86	0.82	1.09
	CO817	Connected member	-0.91	0.04	0.67	-0.72	0.39
57	CO818	Main member	-29.61	-0.03	-1.66	-1.66	0.11
	CO818	Connected member	3.51	-0.02	-0.75	-1.04	0.17
57	CO818	Connected member	2.49	0.02	-0.05	0.18	0.08
	CO818	Connected member	-22.6	0.07	3.55	-2.38	0.21
57	CO818	Connected member	-5.78	0.01	0.63	-0.49	0.09
	CO819	Main member	-35.63	-0.04	-3.12	-2.17	0.13
57	CO819	Connected member	14.79	-0.02	-0.61	-0.41	0.18
	CO819	Connected member	2.5	0.02	0.11	-0.32	0.08
57	CO819	Connected member	-13.87	0.06	1.21	-1.16	0.2
	CO819	Connected member	-15.98	0	0.77	-1.11	0.09
57	CO820	Main member	-39.46	-0.04	-3.19	-2.43	0.13
	CO820	Connected member	9.71	-0.02	-0.66	-0.61	0.18
57	CO820	Connected member	2.5	0.02	0.06	-0.15	0.08
	CO820	Connected member	-23.1	0.07	2.42	-2	0.21
57	CO820	Connected member	-13.1	0.01	0.72	-0.9	0.09
	CO821	Main member	-22.2	-0.03	-1.45	-0.62	0.11
57	CO821	Connected member	13.28	-0.02	-0.62	-0.5	0.17
	CO821	Connected member	2.49	0.02	0.09	-0.25	0.07
57	CO821	Connected member	-4.01	0.06	0.03	0.16	0.2
	CO821	Connected member	-12.19	0	0.75	-1.04	0.09
57	CO822	Main member	-21.78	-0.33	-3	-2.08	1.3
	CO822	Connected member	-0.27	-0.04	-0.65	-0.57	0.42
57	CO822	Connected member	2.46	0.01	0.04	-0.13	0.02
	CO822	Connected member	-18.93	0.34	1.94	-1.62	1.29
57	CO822	Connected member	-4.35	0.04	0.72	-0.9	0.42
	CO823	Main member	1.3	-0.33	-1.06	-0.18	1.24
57	CO823	Connected member	0.88	-0.04	-0.64	-0.57	0.39
	CO823	Connected member	2.43	0	0.04	-0.13	0
57	CO823	Connected member	4.15	0.33	0.01	0.28	1.24
	CO823	Connected member	-3.19	0.04	0.71	-0.9	0.39
57	CO824	Main member	1.48	-0.33	-0.97	-0.47	1.27
	CO824	Connected member	0.88	-0.04	-0.64	-0.57	0.4
57	CO824	Connected member	2.43	0.01	0.04	-0.13	0.01
	CO824	Connected member	4.34	0.34	-0.09	-0.01	1.26
57	CO824	Connected member	-3.19	0.04	0.71	-0.9	0.4
	CO825	Main member	20.79	-0.33	0.91	0.99	1.23
57	CO825	Connected member	2.51	-0.04	-0.63	-0.58	0.38
	CO825	Connected member	2.41	0	0.04	-0.13	-0.01
57	CO825	Connected member	23.65	0.33	-1.96	1.45	1.23
	CO825	Connected member	-1.56	0.04	0.71	-0.91	0.37
57	CO826	Main member	24.72	-0.29	0.93	1.05	1.09
	CO826	Connected member	1.38	-0.04	-0.63	-0.56	0.39
57	CO826	Connected member	2.39	0.01	0.04	-0.13	0.04
	CO826	Connected member	27.57	0.29	-1.98	1.51	1.09
57	CO826	Connected member	-2.69	0.04	0.7	-0.89	0.39
	CO827	Main member	-28.12	-0.03	-1.6	-1.42	0.12
57	CO827	Connected member	5.8	-0.02	-0.71	-0.87	0.17
	CO827	Connected member	2.49	0.02	-0.01	0.05	0.08
57	CO827	Connected member	-18.26	0.07	2.42	-1.69	0.21
	CO827	Connected member	-7.56	0.01	0.67	-0.66	0.09
57	CO828	Main member	-34.14	-0.04	-3.06	-1.93	0.13
	CO828	Connected member	17.08	-0.02	-0.57	-0.25	0.18
57	CO828	Connected member	2.49	0.02	0.16	-0.44	0.08
	CO828	Connected member	-9.52	0.06	0.09	-0.46	0.19
57	CO828	Connected member	-17.77	0	0.8	-1.28	0.09
	CO829	Main member	-38.1	-0.06	-0.99	-1.01	0.2
57	CO829	Connected member	14.67	-0.04	-0.7	-0.81	0.29
	CO829	Connected member	2.5	0.03	0.02	-0.03	0.12
57	CO829	Connected member	-15.62	0.11	1.47	-1.05	0.33
	CO829	Connected member	-16.52	0.01	0.68	-0.73	0.14
57	CO830	Main member	-9.34	-0.04	1.92	2	0.16
	CO830	Connected member	20.61	-0.03	-0.64	-0.62	0.27
57	CO830	Connected member	2.49	0.03	0.08	-0.19	0.11
	CO830	Connected member	16.17	0.1	-2.51	2.54	0.32
57	CO830	Connected member	-15	0.01	0.72	-0.96	0.13
	CO831	Main member	-8.65	-0.56	-0.67	-0.42	2.13
57	CO831	Connected member	-1.95	-0.07	-0.68	-0.74	0.68
	CO831	Connected member	2.45	0.01	0	0	0.02
57	CO831	Connected member	-8.65	0.56	0.67	-0.42	2.13
	CO831	Connected member	-1.95	0.07	0.68	-0.74	0.68



::LAV/team::

Page: 152/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO832	Main member	29.8	-0.55	2.55	2.73	2.03
	CO832	Connected member	-0.02	-0.06	-0.67	-0.73	0.62
57	CO832	Connected member	2.4	0	0	0	-0.02
	CO832	Connected member	29.8	0.55	-2.55	2.73	2.03
57	CO832	Connected member	-0.02	0.06	0.67	-0.73	0.62
	CO833	Main member	30.11	-0.57	2.71	2.24	2.07
57	CO833	Connected member	-0.02	-0.06	-0.67	-0.73	0.63
	CO833	Connected member	2.39	0	0	0	-0.02
57	CO833	Connected member	30.11	0.57	-2.71	2.24	2.07
	CO833	Connected member	-0.02	0.06	0.67	-0.73	0.63
57	CO834	Main member	62.28	-0.56	5.83	4.65	2.01
	CO834	Connected member	2.7	-0.05	-0.65	-0.74	0.58
57	CO834	Connected member	2.36	-0.01	0	0	-0.07
	CO834	Connected member	62.28	0.56	-5.83	4.65	2.01
57	CO834	Connected member	2.7	0.05	0.65	-0.74	0.58
	CO835	Main member	68.81	-0.5	5.86	4.75	1.76
57	CO835	Connected member	0.81	-0.06	-0.65	-0.71	0.61
	CO835	Connected member	2.32	0.01	0	0	0.04
57	CO835	Connected member	68.81	0.5	-5.86	4.75	1.76
	CO835	Connected member	0.81	0.06	0.65	-0.71	0.61
57	CO836	Main member	-19.2	-0.05	1.66	0.67	0.17
	CO836	Connected member	8.15	-0.03	-0.79	-1.23	0.28
57	CO836	Connected member	2.49	0.03	-0.09	0.3	0.12
	CO836	Connected member	-7.56	0.11	1.47	-0.53	0.34
57	CO836	Connected member	-7.28	0.01	0.59	-0.33	0.14
	CO837	Main member	-29.24	-0.06	-0.76	-0.18	0.2
57	CO837	Connected member	26.95	-0.04	-0.55	-0.2	0.29
	CO837	Connected member	2.5	0.03	0.19	-0.52	0.12
57	CO837	Connected member	7	0.1	-2.42	1.5	0.31
	CO837	Connected member	-24.29	0.01	0.81	-1.35	0.13
57	CO838	Main member	-49.12	-0.06	-3.6	-3.04	0.21
	CO838	Connected member	13.23	-0.04	-0.7	-0.8	0.29
57	CO838	Connected member	2.5	0.03	0.02	-0.03	0.13
	CO838	Connected member	-26.62	0.11	4.08	-3.08	0.34
57	CO838	Connected member	-17.98	0.01	0.69	-0.72	0.14
	CO839	Main member	-20.35	-0.04	-0.69	-0.02	0.16
57	CO839	Connected member	19.18	-0.03	-0.64	-0.61	0.27
	CO839	Connected member	2.49	0.03	0.08	-0.19	0.12
57	CO839	Connected member	5.17	0.1	0.09	0.52	0.32
	CO839	Connected member	-16.46	0.01	0.72	-0.95	0.14
57	CO840	Main member	-19.66	-0.55	-3.28	-2.45	2.14
	CO840	Connected member	-3.39	-0.07	-0.68	-0.72	0.7
57	CO840	Connected member	2.45	0.02	0	0	0.05
	CO840	Connected member	-19.66	0.55	3.28	-2.45	2.14
57	CO840	Connected member	-3.39	0.07	0.68	-0.72	0.7
	CO841	Main member	18.8	-0.54	-0.05	0.72	2.04
57	CO841	Connected member	-1.47	-0.06	-0.67	-0.72	0.64
	CO841	Connected member	2.39	0.01	0	0	0
57	CO841	Connected member	18.8	0.54	0.05	0.72	2.04
	CO841	Connected member	-1.47	0.06	0.67	-0.72	0.64
57	CO842	Main member	19.11	-0.56	0.1	0.23	2.08
	CO842	Connected member	-1.47	-0.06	-0.67	-0.72	0.65
57	CO842	Connected member	2.39	0.01	0	0	0
	CO842	Connected member	19.11	0.56	-0.1	0.23	2.08
57	CO842	Connected member	-1.47	0.06	0.67	-0.72	0.65
	CO843	Main member	51.28	-0.56	3.23	2.65	2.02
57	CO843	Connected member	1.25	-0.05	-0.66	-0.73	0.59
	CO843	Connected member	2.36	0	0	0	-0.05
57	CO843	Connected member	51.28	0.56	-3.23	2.65	2.02
	CO843	Connected member	1.25	0.05	0.66	-0.73	0.59
57	CO844	Main member	57.82	-0.5	3.26	2.75	1.77
	CO844	Connected member	-0.63	-0.06	-0.65	-0.7	0.63
57	CO844	Connected member	2.32	0.02	0	0	0.06
	CO844	Connected member	57.82	0.5	-3.26	2.75	1.77
57	CO844	Connected member	-0.63	0.06	0.65	-0.7	0.63
	CO845	Main member	-30.22	-0.05	-0.94	-1.36	0.18
57	CO845	Connected member	6.71	-0.03	-0.79	-1.22	0.28
	CO845	Connected member	2.49	0.03	-0.09	0.3	0.12
57	CO845	Connected member	-18.56	0.11	4.08	-2.56	0.34
	CO845	Connected member	-8.74	0.01	0.59	-0.32	0.15
57	CO846	Main member	-40.26	-0.06	-3.37	-2.21	0.2
	CO846	Connected member	25.51	-0.04	-0.55	-0.18	0.29
57	CO846	Connected member	2.5	0.03	0.19	-0.53	0.12
	CO846	Connected member	-4	0.1	0.19	-0.52	0.32
57	CO846	Connected member	-25.75	0.01	0.81	-1.34	0.14
	CO847	Main member	-52.62	-0.06	-4.32	-3.61	0.21
57	CO847	Connected member	12.93	-0.04	-0.7	-0.8	0.29
	CO847	Connected member	2.5	0.03	0.02	-0.03	0.13
57	CO847	Connected member	-30.12	0.11	4.8	-3.64	0.34
	CO847	Connected member	-18.29	0.01	0.69	-0.72	0.15
57	CO848	Main member	-23.86	-0.04	-1.4	-0.58	0.17
	CO848	Connected member	18.88	-0.03	-0.64	-0.61	0.27
57	CO848	Connected member	2.5	0.03	0.08	-0.2	0.12
	CO848	Connected member	1.67	0.1	0.81	-0.04	0.32
57	CO848	Connected member	-16.76	0.01	0.73	-0.95	0.14
	CO849	Main member	-23.16	-0.55	-3.99	-3.01	2.14
57	CO849	Connected member	-3.7	-0.07	-0.68	-0.72	0.71
	CO849	Connected member	2.45	0.02	0	0	0.05
57	CO849	Connected member	-23.16	0.55	3.99	-3.01	2.14
	CO849	Connected member	-3.7	0.07	0.68	-0.72	0.71
57	CO850	Main member	15.3	-0.54	-0.77	0.16	2.04
	CO850	Connected member	-1.77	-0.06	-0.67	-0.72	0.64
57	CO850	Connected member	2.4	0.01	0	0	0
	CO850	Connected member	15.3	0.54	0.77	0.16	2.04



::LAVteam::

Page: 153/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO850	Connected member	-1.77	0.06	0.67	-0.72	0.64
	CO851	Main member	15.61	-0.56	-0.61	-0.33	2.08
	CO851	Connected member	-1.77	-0.07	-0.67	-0.72	0.65
	CO851	Connected member	2.39	0.01	0	0	0.01
	CO851	Connected member	15.61	0.56	0.61	-0.33	2.08
57	CO851	Connected member	-1.77	0.07	0.67	-0.72	0.65
	CO852	Main member	47.78	-0.56	2.52	2.1	2.02
	CO852	Connected member	0.95	-0.06	-0.66	-0.73	0.6
	CO852	Connected member	2.36	0	0	0	-0.04
	CO852	Connected member	47.78	0.56	-2.52	2.1	2.02
57	CO852	Connected member	0.95	0.06	0.66	-0.73	0.6
	CO853	Main member	54.32	-0.49	2.55	2.2	1.77
	CO853	Connected member	-0.94	-0.06	-0.65	-0.7	0.63
	CO853	Connected member	2.32	0.02	0	0	0.07
	CO853	Connected member	54.32	0.49	-2.55	2.2	1.77
57	CO853	Connected member	-0.94	0.06	0.65	-0.7	0.63
	CO854	Main member	-33.72	-0.05	-1.66	-1.92	0.18
	CO854	Connected member	6.41	-0.03	-0.79	-1.22	0.28
	CO854	Connected member	2.5	0.03	-0.09	0.3	0.12
	CO854	Connected member	-22.06	0.11	4.8	-3.12	0.34
57	CO854	Connected member	-9.04	0.01	0.59	-0.31	0.15
	CO855	Main member	-43.77	-0.06	-4.09	-2.77	0.2
	CO855	Connected member	25.22	-0.04	-0.55	-0.18	0.29
	CO855	Connected member	2.5	0.03	0.19	-0.53	0.12
	CO855	Connected member	-7.5	0.1	0.9	-1.08	0.32
57	CO855	Connected member	-26.06	0.01	0.81	-1.34	0.14
	CO856	Main member	-41.6	-0.06	-1.7	-1.57	0.21
	CO856	Connected member	14.37	-0.04	-0.7	-0.81	0.29
	CO856	Connected member	2.5	0.03	0.02	-0.03	0.12
	CO856	Connected member	-19.12	0.11	2.19	-1.61	0.33
57	CO856	Connected member	-16.83	0.01	0.69	-0.73	0.14
	CO857	Main member	-12.84	-0.04	1.2	1.44	0.16
	CO857	Connected member	20.31	-0.03	-0.64	-0.62	0.27
	CO857	Connected member	2.5	0.03	0.08	-0.19	0.11
	CO857	Connected member	12.67	0.1	-1.8	1.98	0.32
57	CO857	Connected member	-15.3	0.01	0.72	-0.96	0.13
	CO858	Main member	-12.15	-0.56	-1.38	-0.98	2.14
	CO858	Connected member	-2.25	-0.07	-0.68	-0.73	0.69
	CO858	Connected member	2.45	0.01	0	0	0.03
	CO858	Connected member	-12.15	0.56	1.38	-0.98	2.14
57	CO858	Connected member	-2.25	0.07	0.68	-0.73	0.69
	CO859	Main member	26.31	-0.55	1.84	2.17	2.04
	CO859	Connected member	-0.32	-0.06	-0.67	-0.73	0.62
	CO859	Connected member	2.4	0	0	0	-0.02
	CO859	Connected member	26.31	0.55	-1.84	2.17	2.04
57	CO859	Connected member	-0.32	0.06	0.67	-0.73	0.62
	CO860	Main member	26.61	-0.56	1.99	1.69	2.07
	CO860	Connected member	-0.33	-0.06	-0.67	-0.73	0.63
	CO860	Connected member	2.39	0	0	0	-0.01
	CO860	Connected member	26.61	0.56	-1.99	1.69	2.07
57	CO860	Connected member	-0.33	0.06	0.67	-0.73	0.63
	CO861	Main member	58.78	-0.56	5.11	4.1	2.01
	CO861	Connected member	2.39	-0.05	-0.66	-0.74	0.58
	CO861	Connected member	2.36	-0.01	0	0	-0.06
	CO861	Connected member	58.78	0.56	-5.11	4.1	2.01
57	CO861	Connected member	2.39	0.05	0.66	-0.74	0.58
	CO862	Main member	65.32	-0.5	5.15	4.2	1.77
	CO862	Connected member	0.51	-0.06	-0.65	-0.71	0.62
	CO862	Connected member	2.32	0.02	0	0	0.05
	CO862	Connected member	65.32	0.5	-5.15	4.2	1.77
57	CO862	Connected member	0.51	0.06	0.65	-0.71	0.62
	CO863	Main member	-22.71	-0.05	0.95	0.11	0.18
	CO863	Connected member	7.85	-0.03	-0.79	-1.23	0.28
	CO863	Connected member	2.5	0.03	-0.09	0.3	0.12
	CO863	Connected member	-11.06	0.11	2.19	-1.09	0.34
57	CO863	Connected member	-7.59	0.01	0.59	-0.33	0.15
	CO864	Main member	-32.75	-0.06	-1.48	-0.74	0.2
	CO864	Connected member	26.65	-0.04	-0.55	-0.2	0.29
	CO864	Connected member	2.5	0.03	0.19	-0.52	0.12
	CO864	Connected member	3.5	0.1	-1.7	0.95	0.32
57	CO864	Connected member	-24.59	0.01	0.81	-1.35	0.13
	CO865	Main member	-54.96	-0.06	-4.79	-3.98	0.21
	CO865	Connected member	12.73	-0.04	-0.7	-0.79	0.29
	CO865	Connected member	2.5	0.03	0.02	-0.03	0.13
	CO865	Connected member	-32.46	0.11	5.28	-4.02	0.34
57	CO865	Connected member	-18.49	0.01	0.69	-0.72	0.15
	CO866	Main member	-26.19	-0.04	-1.88	-0.95	0.17
	CO866	Connected member	18.68	-0.03	-0.64	-0.6	0.27
	CO866	Connected member	2.5	0.03	0.08	-0.2	0.12
	CO866	Connected member	-0.66	0.1	1.28	-0.41	0.32
57	CO866	Connected member	-16.97	0.01	0.73	-0.95	0.14
	CO867	Main member	-25.49	-0.55	-4.47	-3.38	2.15
	CO867	Connected member	-3.9	-0.08	-0.68	-0.72	0.71
	CO867	Connected member	2.45	0.02	0	0	0.05
	CO867	Connected member	-25.49	0.55	4.47	-3.38	2.15
57	CO867	Connected member	-3.9	0.08	0.68	-0.72	0.71
	CO868	Main member	12.97	-0.54	-1.24	-0.21	2.05
	CO868	Connected member	-1.97	-0.06	-0.67	-0.72	0.65
	CO868	Connected member	2.4	0.01	0	0	0.01
	CO868	Connected member	12.97	0.54	1.24	-0.21	2.05
57	CO868	Connected member	-1.97	0.06	0.67	-0.72	0.65
	CO869	Main member	13.28	-0.56	-1.09	-0.7	2.08
	CO869	Connected member	-1.97	-0.07	-0.67	-0.72	0.66
	CO869	Connected member	2.39	0.01	0	0	0.01



::LAV/team::

Page: 154/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO869	Connected member	13.28	0.56	1.09	-0.7	2.08
	CO869	Connected member	-1.97	0.07	0.67	-0.72	0.66
	CO870	Main member	45.45	-0.55	2.04	1.73	2.02
	CO870	Connected member	0.75	-0.06	-0.66	-0.73	0.6
57	CO870	Connected member	2.36	0	0	0	-0.04
	CO870	Connected member	45.45	0.55	-2.04	1.73	2.02
	CO870	Connected member	0.75	0.06	0.66	-0.73	0.6
	CO871	Main member	51.99	-0.49	2.07	1.83	1.77
57	CO871	Connected member	-1.14	-0.06	-0.65	-0.7	0.64
	CO871	Connected member	2.32	0.02	0	0	0.07
	CO871	Connected member	51.99	0.49	-2.07	1.83	1.77
	CO871	Connected member	-1.14	0.06	0.65	-0.7	0.64
57	CO872	Main member	-36.06	-0.05	-2.13	-2.29	0.18
	CO872	Connected member	6.21	-0.03	-0.79	-1.22	0.28
	CO872	Connected member	2.5	0.03	-0.09	0.3	0.12
	CO872	Connected member	-24.39	0.11	5.28	-3.5	0.34
57	CO872	Connected member	-9.25	0.01	0.59	-0.31	0.15
	CO873	Main member	-46.1	-0.06	-4.57	-3.14	0.2
	CO873	Connected member	25.02	-0.04	-0.55	-0.18	0.29
	CO873	Connected member	2.5	0.03	0.19	-0.53	0.12
57	CO873	Connected member	-9.83	0.1	1.38	-1.45	0.32
	CO873	Connected member	-26.26	0.01	0.82	-1.34	0.14
	CO874	Main member	-54.22	-0.06	-4.76	-3.86	0.21
	CO874	Connected member	13.88	-0.04	-0.68	-0.71	0.29
57	CO874	Connected member	2.5	0.03	0.05	-0.1	0.13
	CO874	Connected member	-30.29	0.11	4.71	-3.67	0.34
	CO874	Connected member	-19.38	0.01	0.71	-0.8	0.15
	CO875	Main member	-25.45	-0.04	-1.85	-0.84	0.17
57	CO875	Connected member	19.82	-0.03	-0.62	-0.52	0.27
	CO875	Connected member	2.5	0.03	0.1	-0.26	0.12
	CO875	Connected member	1.51	0.1	0.72	-0.06	0.32
	CO875	Connected member	-17.86	0.01	0.74	-1.03	0.14
57	CO876	Main member	-24.75	-0.55	-4.44	-3.27	2.15
	CO876	Connected member	-2.75	-0.08	-0.67	-0.64	0.71
	CO876	Connected member	2.45	0.02	0.02	-0.06	0.05
	CO876	Connected member	-23.32	0.55	3.91	-3.04	2.15
57	CO876	Connected member	-4.79	0.07	0.7	-0.81	0.71
	CO877	Main member	13.72	-0.54	-1.21	-0.09	2.05
	CO877	Connected member	-0.83	-0.06	-0.65	-0.64	0.64
	CO877	Connected member	2.4	0.01	0.02	-0.06	0.01
57	CO877	Connected member	15.14	0.54	0.68	0.14	2.05
	CO877	Connected member	-2.86	0.06	0.69	-0.8	0.64
	CO878	Main member	14.02	-0.56	-1.05	-0.58	2.08
	CO878	Connected member	-0.83	-0.07	-0.65	-0.63	0.66
57	CO878	Connected member	2.39	0.01	0.02	-0.06	0.01
	CO878	Connected member	15.45	0.56	0.53	-0.35	2.08
	CO878	Connected member	-2.87	0.06	0.69	-0.8	0.65
	CO879	Main member	46.2	-0.55	2.08	1.85	2.02
57	CO879	Connected member	1.89	-0.06	-0.64	-0.65	0.6
	CO879	Connected member	2.36	0	0.02	-0.06	-0.04
	CO879	Connected member	47.62	0.56	-2.6	2.08	2.02
	CO879	Connected member	-0.14	0.05	0.68	-0.81	0.6
57	CO880	Main member	52.74	-0.49	2.11	1.95	1.77
	CO880	Connected member	0	-0.06	-0.63	-0.61	0.64
	CO880	Connected member	2.32	0.02	0.02	-0.06	0.07
	CO880	Connected member	54.16	0.49	-2.63	2.17	1.77
57	CO880	Connected member	-2.03	0.06	0.67	-0.78	0.63
	CO881	Main member	-35.31	-0.05	-2.1	-2.17	0.18
	CO881	Connected member	7.36	-0.03	-0.77	-1.14	0.28
	CO881	Connected member	2.5	0.03	-0.07	0.24	0.12
57	CO881	Connected member	-22.22	0.11	4.71	-3.15	0.34
	CO881	Connected member	-10.14	0.01	0.61	-0.4	0.15
	CO882	Main member	-45.36	-0.06	-4.53	-3.02	0.2
	CO882	Connected member	26.16	-0.04	-0.53	-0.1	0.29
57	CO882	Connected member	2.5	0.03	0.21	-0.59	0.12
	CO882	Connected member	-7.66	0.1	0.82	-1.1	0.32
	CO882	Connected member	-27.15	0.01	0.83	-1.42	0.14
	CO883	Main member	-58.47	-0.06	-5.51	-4.54	0.21
57	CO883	Connected member	12.43	-0.04	-0.7	-0.79	0.29
	CO883	Connected member	2.51	0.03	0.02	-0.04	0.13
	CO883	Connected member	-35.96	0.11	6	-4.58	0.34
	CO883	Connected member	-18.8	0.01	0.69	-0.72	0.15
57	CO884	Main member	-29.7	-0.04	-2.6	-1.51	0.17
	CO884	Connected member	18.38	-0.03	-0.64	-0.6	0.27
	CO884	Connected member	2.5	0.03	0.08	-0.2	0.12
	CO884	Connected member	-4.16	0.1	2	-0.97	0.32
57	CO884	Connected member	-17.27	0.01	0.73	-0.95	0.14
	CO885	Main member	-29	-0.55	-5.19	-3.95	2.15
	CO885	Connected member	-4.2	-0.08	-0.69	-0.72	0.72
	CO885	Connected member	2.45	0.02	0	0	0.06
57	CO885	Connected member	-29	0.55	5.19	-3.95	2.15
	CO885	Connected member	-4.2	0.08	0.69	-0.72	0.72
	CO886	Main member	9.47	-0.54	-1.96	-0.77	2.05
	CO886	Connected member	-2.28	-0.07	-0.67	-0.72	0.65
57	CO886	Connected member	2.4	0.01	0	0	0.01
	CO886	Connected member	9.47	0.54	1.96	-0.77	2.05
	CO886	Connected member	-2.28	0.07	0.67	-0.72	0.65
	CO887	Main member	9.78	-0.55	-1.8	-1.26	2.08
57	CO887	Connected member	-2.28	-0.07	-0.67	-0.71	0.66
	CO887	Connected member	2.39	0.01	0	0	0.02
	CO887	Connected member	9.78	0.55	1.8	-1.26	2.08
	CO887	Connected member	-2.28	0.07	0.67	-0.71	0.66
57	CO888	Main member	41.95	-0.55	1.33	1.18	2.03
	CO888	Connected member	0.44	-0.06	-0.66	-0.72	0.61



::LAV/team::

Page: 155/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO888	Connected member	2.36	0	0	0	-0.03
	CO888	Connected member	41.95	0.55	-1.33	1.18	2.03
	CO888	Connected member	0.44	0.06	0.66	-0.72	0.61
57	CO889	Main member	48.49	-0.49	1.36	1.28	1.78
	CO889	Connected member	-1.44	-0.06	-0.65	-0.69	0.64
	CO889	Connected member	2.33	0.02	0	0	0.07
57	CO889	Connected member	48.49	0.49	-1.36	1.28	1.78
	CO889	Connected member	-1.44	0.06	0.65	-0.69	0.64
	CO890	Main member	-39.57	-0.05	-2.85	-2.85	0.18
57	CO890	Connected member	5.91	-0.03	-0.79	-1.22	0.28
	CO890	Connected member	2.5	0.03	-0.09	0.3	0.12
	CO890	Connected member	-27.9	0.11	5.99	-4.06	0.34
57	CO890	Connected member	-9.55	0.01	0.59	-0.31	0.15
	CO891	Main member	-49.61	-0.06	-5.28	-3.7	0.2
	CO891	Connected member	24.72	-0.04	-0.55	-0.18	0.29
57	CO891	Connected member	2.5	0.03	0.19	-0.53	0.12
	CO891	Connected member	-13.33	0.1	2.09	-2.01	0.32
	CO891	Connected member	-26.57	0.01	0.82	-1.34	0.14
57	CO892	Main member	-57.72	-0.06	-5.48	-4.43	0.21
	CO892	Connected member	13.58	-0.04	-0.68	-0.71	0.29
	CO892	Connected member	2.51	0.03	0.05	-0.1	0.13
57	CO892	Connected member	-33.79	0.11	5.43	-4.23	0.34
	CO892	Connected member	-19.69	0.01	0.71	-0.8	0.15
	CO893	Main member	-28.95	-0.04	-2.56	-1.4	0.17
57	CO893	Connected member	19.52	-0.03	-0.62	-0.52	0.27
	CO893	Connected member	2.5	0.03	0.1	-0.26	0.12
	CO893	Connected member	-1.99	0.1	1.44	-0.62	0.32
57	CO893	Connected member	-18.16	0.01	0.74	-1.03	0.14
	CO894	Main member	-28.25	-0.55	-5.15	-3.83	2.15
	CO894	Connected member	-3.06	-0.08	-0.67	-0.64	0.71
57	CO894	Connected member	2.45	0.02	0.02	-0.06	0.06
	CO894	Connected member	-26.82	0.55	4.62	-3.6	2.15
	CO894	Connected member	-5.09	0.08	0.7	-0.8	0.71
57	CO895	Main member	10.22	-0.54	-1.92	-0.65	2.05
	CO895	Connected member	-1.13	-0.07	-0.65	-0.63	0.65
	CO895	Connected member	2.4	0.01	0.02	-0.06	0.01
57	CO895	Connected member	11.64	0.54	1.4	-0.42	2.05
	CO895	Connected member	-3.17	0.06	0.69	-0.8	0.65
	CO896	Main member	10.52	-0.55	-1.77	-1.14	2.08
57	CO896	Connected member	-1.13	-0.07	-0.65	-0.63	0.66
	CO896	Connected member	2.39	0.01	0.02	-0.06	0.02
	CO896	Connected member	11.95	0.56	1.24	-0.91	2.08
57	CO896	Connected member	-3.17	0.07	0.69	-0.8	0.66
	CO897	Main member	42.7	-0.55	1.36	1.3	2.02
	CO897	Connected member	1.59	-0.06	-0.64	-0.64	0.61
57	CO897	Connected member	2.36	0	0.02	-0.06	-0.03
	CO897	Connected member	44.12	0.55	-1.89	1.52	2.02
	CO897	Connected member	-0.45	0.06	0.68	-0.81	0.6
57	CO898	Main member	49.24	-0.49	1.4	1.39	1.78
	CO898	Connected member	-0.3	-0.06	-0.64	-0.61	0.64
	CO898	Connected member	2.33	0.02	0.02	-0.06	0.07
57	CO898	Connected member	50.66	0.49	-1.92	1.62	1.78
	CO898	Connected member	-2.33	0.06	0.67	-0.78	0.64
	CO899	Main member	-38.82	-0.05	-2.82	-2.73	0.18
57	CO899	Connected member	7.06	-0.03	-0.77	-1.13	0.28
	CO899	Connected member	2.5	0.03	-0.07	0.24	0.12
	CO899	Connected member	-25.72	0.11	5.43	-3.71	0.34
57	CO899	Connected member	-10.44	0.01	0.61	-0.39	0.15
	CO900	Main member	-48.86	-0.06	-5.25	-3.59	0.2
	CO900	Connected member	25.86	-0.04	-0.53	-0.09	0.29
57	CO900	Connected member	2.5	0.03	0.21	-0.59	0.12
	CO900	Connected member	-11.16	0.1	1.53	-1.66	0.32
	CO900	Connected member	-27.46	0.01	0.83	-1.42	0.14
57	CO901	Main member	-47.45	-0.06	-2.9	-2.5	0.21
	CO901	Connected member	13.87	-0.04	-0.7	-0.8	0.29
	CO901	Connected member	2.51	0.03	0.02	-0.03	0.13
57	CO901	Connected member	-24.96	0.11	3.38	-2.54	0.33
	CO901	Connected member	-17.34	0.01	0.69	-0.73	0.14
	CO902	Main member	-18.68	-0.04	0.01	0.51	0.16
57	CO902	Connected member	19.81	-0.03	-0.64	-0.61	0.27
	CO902	Connected member	2.5	0.03	0.08	-0.19	0.11
	CO902	Connected member	6.84	0.1	-0.61	1.05	0.32
57	CO902	Connected member	-15.81	0.01	0.72	-0.96	0.13
	CO903	Main member	-17.99	-0.56	-2.58	-1.91	2.14
	CO903	Connected member	-2.75	-0.07	-0.68	-0.73	0.7
57	CO903	Connected member	2.45	0.02	0	0	0.04
	CO903	Connected member	-17.99	0.56	2.58	-1.91	2.14
	CO903	Connected member	-2.75	0.07	0.68	-0.73	0.7
57	CO904	Main member	20.47	-0.55	0.65	1.25	2.04
	CO904	Connected member	-0.83	-0.06	-0.67	-0.73	0.63
	CO904	Connected member	2.4	0	0	0	-0.01
57	CO904	Connected member	20.47	0.55	-0.65	1.25	2.04
	CO904	Connected member	-0.83	0.06	0.67	-0.73	0.63
	CO905	Main member	20.78	-0.56	0.8	0.76	2.08
57	CO905	Connected member	-0.83	-0.06	-0.67	-0.72	0.64
	CO905	Connected member	2.4	0.01	0	0	0
	CO905	Connected member	20.78	0.56	-0.8	0.76	2.08
57	CO905	Connected member	-0.83	0.06	0.67	-0.72	0.64
	CO906	Main member	52.95	-0.56	3.93	3.18	2.02
	CO906	Connected member	1.89	-0.05	-0.66	-0.74	0.59
57	CO906	Connected member	2.36	-0.01	0	0	-0.05
	CO906	Connected member	52.95	0.56	-3.93	3.18	2.02
	CO906	Connected member	1.89	0.05	0.66	-0.74	0.59
57	CO907	Main member	59.49	-0.5	3.96	3.28	1.77



::LAV/team::

Page: 156/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO907	Connected member	0.01	-0.06	-0.65	-0.71	0.62
	CO907	Connected member	2.33	0.02	0	0	0.06
	CO907	Connected member	59.49	0.5	-3.96	3.28	1.77
57	CO907	Connected member	0.01	0.06	0.65	-0.71	0.62
	CO908	Main member	-28.55	-0.05	-0.24	-0.82	0.18
	CO908	Connected member	7.35	-0.03	-0.79	-1.23	0.28
57	CO908	Connected member	2.5	0.03	-0.09	0.3	0.12
	CO908	Connected member	-16.89	0.11	3.38	-2.03	0.34
	CO908	Connected member	-8.1	0.01	0.59	-0.32	0.15
57	CO909	Main member	-38.59	-0.06	-2.67	-1.67	0.2
	CO909	Connected member	26.15	-0.04	-0.55	-0.19	0.29
	CO909	Connected member	2.5	0.03	0.19	-0.53	0.12
57	CO909	Connected member	-2.33	0.1	-0.51	0.02	0.32
	CO909	Connected member	-25.1	0.01	0.81	-1.35	0.13
	CO910	Main member	-46.7	-0.06	-2.87	-2.39	0.21
57	CO910	Connected member	15.01	-0.04	-0.68	-0.72	0.29
	CO910	Connected member	2.51	0.03	0.05	-0.1	0.12
	CO910	Connected member	-22.78	0.11	2.82	-2.19	0.33
57	CO910	Connected member	-18.23	0.01	0.7	-0.81	0.14
	CO911	Main member	-17.93	-0.04	0.04	0.63	0.16
	CO911	Connected member	20.96	-0.03	-0.62	-0.53	0.27
57	CO911	Connected member	2.5	0.03	0.1	-0.26	0.11
	CO911	Connected member	9.01	0.1	-1.17	1.4	0.32
	CO911	Connected member	-16.7	0.01	0.74	-1.04	0.13
57	CO912	Main member	-17.24	-0.56	-2.54	-1.8	2.14
	CO912	Connected member	-1.61	-0.07	-0.66	-0.65	0.7
	CO912	Connected member	2.45	0.01	0.02	-0.06	0.04
57	CO912	Connected member	-15.82	0.56	2.02	-1.56	2.14
	CO912	Connected member	-3.65	0.07	0.7	-0.81	0.69
57	CO913	Main member	21.22	-0.55	0.68	1.37	2.04
	CO913	Connected member	0.31	-0.06	-0.65	-0.65	0.63
	CO913	Connected member	2.4	0	0.02	-0.06	-0.01
57	CO913	Connected member	22.64	0.55	-1.21	1.59	2.04
	CO913	Connected member	-1.72	0.06	0.69	-0.81	0.63
57	CO914	Main member	21.52	-0.56	0.84	0.88	2.08
	CO914	Connected member	0.31	-0.06	-0.65	-0.64	0.64
	CO914	Connected member	2.4	0	0.02	-0.06	-0.01
57	CO914	Connected member	22.95	0.56	-1.36	1.11	2.08
	CO914	Connected member	-1.72	0.06	0.69	-0.81	0.64
57	CO915	Main member	53.69	-0.56	3.96	3.3	2.02
	CO915	Connected member	3.03	-0.05	-0.64	-0.66	0.59
	CO915	Connected member	2.36	-0.01	0.02	-0.06	-0.06
57	CO915	Connected member	55.12	0.56	-4.48	3.53	2.02
	CO915	Connected member	1	0.05	0.67	-0.82	0.59
57	CO916	Main member	60.23	-0.5	4	3.4	1.77
	CO916	Connected member	1.15	-0.06	-0.63	-0.62	0.62
	CO916	Connected member	2.33	0.02	0.02	-0.06	0.05
57	CO916	Connected member	61.66	0.5	-4.52	3.62	1.77
	CO916	Connected member	-0.88	0.06	0.67	-0.79	0.62
57	CO917	Main member	-27.8	-0.05	-0.21	-0.7	0.18
	CO917	Connected member	8.5	-0.03	-0.77	-1.15	0.28
	CO917	Connected member	2.5	0.03	-0.07	0.24	0.12
57	CO917	Connected member	-14.72	0.11	2.82	-1.68	0.34
	CO917	Connected member	-8.99	0.01	0.61	-0.41	0.15
57	CO918	Main member	-37.84	-0.06	-2.64	-1.55	0.2
	CO918	Connected member	27.29	-0.04	-0.53	-0.11	0.29
	CO918	Connected member	2.5	0.03	0.21	-0.59	0.12
57	CO918	Connected member	-0.16	0.1	-1.07	0.36	0.32
	CO918	Connected member	-26	0.01	0.83	-1.43	0.13
57	CO919	Main member	-43.94	-0.06	-2.18	-1.94	0.21
	CO919	Connected member	14.17	-0.04	-0.7	-0.81	0.29
	CO919	Connected member	2.51	0.03	0.02	-0.03	0.12
57	CO919	Connected member	-21.45	0.11	2.67	-1.98	0.33
	CO919	Connected member	-17.03	0.01	0.69	-0.73	0.14
57	CO920	Main member	-15.18	-0.04	0.73	1.07	0.16
	CO920	Connected member	20.11	-0.03	-0.64	-0.62	0.27
	CO920	Connected member	2.5	0.03	0.08	-0.19	0.11
57	CO920	Connected member	10.34	0.1	-1.32	1.61	0.32
	CO920	Connected member	-15.51	0.01	0.72	-0.96	0.13
57	CO921	Main member	-14.49	-0.56	-1.86	-1.35	2.14
	CO921	Connected member	-2.45	-0.07	-0.68	-0.73	0.69
	CO921	Connected member	2.45	0.01	0	0	0.03
57	CO921	Connected member	-14.49	0.56	1.86	-1.35	2.14
	CO921	Connected member	-2.45	0.07	0.68	-0.73	0.69
57	CO922	Main member	23.97	-0.55	1.36	1.8	2.04
	CO922	Connected member	-0.53	-0.06	-0.67	-0.73	0.63
	CO922	Connected member	2.4	0	0	0	-0.01
57	CO922	Connected member	23.97	0.55	-1.36	1.8	2.04
	CO922	Connected member	-0.53	0.06	0.67	-0.73	0.63
57	CO923	Main member	24.28	-0.56	1.52	1.32	2.07
	CO923	Connected member	-0.53	-0.06	-0.67	-0.73	0.64
	CO923	Connected member	2.39	0	0	0	-0.01
57	CO923	Connected member	24.28	0.56	-1.52	1.32	2.07
	CO923	Connected member	-0.53	0.06	0.67	-0.73	0.64
57	CO924	Main member	56.45	-0.56	4.64	3.74	2.02
	CO924	Connected member	2.19	-0.05	-0.66	-0.74	0.58
	CO924	Connected member	2.36	-0.01	0	0	-0.06
57	CO924	Connected member	56.45	0.56	-4.64	3.74	2.02
	CO924	Connected member	2.19	0.05	0.66	-0.74	0.58
57	CO925	Main member	62.99	-0.5	4.67	3.83	1.77
	CO925	Connected member	0.31	-0.06	-0.65	-0.71	0.62
	CO925	Connected member	2.33	0.02	0	0	0.05
57	CO925	Connected member	62.99	0.5	-4.67	3.83	1.77
	CO925	Connected member	0.31	0.06	0.65	-0.71	0.62



::LAV/team::

Page: 157/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO926	Main member	-25.04	-0.05	0.47	-0.26	0.18
	CO926	Connected member	7.65	-0.03	-0.79	-1.23	0.28
	CO926	Connected member	2.5	0.03	-0.09	0.3	0.12
	CO926	Connected member	-13.39	0.11	2.66	-1.47	0.34
	CO926	Connected member	-7.79	0.01	0.59	-0.32	0.15
57	CO927	Main member	-35.08	-0.06	-1.95	-1.11	0.2
	CO927	Connected member	26.45	-0.04	-0.55	-0.19	0.29
	CO927	Connected member	2.5	0.03	0.19	-0.53	0.12
	CO927	Connected member	1.17	0.1	-1.23	0.57	0.32
	CO927	Connected member	-24.8	0.01	0.81	-1.35	0.13
57	CO928	Main member	-43.19	-0.06	-2.15	-1.83	0.21
	CO928	Connected member	15.31	-0.04	-0.68	-0.72	0.29
	CO928	Connected member	2.51	0.03	0.05	-0.1	0.12
	CO928	Connected member	-19.28	0.11	2.1	-1.63	0.33
	CO928	Connected member	-17.92	0.01	0.7	-0.81	0.14
57	CO929	Main member	-14.43	-0.04	0.76	1.19	0.16
	CO929	Connected member	21.25	-0.03	-0.62	-0.53	0.27
	CO929	Connected member	2.5	0.03	0.1	-0.26	0.11
	CO929	Connected member	12.51	0.1	-1.88	1.95	0.32
	CO929	Connected member	-16.4	0.01	0.74	-1.04	0.13
57	CO930	Main member	-13.74	-0.56	-1.83	-1.24	2.14
	CO930	Connected member	-1.31	-0.07	-0.66	-0.65	0.69
	CO930	Connected member	2.45	0.01	0.02	-0.06	0.03
	CO930	Connected member	-12.31	0.56	1.3	-1.01	2.14
	CO930	Connected member	-3.34	0.07	0.7	-0.82	0.69
57	CO931	Main member	24.72	-0.55	1.4	1.92	2.04
	CO931	Connected member	0.62	-0.06	-0.65	-0.65	0.63
	CO931	Connected member	2.4	0	0.02	-0.06	-0.01
	CO931	Connected member	26.14	0.55	-1.92	2.15	2.04
	CO931	Connected member	-1.42	0.06	0.69	-0.81	0.62
57	CO932	Main member	25.02	-0.56	1.55	1.43	2.07
	CO932	Connected member	0.62	-0.06	-0.65	-0.65	0.64
	CO932	Connected member	2.39	0	0.02	-0.06	-0.01
	CO932	Connected member	26.45	0.56	-2.08	1.66	2.07
	CO932	Connected member	-1.42	0.06	0.68	-0.81	0.63
57	CO933	Main member	57.19	-0.56	4.67	3.85	2.02
	CO933	Connected member	3.34	-0.05	-0.64	-0.66	0.58
	CO933	Connected member	2.36	-0.01	0.02	-0.06	-0.06
	CO933	Connected member	58.62	0.56	-5.2	4.08	2.02
	CO933	Connected member	1.3	0.05	0.67	-0.82	0.58
57	CO934	Main member	63.73	-0.5	4.71	3.95	1.77
	CO934	Connected member	1.45	-0.06	-0.63	-0.63	0.62
	CO934	Connected member	2.32	0.02	0.02	-0.06	0.05
	CO934	Connected member	65.15	0.5	-5.23	4.17	1.77
	CO934	Connected member	-0.58	0.06	0.67	-0.79	0.62
57	CO935	Main member	-24.3	-0.05	0.51	-0.14	0.18
	CO935	Connected member	8.8	-0.03	-0.77	-1.15	0.28
	CO935	Connected member	2.5	0.03	-0.07	0.24	0.12
	CO935	Connected member	-11.22	0.11	2.1	-1.12	0.34
	CO935	Connected member	-8.68	0.01	0.61	-0.41	0.15
57	CO936	Main member	-34.34	-0.06	-1.92	-0.99	0.2
	CO936	Connected member	27.59	-0.04	-0.53	-0.11	0.29
	CO936	Connected member	2.5	0.03	0.21	-0.59	0.12
	CO936	Connected member	3.34	0.1	-1.79	0.92	0.32
	CO936	Connected member	-25.69	0.01	0.83	-1.43	0.13
57	CO937	Main member	-16.02	0	-0.7	-0.49	0.01
	CO937	Connected member	-0.96	0	-0.68	-0.75	0.01
	CO937	Connected member	2.47	0	0	0	0.01
	CO937	Connected member	-16.02	0	0.7	-0.49	0.01
	CO937	Connected member	-0.96	0	0.68	-0.75	0.01
57	CO938	Main member	-27.03	-0.01	-3.31	-2.52	0.02
	CO938	Connected member	-2.41	0	-0.69	-0.74	0.01
	CO938	Connected member	2.47	0	0	0	0.01
	CO938	Connected member	-27.03	0.01	3.31	-2.52	0.02
	CO938	Connected member	-2.41	0	0.69	-0.74	0.01
57	CO939	Main member	-30.53	-0.01	-4.02	-3.08	0.02
	CO939	Connected member	-2.71	0	-0.69	-0.74	0.01
	CO939	Connected member	2.48	0	0	0	0.01
	CO939	Connected member	-30.53	0.01	4.02	-3.08	0.02
	CO939	Connected member	-2.71	0	0.69	-0.74	0.01
57	CO940	Main member	-19.52	0	-1.41	-1.05	0.01
	CO940	Connected member	-1.27	0	-0.69	-0.75	0.01
	CO940	Connected member	2.48	0	0	0	0.01
	CO940	Connected member	-19.52	0	1.41	-1.05	0.01
	CO940	Connected member	-1.27	0	0.69	-0.75	0.01
57	CO941	Main member	-18.35	0	-1.17	-0.86	0.01
	CO941	Connected member	-1.17	0	-0.69	-0.75	0.01
	CO941	Connected member	2.48	0	0	0	0.01
	CO941	Connected member	-18.35	0	1.17	-0.86	0.01
	CO941	Connected member	-1.17	0	0.69	-0.75	0.01
57	CO942	Main member	-18.06	0	-1.16	-0.82	0.01
	CO942	Connected member	-0.71	0	-0.68	-0.72	0.01
	CO942	Connected member	2.48	0	0.01	-0.03	0.01
	CO942	Connected member	-17.49	0	0.95	-0.72	0.01
	CO942	Connected member	-1.52	0	0.69	-0.79	0.01
57	CO943	Main member	-29.37	-0.01	-3.78	-2.9	0.02
	CO943	Connected member	-2.61	0	-0.69	-0.74	0.01
	CO943	Connected member	2.47	0	0	0	0.01
	CO943	Connected member	-29.37	0.01	3.78	-2.9	0.02
	CO943	Connected member	-2.61	0	0.69	-0.74	0.01
57	CO944	Main member	-29.07	-0.01	-3.77	-2.85	0.02
	CO944	Connected member	-2.16	0	-0.68	-0.71	0.01
	CO944	Connected member	2.47	0	0.01	-0.03	0.01
	CO944	Connected member	-28.5	0.01	3.56	-2.76	0.02



::LAV/team::

Page: 158/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO944	Connected member	-2.97	0	0.69	-0.78	0.01
	CO945	Main member	-32.87	-0.01	-4.5	-3.46	0.02
	CO945	Connected member	-2.92	0	-0.69	-0.74	0.01
57	CO945	Connected member	2.48	0	0	0	0.01
	CO945	Connected member	-32.87	0.01	4.5	-3.46	0.02
	CO945	Connected member	-2.92	0	0.69	-0.74	0.01
57	CO946	Main member	-32.57	-0.01	-4.49	-3.41	0.02
	CO946	Connected member	-2.46	0	-0.68	-0.71	0.01
	CO946	Connected member	2.48	0	0.01	-0.03	0.01
57	CO946	Connected member	-32	0.01	4.28	-3.32	0.02
	CO946	Connected member	-3.27	0	0.7	-0.77	0.01
	CO947	Main member	-21.86	0	-1.89	-1.42	0.02
57	CO947	Connected member	-1.47	0	-0.69	-0.75	0.01
	CO947	Connected member	2.48	0	0	0	0.01
	CO947	Connected member	-21.86	0	1.89	-1.42	0.02
57	CO947	Connected member	-1.47	0	0.69	-0.75	0.01
	CO948	Main member	-21.56	0	-1.88	-1.38	0.02
	CO948	Connected member	-1.01	0	-0.68	-0.72	0.01
57	CO948	Connected member	2.48	0	0.01	-0.03	0.01
	CO948	Connected member	-20.99	0	1.67	-1.28	0.01
	CO948	Connected member	-1.82	0	0.69	-0.78	0.01
57	CO949	Main member	-20.44	-0.02	-0.76	-0.59	0.05
	CO949	Connected member	2.17	-0.01	-0.69	-0.77	0.07
	CO949	Connected member	2.48	0.01	0	-0.01	0.03
57	CO949	Connected member	-15.93	0.02	0.85	-0.6	0.08
	CO949	Connected member	-4.08	0	0.68	-0.75	0.04
	CO950	Main member	-14.69	-0.01	-0.17	0.01	0.04
57	CO950	Connected member	3.36	-0.01	-0.68	-0.73	0.06
	CO950	Connected member	2.48	0.01	0.02	-0.04	0.03
	CO950	Connected member	-9.57	0.02	0.05	0.12	0.07
57	CO950	Connected member	-3.78	0	0.69	-0.8	0.04
	CO951	Main member	-14.55	-0.12	-0.69	-0.48	0.44
	CO951	Connected member	-1.16	-0.01	-0.68	-0.75	0.14
57	CO951	Connected member	2.47	0	0	0	0.01
	CO951	Connected member	-14.55	0.12	0.69	-0.48	0.44
	CO951	Connected member	-1.16	0.01	0.68	-0.75	0.14
57	CO952	Main member	-6.85	-0.11	-0.05	0.16	0.43
	CO952	Connected member	-0.78	-0.01	-0.68	-0.75	0.14
	CO952	Connected member	2.46	0	0	0	0
57	CO952	Connected member	-6.85	0.11	0.05	0.16	0.43
	CO952	Connected member	-0.78	0.01	0.68	-0.75	0.14
	CO953	Main member	-6.79	-0.11	-0.02	0.06	0.43
57	CO953	Connected member	-0.78	-0.01	-0.68	-0.75	0.14
	CO953	Connected member	2.46	0	0	0	0
	CO953	Connected member	-6.79	0.11	0.02	0.06	0.43
57	CO953	Connected member	-0.78	0.01	0.68	-0.75	0.14
	CO954	Main member	-0.35	-0.11	0.61	0.55	0.42
	CO954	Connected member	-0.23	-0.01	-0.68	-0.75	0.14
57	CO954	Connected member	2.45	0	0	0	0
	CO954	Connected member	-0.35	0.11	-0.61	0.55	0.42
	CO954	Connected member	-0.23	0.01	0.68	-0.75	0.14
57	CO955	Main member	0.95	-0.1	0.62	0.57	0.38
	CO955	Connected member	-0.61	-0.01	-0.68	-0.75	0.14
	CO955	Connected member	2.44	0.01	0	0	0.02
57	CO955	Connected member	0.95	0.1	-0.62	0.57	0.38
	CO955	Connected member	-0.61	0.01	0.68	-0.75	0.14
57	CO956	Main member	-16.66	-0.01	-0.23	-0.26	0.05
	CO956	Connected member	0.87	-0.01	-0.7	-0.85	0.06
	CO956	Connected member	2.48	0.01	-0.02	0.06	0.03
57	CO956	Connected member	-14.32	0.03	0.85	-0.5	0.08
	CO956	Connected member	-2.23	0	0.67	-0.67	0.04
	CO957	Main member	-18.67	-0.02	-0.71	-0.43	0.05
57	CO957	Connected member	4.62	-0.01	-0.66	-0.64	0.07
	CO957	Connected member	2.48	0.01	0.04	-0.11	0.03
	CO957	Connected member	-11.41	0.02	0.07	-0.09	0.07
57	CO957	Connected member	-5.64	0	0.71	-0.88	0.04
	CO958	Main member	-31.45	-0.02	-3.37	-2.63	0.06
57	CO958	Connected member	0.72	-0.01	-0.69	-0.75	0.07
	CO958	Connected member	2.48	0.01	0	-0.01	0.03
	CO958	Connected member	-26.94	0.03	3.46	-2.63	0.08
57	CO958	Connected member	-5.53	0	0.69	-0.74	0.04
	CO959	Main member	-25.7	-0.01	-2.78	-2.02	0.05
57	CO959	Connected member	1.91	-0.01	-0.68	-0.72	0.06
	CO959	Connected member	2.48	0.01	0.02	-0.04	0.03
	CO959	Connected member	-20.58	0.02	2.66	-1.91	0.08
57	CO959	Connected member	-5.23	0	0.69	-0.79	0.04
	CO960	Main member	-25.56	-0.11	-3.3	-2.51	0.44
	CO960	Connected member	-2.61	-0.02	-0.69	-0.74	0.15
57	CO960	Connected member	2.47	0	0	0	0.01
	CO960	Connected member	-25.56	0.11	3.3	-2.51	0.44
	CO960	Connected member	-2.61	0.02	0.69	-0.74	0.15
57	CO961	Main member	-17.86	-0.11	-2.65	-1.87	0.43
	CO961	Connected member	-2.22	-0.01	-0.68	-0.74	0.14
	CO961	Connected member	2.46	0	0	0	0.01
57	CO961	Connected member	-17.86	0.11	2.65	-1.87	0.43
	CO961	Connected member	-2.22	0.01	0.68	-0.74	0.14
	CO962	Main member	-17.8	-0.11	-2.62	-1.97	0.44
57	CO962	Connected member	-2.22	-0.01	-0.68	-0.74	0.14
	CO962	Connected member	2.46	0	0	0	0.01
	CO962	Connected member	-17.8	0.11	2.62	-1.97	0.44
57	CO962	Connected member	-2.22	0.01	0.68	-0.74	0.14
	CO963	Main member	-11.36	-0.11	-2	-1.48	0.43
	CO963	Connected member	-1.68	-0.01	-0.68	-0.74	0.14
	CO963	Connected member	2.45	0	0	0	0.01



::LAV/team::

Page: 159/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO963	Connected member	-11.36	0.11	2	-1.48	0.43
	CO963	Connected member	-1.68	0.01	0.68	-0.74	0.14
	CO964	Main member	-10.05	-0.1	-1.99	-1.46	0.38
57	CO964	Connected member	-2.06	-0.01	-0.68	-0.73	0.14
	CO964	Connected member	2.44	0.01	0	0	0.02
	CO964	Connected member	-10.05	0.1	1.99	-1.46	0.38
57	CO964	Connected member	-2.06	0.01	0.68	-0.73	0.14
	CO965	Main member	-27.67	-0.01	-2.83	-2.29	0.05
	CO965	Connected member	-0.58	-0.01	-0.71	-0.84	0.06
57	CO965	Connected member	2.48	0.01	-0.02	0.06	0.03
	CO965	Connected member	-25.33	0.03	3.46	-2.53	0.08
	CO965	Connected member	-3.68	0	0.67	-0.66	0.04
57	CO966	Main member	-29.68	-0.02	-3.32	-2.46	0.05
	CO966	Connected member	3.18	-0.01	-0.66	-0.63	0.07
	CO966	Connected member	2.48	0.01	0.04	-0.11	0.03
57	CO966	Connected member	-22.42	0.02	2.68	-2.12	0.08
	CO966	Connected member	-7.09	0	0.71	-0.86	0.04
	CO967	Main member	-34.95	-0.02	-4.08	-3.19	0.06
57	CO967	Connected member	0.42	-0.01	-0.69	-0.75	0.07
	CO967	Connected member	2.48	0.01	0	-0.01	0.03
	CO967	Connected member	-30.45	0.03	4.18	-3.19	0.08
57	CO967	Connected member	-5.83	0	0.69	-0.74	0.04
	CO968	Main member	-29.2	-0.01	-3.5	-2.58	0.05
	CO968	Connected member	1.61	-0.01	-0.68	-0.71	0.06
57	CO968	Connected member	2.48	0.01	0.02	-0.04	0.03
	CO968	Connected member	-24.08	0.02	3.38	-2.47	0.08
	CO968	Connected member	-5.53	0	0.7	-0.78	0.04
57	CO969	Main member	-29.06	-0.11	-4.02	-3.07	0.45
	CO969	Connected member	-2.91	-0.02	-0.69	-0.74	0.15
	CO969	Connected member	2.47	0	0	0	0.01
57	CO969	Connected member	-29.06	0.11	4.02	-3.07	0.45
	CO969	Connected member	-2.91	0.02	0.69	-0.74	0.15
	CO970	Main member	-21.36	-0.11	-3.37	-2.43	0.43
57	CO970	Connected member	-2.53	-0.01	-0.68	-0.74	0.14
	CO970	Connected member	2.46	0	0	0	0.01
	CO970	Connected member	-21.36	0.11	3.37	-2.43	0.43
57	CO970	Connected member	-2.53	0.01	0.68	-0.74	0.14
	CO971	Main member	-21.3	-0.11	-3.34	-2.53	0.44
	CO971	Connected member	-2.53	-0.02	-0.68	-0.74	0.15
57	CO971	Connected member	2.46	0	0	0	0.01
	CO971	Connected member	-21.3	0.11	3.34	-2.53	0.44
	CO971	Connected member	-2.53	0.02	0.68	-0.74	0.15
57	CO972	Main member	-14.86	-0.11	-2.71	-2.04	0.43
	CO972	Connected member	-1.98	-0.01	-0.68	-0.74	0.14
	CO972	Connected member	2.45	0	0	0	0.01
57	CO972	Connected member	-14.86	0.11	2.71	-2.04	0.43
	CO972	Connected member	-1.98	0.01	0.68	-0.74	0.14
	CO973	Main member	-13.56	-0.1	-2.7	-2.02	0.38
57	CO973	Connected member	-2.36	-0.01	-0.68	-0.73	0.15
	CO973	Connected member	2.45	0.01	0	0	0.02
	CO973	Connected member	-13.56	0.1	2.7	-2.02	0.38
57	CO973	Connected member	-2.36	0.01	0.68	-0.73	0.15
	CO974	Main member	-31.17	-0.01	-3.55	-2.85	0.05
	CO974	Connected member	-0.88	-0.01	-0.71	-0.84	0.07
57	CO974	Connected member	2.48	0.01	-0.02	0.06	0.03
	CO974	Connected member	-28.83	0.03	4.18	-3.09	0.08
	CO974	Connected member	-3.99	0	0.67	-0.66	0.04
57	CO975	Main member	-33.18	-0.02	-4.04	-3.02	0.06
	CO975	Connected member	2.88	-0.01	-0.66	-0.63	0.07
	CO975	Connected member	2.48	0.01	0.04	-0.11	0.03
57	CO975	Connected member	-25.92	0.02	3.4	-2.68	0.08
	CO975	Connected member	-7.39	0	0.71	-0.86	0.04
	CO976	Main member	-23.94	-0.02	-1.47	-1.15	0.05
57	CO976	Connected member	1.86	-0.01	-0.69	-0.76	0.07
	CO976	Connected member	2.48	0.01	0	-0.01	0.03
	CO976	Connected member	-19.44	0.02	1.57	-1.16	0.08
57	CO976	Connected member	-4.38	0	0.69	-0.75	0.04
	CO977	Main member	-18.19	-0.01	-0.89	-0.55	0.04
	CO977	Connected member	3.06	-0.01	-0.68	-0.73	0.06
57	CO977	Connected member	2.48	0.01	0.02	-0.04	0.03
	CO977	Connected member	-13.07	0.02	0.77	-0.44	0.07
	CO977	Connected member	-4.08	0	0.69	-0.79	0.04
57	CO978	Main member	-18.05	-0.12	-1.41	-1.04	0.44
	CO978	Connected member	-1.46	-0.01	-0.68	-0.75	0.14
	CO978	Connected member	2.47	0	0	0	0.01
57	CO978	Connected member	-18.05	0.12	1.41	-1.04	0.44
	CO978	Connected member	-1.46	0.01	0.68	-0.75	0.14
	CO979	Main member	-10.35	-0.11	-0.76	-0.4	0.43
57	CO979	Connected member	-1.08	-0.01	-0.68	-0.75	0.14
	CO979	Connected member	2.46	0	0	0	0
	CO979	Connected member	-10.35	0.11	0.76	-0.4	0.43
57	CO979	Connected member	-1.08	0.01	0.68	-0.75	0.14
	CO980	Main member	-10.29	-0.11	-0.73	-0.5	0.43
	CO980	Connected member	-1.08	-0.01	-0.68	-0.75	0.14
57	CO980	Connected member	2.46	0	0	0	0.01
	CO980	Connected member	-10.29	0.11	0.73	-0.5	0.43
	CO980	Connected member	-1.08	0.01	0.68	-0.75	0.14
57	CO981	Main member	-3.85	-0.11	-0.1	-0.01	0.43
	CO981	Connected member	-0.53	-0.01	-0.68	-0.75	0.14
	CO981	Connected member	2.45	0	0	0	0
57	CO981	Connected member	-3.85	0.11	0.1	-0.01	0.43
	CO981	Connected member	-0.53	0.01	0.68	-0.75	0.14
	CO982	Main member	-2.55	-0.1	-0.1	0.01	0.38
	CO982	Connected member	-0.91	-0.01	-0.68	-0.74	0.14



::LAV/team::

Page: 160/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
57	CO982	Connected member	2.45	0.01	0	0	0.02
	CO982	Connected member	-2.55	0.1	0.1	0.01	0.38
	CO982	Connected member	-0.91	0.01	0.68	-0.74	0.14
	CO983	Main member	-20.16	-0.01	-0.94	-0.82	0.05
57	CO983	Connected member	0.56	-0.01	-0.71	-0.85	0.06
	CO983	Connected member	2.48	0.01	-0.02	0.06	0.03
	CO983	Connected member	-17.82	0.03	1.57	-1.06	0.08
	CO983	Connected member	-2.54	0	0.67	-0.67	0.04
57	CO984	Main member	-22.17	-0.02	-1.43	-0.99	0.05
	CO984	Connected member	4.32	-0.01	-0.66	-0.64	0.07
	CO984	Connected member	2.48	0.01	0.04	-0.11	0.03
	CO984	Connected member	-14.91	0.02	0.79	-0.65	0.07
57	CO984	Connected member	-5.94	0	0.71	-0.87	0.04
	CO989	Main member	-16.02	0	-0.7	-0.49	0.01
	CO989	Connected member	-0.96	0	-0.68	-0.75	0.01
	CO989	Connected member	2.47	0	0	0	0.01
57	CO989	Connected member	-16.02	0	0.7	-0.49	0.01
	CO989	Connected member	-0.96	0	0.68	-0.75	0.01
	CO990	Main member	-16.02	0	-0.7	-0.49	0.01
	CO990	Connected member	-0.96	0	-0.68	-0.75	0.01
57	CO990	Connected member	2.47	0	0	0	0.01
	CO990	Connected member	-16.02	0	0.7	-0.49	0.01
	CO990	Connected member	-0.96	0	0.68	-0.75	0.01
	CO991	Main member	-27.03	-0.01	-3.31	-2.52	0.02
57	CO991	Connected member	-2.41	0	-0.69	-0.74	0.01
	CO991	Connected member	2.47	0	0	0	0.01
	CO991	Connected member	-27.03	0.01	3.31	-2.52	0.02
	CO991	Connected member	-2.41	0	0.69	-0.74	0.01
57	CO992	Main member	-27.03	-0.01	-3.31	-2.52	0.02
	CO992	Connected member	-2.41	0	-0.69	-0.74	0.01
	CO992	Connected member	2.47	0	0	0	0.01
	CO992	Connected member	-27.03	0.01	3.31	-2.52	0.02
57	CO992	Connected member	-2.41	0	0.69	-0.74	0.01
	CO993	Main member	-30.53	-0.01	-4.02	-3.08	0.02
	CO993	Connected member	-2.71	0	-0.69	-0.74	0.01
	CO993	Connected member	2.48	0	0	0	0.01
57	CO993	Connected member	-30.53	0.01	4.02	-3.08	0.02
	CO993	Connected member	-2.71	0	0.69	-0.74	0.01
	CO994	Main member	-30.53	-0.01	-4.02	-3.08	0.02
	CO994	Connected member	-2.71	0	-0.69	-0.74	0.01
57	CO994	Connected member	2.48	0	0	0	0.01
	CO994	Connected member	-30.53	0.01	4.02	-3.08	0.02
	CO994	Connected member	-2.71	0	0.69	-0.74	0.01
	CO995	Main member	-19.52	0	-1.41	-1.05	0.01
57	CO995	Connected member	-1.27	0	-0.69	-0.75	0.01
	CO995	Connected member	2.48	0	0	0	0.01
	CO995	Connected member	-19.52	0	1.41	-1.05	0.01
	CO995	Connected member	-1.27	0	0.69	-0.75	0.01
57	CO996	Main member	-19.52	0	-1.41	-1.05	0.01
	CO996	Connected member	-1.27	0	-0.69	-0.75	0.01
	CO996	Connected member	2.48	0	0	0	0.01
	CO996	Connected member	-19.52	0	1.41	-1.05	0.01
57	CO996	Connected member	-1.27	0	0.69	-0.75	0.01
	CO996	Connected member	-1.27	0	0.69	-0.75	0.01

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Basic Geometry of the Joint			
Main member			
Member			
Length	l	4.55	m
Height	h	280	mm
Thickness	t	260	mm
Cross-Sectional Area	A	728	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	256	mm
Thickness	t	10	mm
Cross-Sectional Area	A	25.6	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	5	
Number of bolt rows (z-direction)	n _{dz}	3	
Distance between bolt columns	a ₁	72	mm
Distance between bolt rows	a ₂	92	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	84	mm
Distance between fastener and edge No. 1	a _{4,1}	48	mm
Distance between fastener and edge No. 2	a _{4,2}	48	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	269.45	MN/m
Slip Modulus for ULS	K _u	138.18	MN/m
Polar moment of inertia	I _p	2401.6	cm ²
Rotation Modulus for SLS	C _{ser}	4.31	MNm/rad
Rotation Modulus for ULS	C _u	2.21	MNm/rad
Bolts			
Total number of bolts		15	
Bolt types		1	
Diameter	d	12	mm



::LAVteam::

Page: 161/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Area	A	1.13	cm ²
Length	l	260	mm
Connected Member No. 1			
Member			
Length	l	4.55	m
Height	h	280	mm
Thickness	t	260	mm
Cross-Sectional Area	A	728	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	256	mm
Thickness	t	10	mm
Cross-Sectional Area	A	25.6	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	5	
Number of bolt rows (z-direction)	n _{dz}	3	
Distance between bolt columns	a ₁	72	mm
Distance between bolt rows	a ₂	92	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	84	mm
Distance between fastener and edge No. 1	a _{4,1}	48	mm
Distance between fastener and edge No. 2	a _{4,2}	48	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	269.45	MN/m
Slip Modulus for ULS	K _u	138.18	MN/m
Polar moment of inertia	I _p	2401.6	cm ²
Rotation Modulus for SLS	C _{ser}	4.31	MNm/rad
Rotation Modulus for ULS	C _u	2.21	MNm/rad
Bolts			
Total number of bolts		15	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	260	mm
Connected Member No. 2			
Member			
Length	l	4.5	m
Height	h	220	mm
Thickness	t	220	mm
Cross-Sectional Area	A	484	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	192	mm
Thickness	t	10	mm
Cross-Sectional Area	A	19.2	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	4	
Number of bolt rows (z-direction)	n _{dz}	2	
Distance between bolt columns	a ₁	72	mm
Distance between bolt rows	a ₂	120	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	180	mm
Distance between fastener and edge No. 1	a _{4,1}	50	mm
Distance between fastener and edge No. 2	a _{4,2}	50	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	143.71	MN/m
Slip Modulus for ULS	K _u	73.7	MN/m
Polar moment of inertia	I _p	806.4	cm ²
Rotation Modulus for SLS	C _{ser}	1.45	MNm/rad
Rotation Modulus for ULS	C _u	0.74	MNm/rad
Bolts			
Total number of bolts		8	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	220	mm
Connected Member No. 3			
Member			
Length	l	6.36	m
Height	h	260	mm
Thickness	t	260	mm
Cross-Sectional Area	A	676	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	236	mm
Thickness	t	10	mm
Cross-Sectional Area	A	23.6	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	4	
Number of bolt rows (z-direction)	n _{dz}	2	
Distance between bolt columns	a ₁	72	mm
Distance between bolt rows	a ₂	164	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	84	mm
Distance between fastener and edge No. 1	a _{4,1}	48	mm
Distance between fastener and edge No. 2	a _{4,2}	48	mm
Eccentricity	e _z	0	mm



::LAV/team::

Page: 162/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	143.71	MN/m
Slip Modulus for ULS	K_u	73.7	MN/m
Polar moment of inertia	I_p	1056.32	cm ²
Rotation Modulus for SLS	C_{ser}	1.9	MNm/rad
Rotation Modulus for ULS	C_u	0.97	MNm/rad
Bolts			
Total number of bolts		8	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	260	mm
Connected Member No. 4			
Member			
Length	l	6.36	m
Height	h	260	mm
Thickness	t	260	mm
Cross-Sectional Area	A	676	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	236	mm
Thickness	t	10	mm
Cross-Sectional Area	A	23.6	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	4	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	72	mm
Distance between bolt rows	a_2	164	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	84	mm
Distance between fastener and edge No. 1	$a_{4,1}$	48	mm
Distance between fastener and edge No. 2	$a_{4,2}$	48	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	143.71	MN/m
Slip Modulus for ULS	K_u	73.7	MN/m
Polar moment of inertia	I_p	1056.32	cm ²
Rotation Modulus for SLS	C_{ser}	1.9	MNm/rad
Rotation Modulus for ULS	C_u	0.97	MNm/rad
Bolts			
Total number of bolts		8	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	260	mm

2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
Main member				
57	CO33	0.17	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
57	CO7	0.80	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
57	CO33	0.11	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
57	CO522	0.32	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
57	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
57	CO7	0.24	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
57	CO7	0.26	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
57	CO7	0.27	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
57	CO33	0.46	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
57	CO7	0.23	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
57	CO522	0.10	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
57	CO523	0.19	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
57	CO523	0.23	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
57	CO523	0.18	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
57	CO523	0.13	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
Connected Member No. 1				
57	CO11	0.14	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
57	CO7	0.82	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
57	CO523	0.11	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
57	CO7	0.20	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
57	CO7	0.28	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
57	CO7	0.24	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
57	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
57	CO7	0.24	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
57	CO33	0.46	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
57	CO319	0.14	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
57	CO40	0.05	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6



::LAVteam::

Page: 163/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
57	CO523	0.18	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
57	CO523	0.20	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
57	CO523	0.13	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
57	CO523	0.21	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
Connected Member No. 2				
57	CO276	0.08	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
57	CO8	0.04	≤ 1	6031) Bolt group - Multiple fastener connection acc. to 8.1.2 and 8.5.1.1.(4)
57	CO8	0.04	≤ 1	6032) Bolt group - Bolt force component parallel to grain acc. to 8.1.2 and 8.5.1.1.(4)
57	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
57	CO8	0.01	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
57	CO984	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
57	CO276	0.03	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
57	CO276	0.06	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
57	CO276	0.04	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
57	CO276	0.04	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
57	CO276	0.01	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
Connected Member No. 3				
57	CO624	0.10	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
57	CO624	0.35	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
57	CO7	0.02	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
57	CO212	0.04	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
57	CO212	0.03	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
57	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
57	CO7	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
57	CO1	0.02	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
57	CO624	0.06	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
57	CO624	0.08	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
57	CO624	0.08	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
57	CO624	0.05	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
57	CO624	0.05	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
57	CO35	0.02	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
Connected Member No. 4				
57	CO276	0.14	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
57	CO276	0.39	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
57	CO7	0.02	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
57	CO312	0.04	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
57	CO312	0.04	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
57	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
57	CO7	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
57	CO312	0.03	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
57	CO276	0.07	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
57	CO276	0.07	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
57	CO210	0.01	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3

1.1 GENERAL DATA

JOINTS CA5

Settings for		Details
Design Standard	National Annex	EN 1995-1-1:2004-11
Type of connection	Input Data	CEN
Comment		JOINTS - Steel to timber - Bolts
		Import from model

JOINTS
CA5
Design of Joints



::LAVteam::

Page: 164/337

Sheet: 1

JOINTS

Project: Examples

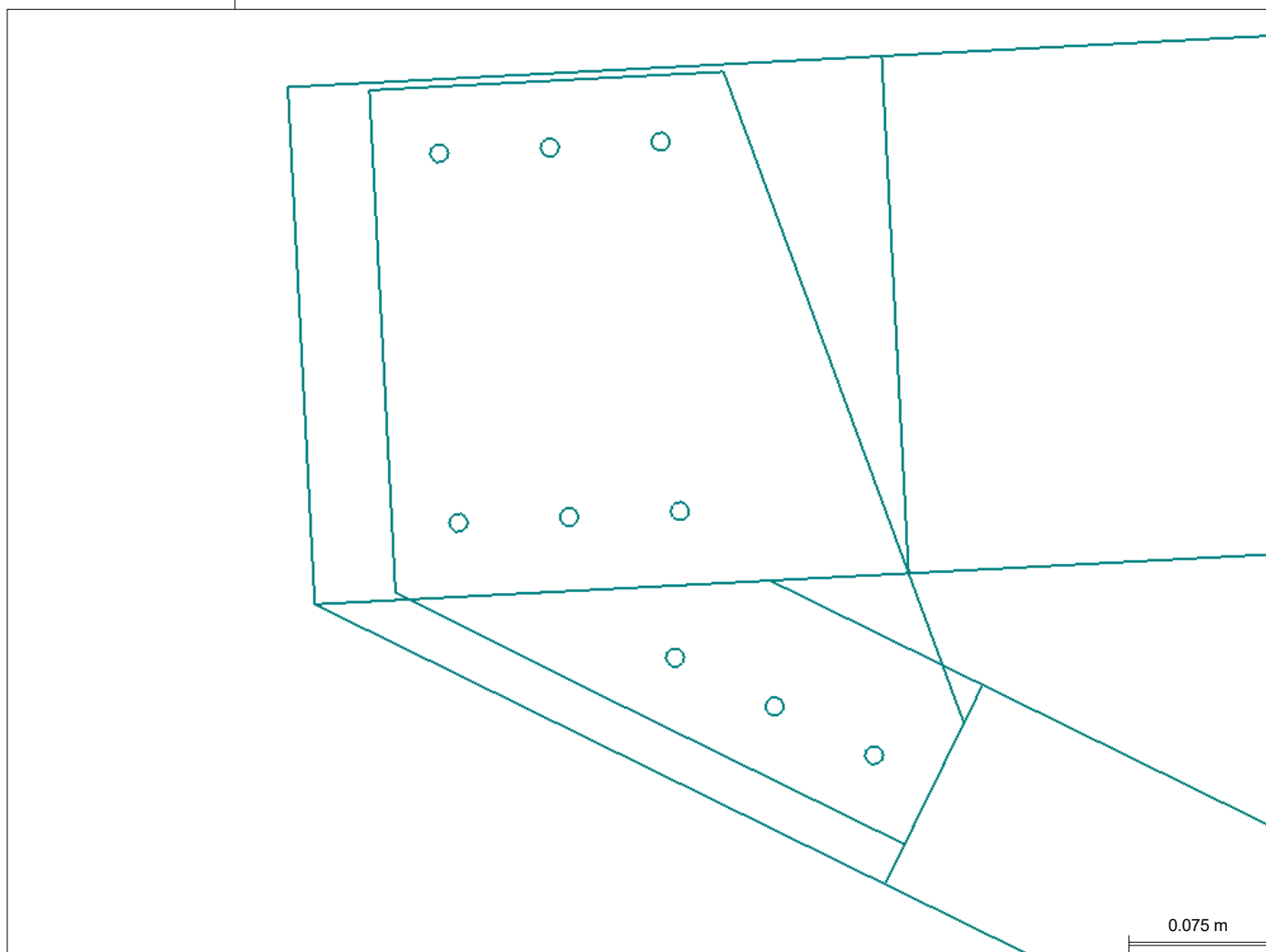
Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

VIEW OF CONNECTION



1.2 NODES AND MEMBERS

Node No.	Member No.	Member Type	Cross-section	Material	Angle [°]
6	6	Connected member	T-Rectangle 200/120	Glulam Timber GL24h	29.09
	8	Main member	T-Rectangle 260/280	Glulam Timber GL24h	

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	LC1	Connected member	-2.23	0	-0.2	-0.12	0.03
	LC1	Main member	2.07	0.01	0.49	0.12	0.04
6	CO1	Connected member	-3.02	0	-0.27	-0.17	0.05
	CO1	Main member	2.8	0.02	0.66	0.17	0.06
6	LC2	Connected member	-1.99	0	0.02	0.06	0.01
	LC2	Main member	1.73	0	0.98	-0.05	0.01
6	CO2	Connected member	-5.7	0	-0.25	-0.09	0.06
	CO2	Main member	5.14	0.02	1.98	0.1	0.07
6	LC3	Connected member	-0.54	0	0.01	0.02	0
	LC3	Main member	0.47	0	0.26	-0.01	0
6	CO3	Connected member	-6.43	0	-0.24	-0.07	0.06
	CO3	Main member	5.77	0.02	2.33	0.08	0.08
6	LC4	Connected member	-3.6	0	0.03	0.11	0.02
	LC4	Main member	3.13	0.01	1.77	-0.09	0.02
6	CO4	Connected member	-3.74	0	-0.26	-0.15	0.05
	CO4	Main member	3.43	0.02	1.02	0.15	0.06
6	LC5	Connected member	-1.8	0	0.02	0.05	0.01
	LC5	Main member	1.56	0	0.88	-0.05	0.01
6	CO5	Connected member	-8.41	0	-0.22	-0.02	0.07
	CO5	Main member	7.5	0.02	3.3	0.04	0.08
6	LC6	Connected member	5.64	-0.03	-0.03	-0.09	-0.11
	LC6	Main member	-5.03	-0.04	-1.34	0.08	-0.21



::LAV/team::

Page: 165/337

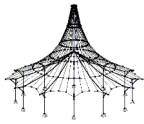
Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO6	Connected member	-11.09	-0.01	-0.21	0.06	0.08
	CO6	Main member	9.84	0.03	4.61	-0.03	0.1
6	LC7	Connected member	16.23	0.02	-0.1	-0.31	-0.51
	LC7	Main member	-14.08	-0.08	-4.09	0.29	-0.37
6	CO7	Connected member	-11.82	-0.01	-0.2	0.08	0.08
	CO7	Main member	10.47	0.03	4.97	-0.04	0.1
6	LC8	Connected member	9.13	-0.02	-0.04	-0.11	-0.09
	LC8	Main member	-8.19	-0.05	-1.95	0.11	-0.39
6	CO8	Connected member	-9.14	-0.01	-0.22	0	0.07
	CO8	Main member	8.13	0.02	3.66	0.02	0.08
6	LC9	Connected member	9.7	-0.05	-0.05	-0.15	-0.13
	LC9	Main member	-8.29	0.09	-1.75	0.15	-0.08
6	CO9	Connected member	-12.44	-0.01	-0.2	0.09	0.08
	CO9	Main member	11.01	0.03	5.27	-0.06	0.1
6	CO10	Connected member	-12.44	-0.01	-0.2	0.09	0.08
	CO10	Main member	11.01	0.03	5.27	-0.06	0.09
6	CO11	Connected member	-13.17	-0.01	-0.19	0.11	0.09
	CO11	Main member	11.65	0.03	5.63	-0.08	0.11
6	CO12	Connected member	-13.17	-0.01	-0.19	0.11	0.09
	CO12	Main member	11.64	0.03	5.63	-0.08	0.1
6	LC13	Connected member	-1.8	0	0.02	0.05	0.01
	LC13	Main member	1.56	0	0.88	-0.05	0
6	CO13	Connected member	-10.49	-0.01	-0.21	0.04	0.08
	CO13	Main member	9.31	0.03	4.32	-0.01	0.09
6	LC14	Connected member	4.88	0.02	-0.02	-0.05	-0.07
	LC14	Main member	-4.22	0.03	-1.02	0.05	-0.18
6	CO14	Connected member	-10.49	-0.01	-0.21	0.04	0.08
	CO14	Main member	9.3	0.02	4.32	-0.01	0.08
6	LC15	Connected member	15.14	-0.06	-0.06	-0.16	-0.17
	LC15	Main member	-12.93	0.1	-2.76	0.15	-0.08
6	CO15	Connected member	-7.36	-0.04	-0.21	0.02	-0.01
	CO15	Main member	6.47	0	4.07	0.01	-0.09
6	LC16	Connected member	15.01	-0.06	-0.06	-0.15	-0.24
	LC16	Main member	-12.83	0.05	-2.68	0.15	-0.14
6	CO16	Connected member	2.17	0.01	-0.27	-0.17	-0.39
	CO16	Main member	-1.68	-0.03	1.61	0.18	-0.24
6	LC17	Connected member	16.42	-0.01	-0.1	-0.3	-0.32
	LC17	Main member	-14.27	-0.04	-4.61	0.28	-0.25
6	CO17	Connected member	-4.23	-0.03	-0.22	0	0
	CO17	Main member	3.63	0	3.53	0.02	-0.26
6	LC18	Connected member	5.64	-0.03	-0.03	-0.09	-0.11
	LC18	Main member	-5.06	-0.06	-1.34	0.08	-0.27
6	CO18	Connected member	-3.71	-0.05	-0.23	-0.03	-0.03
	CO18	Main member	3.54	0.13	3.71	0.06	0.02
6	CO19	Connected member	-8.05	0.01	-0.21	0.05	0.02
	CO19	Main member	7.21	0.07	4.36	-0.02	-0.07
6	CO20	Connected member	1.18	-0.06	-0.23	-0.04	-0.08
	CO20	Main member	-0.64	0.13	2.81	0.06	0.02
6	CO21	Connected member	1.07	-0.06	-0.23	-0.03	-0.14
	CO21	Main member	-0.54	0.09	2.88	0.06	-0.03
6	CO22	Connected member	2.34	-0.02	-0.27	-0.16	-0.21
	CO22	Main member	-1.84	0	1.14	0.17	-0.13
6	CO23	Connected member	-7.36	-0.04	-0.21	0.02	-0.02
	CO23	Main member	6.45	-0.02	4.08	0.01	-0.14
6	CO24	Connected member	-7.36	-0.04	-0.21	0.02	-0.01
	CO24	Main member	6.47	0	4.07	0.01	-0.1
6	CO25	Connected member	2.17	0.01	-0.27	-0.17	-0.39
	CO25	Main member	-1.68	-0.04	1.61	0.18	-0.25
6	CO26	Connected member	-4.22	-0.03	-0.22	0	0
	CO26	Main member	3.63	0	3.53	0.02	-0.27
6	CO27	Connected member	-3.71	-0.05	-0.23	-0.03	-0.03
	CO27	Main member	3.53	0.12	3.71	0.06	0.01
6	CO28	Connected member	-8.05	0.01	-0.21	0.05	0.02
	CO28	Main member	7.2	0.07	4.36	-0.02	-0.08
6	CO29	Connected member	1.18	-0.06	-0.23	-0.04	-0.08
	CO29	Main member	-0.64	0.13	2.8	0.06	0.01
6	CO30	Connected member	1.07	-0.06	-0.23	-0.03	-0.14
	CO30	Main member	-0.55	0.08	2.88	0.06	-0.04
6	CO31	Connected member	2.34	-0.02	-0.27	-0.16	-0.21
	CO31	Main member	-1.85	0	1.14	0.17	-0.14
6	CO32	Connected member	-7.36	-0.04	-0.21	0.02	-0.02
	CO32	Main member	6.44	-0.02	4.08	0.01	-0.15
6	CO33	Connected member	-8.09	-0.04	-0.21	0.04	-0.01
	CO33	Main member	7.11	0	4.43	-0.01	-0.08
6	CO34	Connected member	1.44	0.01	-0.26	-0.14	-0.38
	CO34	Main member	-1.04	-0.03	1.97	0.16	-0.24
6	CO35	Connected member	-4.95	-0.03	-0.21	0.02	0
	CO35	Main member	4.27	0	3.89	0.01	-0.26
6	CO36	Connected member	-4.44	-0.05	-0.22	-0.01	-0.03
	CO36	Main member	4.17	0.13	4.07	0.04	0.02
6	CO37	Connected member	-8.78	0.01	-0.2	0.07	0.02
	CO37	Main member	7.84	0.07	4.72	-0.04	-0.06
6	CO38	Connected member	0.45	-0.06	-0.22	-0.02	-0.08
	CO38	Main member	-0.01	0.14	3.16	0.05	0.02
6	CO39	Connected member	0.34	-0.06	-0.22	-0.01	-0.14
	CO39	Main member	0.09	0.09	3.24	0.04	-0.03
6	CO40	Connected member	1.61	-0.02	-0.26	-0.14	-0.21
	CO40	Main member	-1.21	0	1.5	0.15	-0.12
6	CO41	Connected member	-8.09	-0.04	-0.21	0.04	-0.01
	CO41	Main member	7.08	-0.02	4.43	-0.01	-0.14
6	CO42	Connected member	-8.09	-0.04	-0.21	0.04	-0.01
	CO42	Main member	7.1	0	4.43	-0.01	-0.09
6	CO43	Connected member	1.44	0.01	-0.26	-0.14	-0.38
	CO43	Main member	-1.05	-0.03	1.97	0.16	-0.25



::LAV/team::

Page: 166/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO44	Connected member	-4.95	-0.03	-0.21	0.02	0
	CO44	Main member	4.26	0	3.89	0.01	-0.26
6	CO45	Connected member	-4.44	-0.05	-0.22	-0.01	-0.03
	CO45	Main member	4.17	0.13	4.07	0.04	0.01
6	CO46	Connected member	-8.78	0.01	-0.2	0.07	0.02
	CO46	Main member	7.84	0.07	4.71	-0.04	-0.07
6	CO47	Connected member	0.46	-0.06	-0.22	-0.02	-0.08
	CO47	Main member	-0.01	0.13	3.16	0.05	0.01
6	CO48	Connected member	0.34	-0.06	-0.22	-0.01	-0.14
	CO48	Main member	0.09	0.09	3.24	0.04	-0.04
6	CO49	Connected member	1.61	-0.02	-0.26	-0.14	-0.21
	CO49	Main member	-1.21	0	1.5	0.15	-0.13
6	CO50	Connected member	-8.09	-0.04	-0.21	0.04	-0.01
	CO50	Main member	7.08	-0.02	4.43	-0.01	-0.14
6	CO51	Connected member	-5.41	-0.04	-0.23	-0.03	-0.02
	CO51	Main member	4.77	0	3.12	0.05	-0.1
6	CO52	Connected member	4.12	0.02	-0.29	-0.22	-0.4
	CO52	Main member	-3.38	-0.04	0.65	0.23	-0.26
6	CO53	Connected member	-2.27	-0.02	-0.23	-0.05	-0.01
	CO53	Main member	1.93	0	2.57	0.07	-0.28
6	CO54	Connected member	-1.76	-0.05	-0.24	-0.08	-0.04
	CO54	Main member	1.83	0.12	2.76	0.11	0
6	CO55	Connected member	-6.1	0.01	-0.22	0	0.01
	CO55	Main member	5.5	0.06	3.4	0.02	-0.08
6	CO56	Connected member	3.14	-0.06	-0.25	-0.09	-0.1
	CO56	Main member	-2.34	0.13	1.85	0.11	0
6	CO57	Connected member	3.02	-0.06	-0.24	-0.08	-0.16
	CO57	Main member	-2.25	0.08	1.92	0.11	-0.05
6	CO58	Connected member	4.29	-0.02	-0.29	-0.21	-0.22
	CO58	Main member	-3.55	-0.01	0.18	0.22	-0.14
6	CO59	Connected member	-5.4	-0.04	-0.23	-0.03	-0.02
	CO59	Main member	4.74	-0.02	3.12	0.06	-0.15
6	CO60	Connected member	-5.41	-0.04	-0.23	-0.03	-0.02
	CO60	Main member	4.76	-0.01	3.12	0.06	-0.11
6	CO61	Connected member	4.13	0.02	-0.29	-0.22	-0.4
	CO61	Main member	-3.39	-0.05	0.65	0.23	-0.27
6	CO62	Connected member	-2.27	-0.02	-0.23	-0.05	-0.01
	CO62	Main member	1.93	-0.01	2.57	0.07	-0.28
6	CO63	Connected member	-1.75	-0.05	-0.24	-0.08	-0.04
	CO63	Main member	1.83	0.12	2.76	0.11	-0.01
6	CO64	Connected member	-6.1	0.01	-0.22	0	0.01
	CO64	Main member	5.5	0.06	3.4	0.03	-0.09
6	CO65	Connected member	3.14	-0.06	-0.25	-0.09	-0.1
	CO65	Main member	-2.35	0.12	1.85	0.11	-0.01
6	CO66	Connected member	3.02	-0.06	-0.24	-0.08	-0.16
	CO66	Main member	-2.25	0.08	1.92	0.11	-0.06
6	CO67	Connected member	4.29	-0.02	-0.29	-0.21	-0.22
	CO67	Main member	-3.55	-0.01	0.18	0.22	-0.15
6	CO68	Connected member	-5.4	-0.04	-0.23	-0.03	-0.02
	CO68	Main member	4.74	-0.03	3.12	0.06	-0.16
6	CO69	Connected member	-6.02	-0.04	-0.22	-0.02	-0.02
	CO69	Main member	5.3	0	3.41	0.04	-0.09
6	CO70	Connected member	3.52	0.02	-0.28	-0.2	-0.39
	CO70	Main member	-2.85	-0.04	0.95	0.22	-0.25
6	CO71	Connected member	-2.88	-0.02	-0.23	-0.03	-0.01
	CO71	Main member	2.46	0	2.87	0.06	-0.27
6	CO72	Connected member	-2.36	-0.05	-0.24	-0.06	-0.04
	CO72	Main member	2.36	0.12	3.05	0.09	0.01
6	CO73	Connected member	-6.7	0.01	-0.22	0.01	0.01
	CO73	Main member	6.03	0.07	3.7	0.01	-0.07
6	CO74	Connected member	2.53	-0.06	-0.24	-0.07	-0.09
	CO74	Main member	-1.81	0.13	2.14	0.1	0.01
6	CO75	Connected member	2.42	-0.06	-0.24	-0.07	-0.15
	CO75	Main member	-1.72	0.08	2.22	0.09	-0.04
6	CO76	Connected member	3.68	-0.02	-0.28	-0.2	-0.22
	CO76	Main member	-3.02	0	0.48	0.21	-0.13
6	CO77	Connected member	-6.01	-0.04	-0.22	-0.02	-0.02
	CO77	Main member	5.27	-0.02	3.42	0.04	-0.15
6	CO78	Connected member	-6.74	-0.04	-0.22	0	-0.02
	CO78	Main member	5.93	0	3.77	0.02	-0.09
6	CO79	Connected member	2.79	0.02	-0.28	-0.18	-0.39
	CO79	Main member	-2.22	-0.04	1.31	0.2	-0.25
6	CO80	Connected member	-3.61	-0.02	-0.22	-0.01	-0.01
	CO80	Main member	3.09	0	3.23	0.04	-0.26
6	CO81	Connected member	-3.09	-0.05	-0.23	-0.04	-0.04
	CO81	Main member	3	0.13	3.41	0.08	0.01
6	CO82	Connected member	-7.43	0.01	-0.21	0.03	0.01
	CO82	Main member	6.67	0.07	4.06	-0.01	-0.07
6	CO83	Connected member	1.8	-0.06	-0.23	-0.05	-0.09
	CO83	Main member	-1.18	0.13	2.5	0.08	0.01
6	CO84	Connected member	1.69	-0.06	-0.23	-0.05	-0.15
	CO84	Main member	-1.08	0.08	2.58	0.07	-0.04
6	CO85	Connected member	2.96	-0.02	-0.27	-0.17	-0.21
	CO85	Main member	-2.38	0	0.84	0.19	-0.13
6	CO86	Connected member	-6.74	-0.04	-0.22	0	-0.02
	CO86	Main member	5.91	-0.02	3.77	0.02	-0.14
6	CO87	Connected member	-4.06	-0.03	-0.24	-0.07	-0.03
	CO87	Main member	3.6	-0.01	2.46	0.09	-0.11
6	CO88	Connected member	5.47	0.02	-0.3	-0.26	-0.41
	CO88	Main member	-4.55	-0.05	-0.01	0.27	-0.27
6	CO89	Connected member	-0.92	-0.02	-0.25	-0.09	-0.02
	CO89	Main member	0.76	-0.01	1.91	0.11	-0.28
6	CO90	Connected member	-0.41	-0.05	-0.26	-0.12	-0.05
	CO90	Main member	0.66	0.12	2.09	0.14	-0.01



::LAV/team::

Page: 167/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO91	Connected member	-4.75	0.01	-0.23	-0.04	0
	CO91	Main member	4.33	0.06	2.74	0.06	-0.09
6	CO92	Connected member	4.49	-0.05	-0.26	-0.13	-0.1
	CO92	Main member	-3.52	0.12	1.18	0.15	-0.01
6	CO93	Connected member	4.37	-0.05	-0.26	-0.12	-0.16
	CO93	Main member	-3.42	0.07	1.26	0.14	-0.06
6	CO94	Connected member	5.64	-0.01	-0.3	-0.25	-0.23
	CO94	Main member	-4.72	-0.01	-0.48	0.26	-0.15
6	CO95	Connected member	-4.05	-0.04	-0.24	-0.07	-0.03
	CO95	Main member	3.57	-0.03	2.46	0.09	-0.16
6	CO96	Connected member	-9.76	-0.01	-0.22	0.02	0.07
	CO96	Main member	8.67	0.03	3.96	0	0.09
6	CO97	Connected member	-9.76	-0.01	-0.22	0.02	0.07
	CO97	Main member	8.67	0.02	3.96	0	0.08
6	CO98	Connected member	-4.68	-0.04	-0.23	-0.05	-0.03
	CO98	Main member	4.14	-0.01	2.76	0.07	-0.1
6	CO99	Connected member	4.85	0.02	-0.3	-0.24	-0.4
	CO99	Main member	-4.01	-0.04	0.29	0.25	-0.26
6	CO100	Connected member	-1.54	-0.02	-0.24	-0.07	-0.02
	CO100	Main member	1.3	-0.01	2.22	0.09	-0.28
6	CO101	Connected member	-1.03	-0.05	-0.25	-0.1	-0.05
	CO101	Main member	1.2	0.12	2.4	0.13	0
6	CO102	Connected member	-5.37	0.01	-0.23	-0.02	0.01
	CO102	Main member	4.87	0.06	3.05	0.04	-0.08
6	CO103	Connected member	3.87	-0.06	-0.25	-0.11	-0.1
	CO103	Main member	-2.98	0.12	1.49	0.13	0
6	CO104	Connected member	3.75	-0.06	-0.25	-0.1	-0.16
	CO104	Main member	-2.88	0.08	1.56	0.12	-0.05
6	CO105	Connected member	5.02	-0.01	-0.29	-0.24	-0.22
	CO105	Main member	-4.18	-0.01	-0.17	0.24	-0.15
6	CO106	Connected member	-4.68	-0.04	-0.23	-0.05	-0.03
	CO106	Main member	4.11	-0.03	2.76	0.07	-0.16
6	CO107	Connected member	-4.68	-0.04	-0.23	-0.05	-0.03
	CO107	Main member	4.13	-0.01	2.76	0.07	-0.11
6	CO108	Connected member	4.85	0.02	-0.3	-0.24	-0.4
	CO108	Main member	-4.02	-0.05	0.29	0.25	-0.27
6	CO109	Connected member	-1.54	-0.02	-0.24	-0.07	-0.02
	CO109	Main member	1.29	-0.01	2.22	0.09	-0.29
6	CO110	Connected member	-1.03	-0.05	-0.25	-0.1	-0.05
	CO110	Main member	1.2	0.11	2.4	0.13	-0.01
6	CO111	Connected member	-5.37	0.01	-0.23	-0.02	0.01
	CO111	Main member	4.86	0.06	3.05	0.04	-0.09
6	CO112	Connected member	3.87	-0.06	-0.25	-0.11	-0.1
	CO112	Main member	-2.98	0.12	1.49	0.13	-0.01
6	CO113	Connected member	3.75	-0.06	-0.25	-0.1	-0.16
	CO113	Main member	-2.89	0.07	1.56	0.12	-0.06
6	CO114	Connected member	5.02	-0.01	-0.29	-0.24	-0.23
	CO114	Main member	-4.18	-0.01	-0.17	0.24	-0.15
6	CO115	Connected member	-4.67	-0.04	-0.23	-0.05	-0.03
	CO115	Main member	4.11	-0.03	2.76	0.07	-0.17
6	CO116	Connected member	-3.33	-0.03	-0.24	-0.09	-0.03
	CO116	Main member	2.96	-0.01	2.1	0.11	-0.11
6	CO117	Connected member	6.2	0.03	-0.31	-0.28	-0.41
	CO117	Main member	-5.19	-0.05	-0.37	0.28	-0.27
6	CO118	Connected member	-0.19	-0.02	-0.25	-0.11	-0.02
	CO118	Main member	0.12	-0.01	1.56	0.12	-0.29
6	CO119	Connected member	0.32	-0.05	-0.26	-0.14	-0.06
	CO119	Main member	0.03	0.11	1.74	0.16	-0.01
6	CO120	Connected member	-4.02	0.01	-0.24	-0.06	0
	CO120	Main member	3.69	0.06	2.39	0.08	-0.09
6	CO121	Connected member	5.22	-0.05	-0.27	-0.15	-0.11
	CO121	Main member	-4.15	0.12	0.83	0.16	-0.01
6	CO122	Connected member	5.1	-0.05	-0.26	-0.14	-0.17
	CO122	Main member	-4.06	0.07	0.9	0.16	-0.06
6	CO123	Connected member	6.37	-0.01	-0.31	-0.27	-0.23
	CO123	Main member	-5.35	-0.01	-0.84	0.28	-0.15
6	CO124	Connected member	-3.33	-0.03	-0.25	-0.09	-0.03
	CO124	Main member	2.94	-0.03	2.1	0.11	-0.16
6	CO125	Connected member	-5.71	0	-0.25	-0.09	0.06
	CO125	Main member	5.15	0.02	1.98	0.1	0.07
6	CO126	Connected member	-5.71	0	-0.25	-0.09	0.06
	CO126	Main member	5.14	0.01	1.98	0.1	0.05
6	CO127	Connected member	-8.4	0	-0.22	-0.02	0.07
	CO127	Main member	7.49	0.03	3.3	0.04	0.08
6	CO128	Connected member	-8.39	0	-0.22	-0.02	0.07
	CO128	Main member	7.48	0.02	3.3	0.04	0.07
6	CO129	Connected member	-9.13	-0.01	-0.22	0	0.07
	CO129	Main member	8.12	0.03	3.65	0.02	0.09
6	CO130	Connected member	-9.12	-0.01	-0.22	0	0.07
	CO130	Main member	8.11	0.02	3.65	0.02	0.07
6	CO131	Connected member	-6.44	0	-0.24	-0.07	0.06
	CO131	Main member	5.78	0.02	2.34	0.08	0.07
6	CO132	Connected member	-6.44	0	-0.24	-0.07	0.06
	CO132	Main member	5.77	0.02	2.34	0.08	0.06
6	CO133	Connected member	-3.32	-0.03	-0.24	-0.09	-0.03
	CO133	Main member	2.95	-0.01	2.09	0.11	-0.11
6	CO134	Connected member	6.21	0.03	-0.31	-0.28	-0.41
	CO134	Main member	-5.2	-0.05	-0.38	0.28	-0.27
6	CO135	Connected member	-0.18	-0.02	-0.25	-0.11	-0.02
	CO135	Main member	0.11	-0.01	1.55	0.12	-0.28
6	CO136	Connected member	0.34	-0.04	-0.26	-0.14	-0.06
	CO136	Main member	0.02	0.12	1.73	0.16	-0.01
6	CO137	Connected member	-4.01	0.01	-0.24	-0.06	0
	CO137	Main member	3.68	0.06	2.38	0.08	-0.09



::LAV/team::

Page: 168/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO138	Connected member	5.23	-0.05	-0.27	-0.15	-0.11
	CO138	Main member	-4.16	0.12	0.82	0.16	-0.01
6	CO139	Connected member	5.11	-0.05	-0.26	-0.14	-0.17
	CO139	Main member	-4.07	0.07	0.9	0.16	-0.06
6	CO140	Connected member	6.38	-0.01	-0.31	-0.28	-0.23
	CO140	Main member	-5.36	-0.01	-0.84	0.28	-0.15
6	CO141	Connected member	-3.31	-0.03	-0.25	-0.09	-0.03
	CO141	Main member	2.93	-0.03	2.1	0.11	-0.16
6	CO142	Connected member	-3.31	-0.03	-0.24	-0.09	-0.03
	CO142	Main member	2.94	-0.01	2.09	0.11	-0.12
6	CO143	Connected member	6.22	0.03	-0.31	-0.28	-0.41
	CO143	Main member	-5.21	-0.05	-0.38	0.28	-0.28
6	CO144	Connected member	-0.18	-0.02	-0.25	-0.11	-0.02
	CO144	Main member	0.1	-0.01	1.55	0.12	-0.3
6	CO145	Connected member	0.34	-0.05	-0.26	-0.14	-0.06
	CO145	Main member	0.01	0.11	1.73	0.16	-0.02
6	CO146	Connected member	-4	0.01	-0.24	-0.06	0
	CO146	Main member	3.67	0.06	2.38	0.08	-0.1
6	CO147	Connected member	5.23	-0.05	-0.27	-0.15	-0.11
	CO147	Main member	-4.17	0.11	0.82	0.16	-0.02
6	CO148	Connected member	5.12	-0.05	-0.27	-0.14	-0.17
	CO148	Main member	-4.07	0.07	0.9	0.16	-0.07
6	CO149	Connected member	6.38	-0.01	-0.31	-0.28	-0.23
	CO149	Main member	-5.37	-0.02	-0.84	0.28	-0.17
6	CO150	Connected member	-3.31	-0.03	-0.25	-0.09	-0.03
	CO150	Main member	2.92	-0.03	2.09	0.11	-0.18
6	CO151	Connected member	-4.05	-0.03	-0.24	-0.07	-0.03
	CO151	Main member	3.58	0	2.45	0.09	-0.1
6	CO152	Connected member	5.49	0.02	-0.3	-0.26	-0.41
	CO152	Main member	-4.56	-0.05	-0.02	0.27	-0.26
6	CO153	Connected member	-0.91	-0.02	-0.25	-0.09	-0.02
	CO153	Main member	0.75	-0.01	1.91	0.11	-0.28
6	CO154	Connected member	-0.39	-0.05	-0.26	-0.12	-0.05
	CO154	Main member	0.65	0.12	2.09	0.14	0
6	CO155	Connected member	-4.73	0.01	-0.23	-0.04	0
	CO155	Main member	4.32	0.06	2.74	0.06	-0.08
6	CO156	Connected member	4.5	-0.05	-0.26	-0.13	-0.1
	CO156	Main member	-3.53	0.12	1.18	0.15	0
6	CO157	Connected member	4.39	-0.05	-0.26	-0.12	-0.16
	CO157	Main member	-3.43	0.08	1.25	0.14	-0.05
6	CO158	Connected member	5.65	-0.01	-0.3	-0.25	-0.23
	CO158	Main member	-4.73	-0.01	-0.49	0.26	-0.15
6	CO159	Connected member	-4.04	-0.04	-0.24	-0.07	-0.03
	CO159	Main member	3.56	-0.03	2.45	0.09	-0.16
6	CO160	Connected member	-4.04	-0.03	-0.24	-0.07	-0.03
	CO160	Main member	3.58	-0.01	2.45	0.09	-0.12
6	CO161	Connected member	5.49	0.02	-0.3	-0.26	-0.41
	CO161	Main member	-4.57	-0.05	-0.02	0.27	-0.28
6	CO162	Connected member	-0.91	-0.02	-0.25	-0.09	-0.02
	CO162	Main member	0.74	-0.01	1.91	0.11	-0.29
6	CO163	Connected member	-0.39	-0.05	-0.26	-0.12	-0.05
	CO163	Main member	0.64	0.11	2.09	0.14	-0.02
6	CO164	Connected member	-4.73	0.01	-0.23	-0.04	0
	CO164	Main member	4.31	0.06	2.74	0.06	-0.1
6	CO165	Connected member	4.5	-0.05	-0.26	-0.13	-0.1
	CO165	Main member	-3.54	0.12	1.18	0.15	-0.02
6	CO166	Connected member	4.39	-0.05	-0.26	-0.12	-0.16
	CO166	Main member	-3.44	0.07	1.25	0.14	-0.07
6	CO167	Connected member	5.66	-0.01	-0.3	-0.25	-0.23
	CO167	Main member	-4.74	-0.02	-0.49	0.26	-0.16
6	CO168	Connected member	-4.04	-0.04	-0.24	-0.07	-0.03
	CO168	Main member	3.55	-0.03	2.45	0.09	-0.17
6	CO169	Connected member	-1.36	-0.03	-0.26	-0.15	-0.04
	CO169	Main member	1.25	-0.01	1.14	0.15	-0.12
6	CO170	Connected member	8.17	0.03	-0.33	-0.34	-0.42
	CO170	Main member	-6.9	-0.06	-1.34	0.34	-0.28
6	CO171	Connected member	1.78	-0.02	-0.27	-0.17	-0.03
	CO171	Main member	-1.59	-0.01	0.59	0.17	-0.3
6	CO172	Connected member	2.29	-0.04	-0.28	-0.2	-0.07
	CO172	Main member	-1.69	0.11	0.77	0.21	-0.02
6	CO173	Connected member	-2.05	0.01	-0.25	-0.12	-0.01
	CO173	Main member	1.98	0.06	1.42	0.12	-0.1
6	CO174	Connected member	7.18	-0.05	-0.29	-0.21	-0.12
	CO174	Main member	-5.86	0.11	-0.14	0.21	-0.02
6	CO175	Connected member	7.07	-0.05	-0.28	-0.2	-0.18
	CO175	Main member	-5.77	0.06	-0.07	0.21	-0.07
6	CO176	Connected member	8.34	-0.01	-0.33	-0.33	-0.24
	CO176	Main member	-7.06	-0.02	-1.81	0.33	-0.16
6	CO177	Connected member	-1.36	-0.03	-0.26	-0.15	-0.04
	CO177	Main member	1.22	-0.03	1.14	0.16	-0.17
6	CO178	Connected member	-1.36	-0.03	-0.26	-0.15	-0.04
	CO178	Main member	1.24	-0.02	1.13	0.15	-0.14
6	CO179	Connected member	8.17	0.03	-0.33	-0.34	-0.42
	CO179	Main member	-6.91	-0.06	-1.34	0.34	-0.3
6	CO180	Connected member	1.78	-0.02	-0.27	-0.17	-0.03
	CO180	Main member	-1.6	-0.02	0.59	0.17	-0.31
6	CO181	Connected member	2.29	-0.04	-0.28	-0.2	-0.07
	CO181	Main member	-1.7	0.1	0.77	0.21	-0.04
6	CO182	Connected member	-2.05	0.01	-0.25	-0.12	-0.01
	CO182	Main member	1.97	0.05	1.42	0.12	-0.12
6	CO183	Connected member	7.19	-0.05	-0.29	-0.21	-0.12
	CO183	Main member	-5.87	0.11	-0.14	0.21	-0.04
6	CO184	Connected member	7.07	-0.05	-0.28	-0.2	-0.18
	CO184	Main member	-5.78	0.06	-0.07	0.21	-0.09



::LAV/team::

Page: 169/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO185	Connected member	8.34	-0.01	-0.33	-0.33	-0.24
	CO185	Main member	-7.07	-0.02	-1.81	0.33	-0.18
6	CO186	Connected member	-1.35	-0.03	-0.26	-0.15	-0.04
	CO186	Main member	1.21	-0.04	1.14	0.16	-0.19
6	CO187	Connected member	-0.63	-0.03	-0.27	-0.17	-0.05
	CO187	Main member	0.61	-0.01	0.78	0.17	-0.12
6	CO188	Connected member	8.9	0.03	-0.34	-0.36	-0.43
	CO188	Main member	-7.53	-0.06	-1.7	0.35	-0.28
6	CO189	Connected member	2.5	-0.02	-0.28	-0.19	-0.04
	CO189	Main member	-2.22	-0.02	0.23	0.19	-0.3
6	CO190	Connected member	3.02	-0.04	-0.29	-0.22	-0.07
	CO190	Main member	-2.32	0.11	0.41	0.23	-0.03
6	CO191	Connected member	-1.32	0.01	-0.26	-0.14	-0.01
	CO191	Main member	1.35	0.06	1.07	0.14	-0.1
6	CO192	Connected member	7.91	-0.05	-0.29	-0.23	-0.12
	CO192	Main member	-6.5	0.11	-0.5	0.23	-0.03
6	CO193	Connected member	7.8	-0.05	-0.29	-0.22	-0.19
	CO193	Main member	-6.4	0.06	-0.42	0.23	-0.08
6	CO194	Connected member	9.07	0	-0.34	-0.36	-0.25
	CO194	Main member	-7.69	-0.02	-2.16	0.35	-0.17
6	CO195	Connected member	-0.63	-0.03	-0.27	-0.17	-0.05
	CO195	Main member	0.59	-0.03	0.78	0.17	-0.18
6	CO196	Connected member	-0.63	-0.03	-0.27	-0.17	-0.05
	CO196	Main member	0.61	-0.02	0.78	0.17	-0.14
6	CO197	Connected member	8.9	0.03	-0.34	-0.36	-0.43
	CO197	Main member	-7.54	-0.06	-1.7	0.35	-0.3
6	CO198	Connected member	2.51	-0.02	-0.28	-0.19	-0.04
	CO198	Main member	-2.23	-0.02	0.23	0.19	-0.32
6	CO199	Connected member	3.02	-0.04	-0.29	-0.22	-0.07
	CO199	Main member	-2.33	0.1	0.41	0.23	-0.04
6	CO200	Connected member	-1.32	0.01	-0.26	-0.14	-0.01
	CO200	Main member	1.34	0.05	1.07	0.14	-0.12
6	CO201	Connected member	7.92	-0.05	-0.29	-0.23	-0.12
	CO201	Main member	-6.51	0.1	-0.5	0.23	-0.04
6	CO202	Connected member	7.8	-0.05	-0.29	-0.22	-0.19
	CO202	Main member	-6.41	0.06	-0.42	0.23	-0.09
6	CO203	Connected member	9.07	0	-0.34	-0.36	-0.25
	CO203	Main member	-7.7	-0.03	-2.16	0.35	-0.18
6	CO204	Connected member	-0.63	-0.03	-0.27	-0.17	-0.05
	CO204	Main member	0.58	-0.04	0.78	0.17	-0.19
6	CO205	Connected member	5.45	-0.04	-0.31	-0.3	-0.13
	CO205	Main member	-4.75	-0.04	-1.35	0.29	-0.27
6	CO206	Connected member	21.34	0.1	-0.46	-0.64	-0.8
	CO206	Main member	-18.31	-0.14	-5.51	0.61	-0.55
6	CO207	Connected member	10.68	-0.01	-0.33	-0.33	-0.13
	CO207	Main member	-9.48	-0.06	-2.27	0.32	-0.57
6	CO208	Connected member	11.54	-0.05	-0.35	-0.39	-0.19
	CO208	Main member	-9.64	0.14	-1.97	0.39	-0.11
6	CO209	Connected member	4.3	0.03	-0.3	-0.25	-0.07
	CO209	Main member	-3.53	0.07	-0.87	0.24	-0.23
6	CO210	Connected member	19.7	-0.05	-0.37	-0.41	-0.29
	CO210	Main member	-16.6	0.14	-3.49	0.4	-0.12
6	CO211	Connected member	19.51	-0.04	-0.37	-0.4	-0.4
	CO211	Main member	-16.44	0.06	-3.37	0.39	-0.21
6	CO212	Connected member	21.62	0.02	-0.46	-0.63	-0.49
	CO212	Main member	-18.59	-0.07	-6.28	0.59	-0.35
6	CO213	Connected member	5.46	-0.04	-0.31	-0.3	-0.13
	CO213	Main member	-4.79	-0.08	-1.35	0.29	-0.35
6	CO214	Connected member	2.77	-0.04	-0.29	-0.22	-0.12
	CO214	Main member	-2.42	-0.03	-0.03	0.22	-0.25
6	CO215	Connected member	18.66	0.09	-0.42	-0.55	-0.78
	CO215	Main member	-15.99	-0.13	-4.18	0.53	-0.53
6	CO216	Connected member	8	-0.02	-0.3	-0.25	-0.11
	CO216	Main member	-7.15	-0.05	-0.94	0.25	-0.55
6	CO217	Connected member	8.86	-0.06	-0.32	-0.31	-0.17
	CO217	Main member	-7.31	0.15	-0.65	0.32	-0.09
6	CO218	Connected member	1.62	0.02	-0.27	-0.17	-0.06
	CO218	Main member	-1.2	0.08	0.45	0.17	-0.21
6	CO219	Connected member	17.02	-0.06	-0.34	-0.33	-0.28
	CO219	Main member	-14.27	0.15	-2.17	0.33	-0.1
6	CO220	Connected member	16.82	-0.05	-0.33	-0.31	-0.38
	CO220	Main member	-14.11	0.07	-2.04	0.31	-0.19
6	CO221	Connected member	18.93	0.02	-0.42	-0.54	-0.47
	CO221	Main member	-16.26	-0.06	-4.95	0.52	-0.33
6	CO222	Connected member	2.77	-0.05	-0.29	-0.22	-0.12
	CO222	Main member	-2.46	-0.07	-0.03	0.22	-0.34
6	CO223	Connected member	2.04	-0.05	-0.28	-0.2	-0.11
	CO223	Main member	-1.78	-0.03	0.32	0.2	-0.25
6	CO224	Connected member	17.93	0.08	-0.41	-0.53	-0.77
	CO224	Main member	-15.35	-0.13	-3.82	0.51	-0.53
6	CO225	Connected member	7.27	-0.02	-0.3	-0.23	-0.11
	CO225	Main member	-6.52	-0.04	-0.59	0.23	-0.54
6	CO226	Connected member	8.13	-0.06	-0.31	-0.28	-0.17
	CO226	Main member	-6.67	0.16	-0.29	0.3	-0.09
6	CO227	Connected member	0.89	0.02	-0.27	-0.15	-0.06
	CO227	Main member	-0.57	0.08	0.8	0.15	-0.21
6	CO228	Connected member	16.29	-0.06	-0.33	-0.31	-0.27
	CO228	Main member	-13.64	0.16	-1.81	0.31	-0.09
6	CO229	Connected member	16.1	-0.05	-0.32	-0.29	-0.37
	CO229	Main member	-13.48	0.08	-1.68	0.29	-0.18
6	CO230	Connected member	18.21	0.01	-0.41	-0.52	-0.47
	CO230	Main member	-15.63	-0.06	-4.59	0.5	-0.33
6	CO231	Connected member	2.05	-0.05	-0.28	-0.2	-0.11
	CO231	Main member	-1.83	-0.07	0.33	0.21	-0.33



::LAV/team::

Page: 170/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO232	Connected member	4.72	-0.04	-0.31	-0.28	-0.13
	CO232	Main member	-4.12	-0.04	-1	0.27	-0.26
6	CO233	Connected member	20.61	0.09	-0.45	-0.62	-0.79
	CO233	Main member	-17.68	-0.14	-5.15	0.59	-0.55
6	CO234	Connected member	9.95	-0.02	-0.33	-0.31	-0.12
	CO234	Main member	-8.85	-0.05	-1.91	0.3	-0.56
6	CO235	Connected member	10.81	-0.05	-0.34	-0.36	-0.18
	CO235	Main member	-9.01	0.14	-1.61	0.37	-0.11
6	CO236	Connected member	3.57	0.02	-0.29	-0.23	-0.07
	CO236	Main member	-2.9	0.07	-0.51	0.22	-0.23
6	CO237	Connected member	18.97	-0.05	-0.36	-0.39	-0.29
	CO237	Main member	-15.97	0.14	-3.13	0.38	-0.12
6	CO238	Connected member	18.78	-0.04	-0.36	-0.37	-0.39
	CO238	Main member	-15.81	0.06	-3.01	0.37	-0.21
6	CO239	Connected member	20.89	0.02	-0.45	-0.6	-0.48
	CO239	Main member	-17.96	-0.07	-5.92	0.57	-0.35
6	CO240	Connected member	4.73	-0.04	-0.31	-0.28	-0.13
	CO240	Main member	-4.16	-0.07	-0.99	0.27	-0.35
6	CO241	Connected member	1.42	-0.05	-0.27	-0.18	-0.11
	CO241	Main member	-1.25	-0.03	0.63	0.19	-0.24
6	CO242	Connected member	17.31	0.08	-0.41	-0.51	-0.77
	CO242	Main member	-14.82	-0.12	-3.51	0.5	-0.52
6	CO243	Connected member	6.65	-0.02	-0.29	-0.21	-0.1
	CO243	Main member	-5.98	-0.04	-0.28	0.22	-0.54
6	CO244	Connected member	7.51	-0.06	-0.31	-0.27	-0.16
	CO244	Main member	-6.14	0.16	0.02	0.28	-0.08
6	CO245	Connected member	0.27	0.02	-0.26	-0.13	-0.05
	CO245	Main member	-0.03	0.08	1.11	0.14	-0.21
6	CO246	Connected member	15.67	-0.06	-0.32	-0.29	-0.27
	CO246	Main member	-13.1	0.16	-1.5	0.29	-0.09
6	CO247	Connected member	15.48	-0.06	-0.32	-0.27	-0.37
	CO247	Main member	-12.94	0.08	-1.38	0.28	-0.18
6	CO248	Connected member	17.59	0.01	-0.4	-0.5	-0.46
	CO248	Main member	-15.09	-0.06	-4.29	0.48	-0.33
6	CO249	Connected member	1.43	-0.05	-0.27	-0.18	-0.11
	CO249	Main member	-1.29	-0.07	0.63	0.19	-0.33
6	CO250	Connected member	1.42	-0.05	-0.27	-0.18	-0.11
	CO250	Main member	-1.25	-0.03	0.63	0.19	-0.25
6	CO251	Connected member	17.31	0.08	-0.41	-0.51	-0.77
	CO251	Main member	-14.82	-0.13	-3.51	0.5	-0.53
6	CO252	Connected member	6.65	-0.02	-0.29	-0.21	-0.1
	CO252	Main member	-5.98	-0.04	-0.28	0.22	-0.55
6	CO253	Connected member	7.51	-0.06	-0.31	-0.27	-0.16
	CO253	Main member	-6.14	0.16	0.02	0.28	-0.09
6	CO254	Connected member	0.27	0.02	-0.26	-0.13	-0.05
	CO254	Main member	-0.03	0.08	1.11	0.14	-0.21
6	CO255	Connected member	15.67	-0.06	-0.32	-0.29	-0.27
	CO255	Main member	-13.1	0.16	-1.5	0.29	-0.1
6	CO256	Connected member	15.48	-0.06	-0.32	-0.27	-0.37
	CO256	Main member	-12.94	0.08	-1.38	0.28	-0.19
6	CO257	Connected member	17.59	0.01	-0.4	-0.5	-0.46
	CO257	Main member	-15.09	-0.06	-4.29	0.48	-0.33
6	CO258	Connected member	1.43	-0.05	-0.27	-0.18	-0.11
	CO258	Main member	-1.29	-0.07	0.63	0.19	-0.34
6	CO259	Connected member	0.69	-0.05	-0.27	-0.16	-0.11
	CO259	Main member	-0.61	-0.03	0.99	0.17	-0.24
6	CO260	Connected member	16.58	0.08	-0.4	-0.49	-0.76
	CO260	Main member	-14.18	-0.12	-3.15	0.48	-0.52
6	CO261	Connected member	5.92	-0.02	-0.28	-0.19	-0.1
	CO261	Main member	-5.34	-0.04	0.08	0.2	-0.54
6	CO262	Connected member	6.78	-0.06	-0.3	-0.24	-0.16
	CO262	Main member	-5.5	0.16	0.38	0.26	-0.08
6	CO263	Connected member	-0.46	0.02	-0.25	-0.11	-0.05
	CO263	Main member	0.61	0.08	1.46	0.12	-0.2
6	CO264	Connected member	14.94	-0.06	-0.31	-0.27	-0.26
	CO264	Main member	-12.46	0.16	-1.15	0.27	-0.09
6	CO265	Connected member	14.75	-0.06	-0.31	-0.25	-0.36
	CO265	Main member	-12.31	0.08	-1.02	0.26	-0.17
6	CO266	Connected member	16.86	0.01	-0.39	-0.48	-0.46
	CO266	Main member	-14.46	-0.05	-3.93	0.46	-0.32
6	CO267	Connected member	0.7	-0.05	-0.27	-0.16	-0.11
	CO267	Main member	-0.65	-0.06	0.99	0.17	-0.33
6	CO268	Connected member	0.69	-0.05	-0.27	-0.16	-0.11
	CO268	Main member	-0.62	-0.03	0.98	0.17	-0.25
6	CO269	Connected member	16.58	0.08	-0.4	-0.49	-0.76
	CO269	Main member	-14.19	-0.12	-3.15	0.48	-0.53
6	CO270	Connected member	5.92	-0.02	-0.28	-0.19	-0.1
	CO270	Main member	-5.35	-0.04	0.08	0.2	-0.54
6	CO271	Connected member	6.78	-0.06	-0.3	-0.24	-0.16
	CO271	Main member	-5.51	0.16	0.38	0.26	-0.09
6	CO272	Connected member	-0.46	0.02	-0.25	-0.11	-0.05
	CO272	Main member	0.6	0.08	1.46	0.12	-0.21
6	CO273	Connected member	14.94	-0.06	-0.31	-0.27	-0.26
	CO273	Main member	-12.47	0.16	-1.15	0.27	-0.09
6	CO274	Connected member	14.75	-0.06	-0.31	-0.25	-0.36
	CO274	Main member	-12.31	0.08	-1.02	0.26	-0.18
6	CO275	Connected member	16.86	0.01	-0.39	-0.48	-0.46
	CO275	Main member	-14.46	-0.06	-3.93	0.46	-0.33
6	CO276	Connected member	0.7	-0.05	-0.27	-0.16	-0.11
	CO276	Main member	-0.66	-0.07	0.99	0.17	-0.33
6	CO277	Connected member	3.37	-0.04	-0.29	-0.24	-0.12
	CO277	Main member	-2.95	-0.04	-0.33	0.24	-0.26
6	CO278	Connected member	19.26	0.09	-0.43	-0.57	-0.78
	CO278	Main member	-16.51	-0.13	-4.48	0.55	-0.54



::LAV/team::

Page: 171/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO279	Connected member	8.6	-0.02	-0.31	-0.27	-0.11
	CO279	Main member	-7.68	-0.05	-1.24	0.27	-0.56
6	CO280	Connected member	9.46	-0.05	-0.33	-0.32	-0.18
	CO280	Main member	-7.84	0.15	-0.94	0.33	-0.1
6	CO281	Connected member	2.23	0.02	-0.28	-0.19	-0.06
	CO281	Main member	-1.73	0.08	0.15	0.18	-0.22
6	CO282	Connected member	17.62	-0.05	-0.34	-0.35	-0.28
	CO282	Main member	-14.8	0.15	-2.47	0.34	-0.11
6	CO283	Connected member	17.43	-0.05	-0.34	-0.33	-0.38
	CO283	Main member	-14.64	0.07	-2.34	0.33	-0.2
6	CO284	Connected member	19.54	0.02	-0.43	-0.56	-0.47
	CO284	Main member	-16.79	-0.07	-5.25	0.54	-0.34
6	CO285	Connected member	3.38	-0.04	-0.29	-0.24	-0.12
	CO285	Main member	-2.99	-0.07	-0.33	0.24	-0.34
6	CO286	Connected member	3.37	-0.04	-0.29	-0.24	-0.12
	CO286	Main member	-2.95	-0.04	-0.33	0.24	-0.26
6	CO287	Connected member	19.26	0.09	-0.43	-0.57	-0.78
	CO287	Main member	-16.52	-0.14	-4.48	0.55	-0.55
6	CO288	Connected member	8.6	-0.02	-0.31	-0.27	-0.11
	CO288	Main member	-7.68	-0.05	-1.24	0.27	-0.56
6	CO289	Connected member	9.46	-0.05	-0.33	-0.32	-0.18
	CO289	Main member	-7.84	0.15	-0.94	0.33	-0.11
6	CO290	Connected member	2.23	0.02	-0.28	-0.19	-0.06
	CO290	Main member	-1.73	0.07	0.15	0.18	-0.23
6	CO291	Connected member	17.62	-0.05	-0.34	-0.35	-0.28
	CO291	Main member	-14.8	0.14	-2.47	0.34	-0.12
6	CO292	Connected member	17.43	-0.05	-0.34	-0.33	-0.38
	CO292	Main member	-14.64	0.07	-2.34	0.33	-0.2
6	CO293	Connected member	19.54	0.02	-0.43	-0.56	-0.47
	CO293	Main member	-16.79	-0.07	-5.25	0.54	-0.35
6	CO294	Connected member	3.38	-0.04	-0.29	-0.24	-0.12
	CO294	Main member	-2.99	-0.07	-0.33	0.24	-0.35
6	CO295	Connected member	4.1	-0.04	-0.3	-0.26	-0.12
	CO295	Main member	-3.58	-0.04	-0.69	0.26	-0.26
6	CO296	Connected member	19.99	0.09	-0.44	-0.6	-0.79
	CO296	Main member	-17.15	-0.14	-4.84	0.57	-0.54
6	CO297	Connected member	9.33	-0.02	-0.32	-0.29	-0.12
	CO297	Main member	-8.31	-0.05	-1.6	0.29	-0.56
6	CO298	Connected member	10.19	-0.05	-0.34	-0.35	-0.18
	CO298	Main member	-8.47	0.15	-1.3	0.35	-0.1
6	CO299	Connected member	2.95	0.02	-0.29	-0.21	-0.06
	CO299	Main member	-2.36	0.07	-0.21	0.2	-0.22
6	CO300	Connected member	18.35	-0.05	-0.35	-0.37	-0.28
	CO300	Main member	-15.43	0.14	-2.83	0.36	-0.11
6	CO301	Connected member	18.16	-0.05	-0.35	-0.35	-0.39
	CO301	Main member	-15.27	0.07	-2.7	0.35	-0.2
6	CO302	Connected member	20.27	0.02	-0.44	-0.58	-0.48
	CO302	Main member	-17.42	-0.07	-5.61	0.56	-0.35
6	CO303	Connected member	4.11	-0.04	-0.3	-0.26	-0.13
	CO303	Main member	-3.62	-0.07	-0.69	0.26	-0.35
6	CO304	Connected member	4.1	-0.04	-0.3	-0.26	-0.12
	CO304	Main member	-3.58	-0.04	-0.69	0.26	-0.27
6	CO305	Connected member	19.99	0.09	-0.44	-0.6	-0.79
	CO305	Main member	-17.15	-0.14	-4.84	0.57	-0.55
6	CO306	Connected member	9.33	-0.02	-0.32	-0.29	-0.12
	CO306	Main member	-8.32	-0.06	-1.6	0.29	-0.57
6	CO307	Connected member	10.19	-0.05	-0.34	-0.35	-0.18
	CO307	Main member	-8.47	0.14	-1.3	0.35	-0.11
6	CO308	Connected member	2.96	0.02	-0.29	-0.21	-0.06
	CO308	Main member	-2.37	0.07	-0.21	0.2	-0.23
6	CO309	Connected member	18.35	-0.05	-0.35	-0.37	-0.28
	CO309	Main member	-15.43	0.14	-2.83	0.36	-0.12
6	CO310	Connected member	18.16	-0.05	-0.35	-0.35	-0.39
	CO310	Main member	-15.28	0.06	-2.7	0.35	-0.21
6	CO311	Connected member	20.27	0.02	-0.44	-0.58	-0.48
	CO311	Main member	-17.42	-0.07	-5.62	0.56	-0.35
6	CO312	Connected member	4.11	-0.04	-0.3	-0.26	-0.13
	CO312	Main member	-3.63	-0.08	-0.69	0.26	-0.36
6	CO313	Connected member	-2.23	0	-0.2	-0.12	0.03
	CO313	Main member	2.07	0.01	0.49	0.12	0.04
6	CO314	Connected member	-4.92	0	-0.18	-0.05	0.05
	CO314	Main member	4.41	0.02	1.81	0.06	0.06
6	CO315	Connected member	-5.65	0	-0.17	-0.03	0.05
	CO315	Main member	5.05	0.02	2.16	0.04	0.06
6	CO316	Connected member	-2.96	0	-0.19	-0.1	0.04
	CO316	Main member	2.71	0.01	0.85	0.11	0.04
6	CO317	Connected member	-7.63	0	-0.15	0.03	0.06
	CO317	Main member	6.77	0.02	3.13	-0.01	0.07
6	CO318	Connected member	-10.31	-0.01	-0.13	0.1	0.07
	CO318	Main member	9.11	0.02	4.44	-0.07	0.08
6	CO319	Connected member	-11.04	-0.01	-0.13	0.12	0.07
	CO319	Main member	9.74	0.03	4.8	-0.09	0.09
6	CO320	Connected member	-8.36	-0.01	-0.15	0.05	0.06
	CO320	Main member	7.4	0.02	3.49	-0.03	0.07
6	CO321	Connected member	-11.66	-0.01	-0.13	0.14	0.07
	CO321	Main member	10.29	0.03	5.1	-0.1	0.09
6	CO322	Connected member	-11.66	-0.01	-0.13	0.14	0.07
	CO322	Main member	10.28	0.02	5.1	-0.1	0.08
6	CO323	Connected member	-12.39	-0.01	-0.12	0.16	0.08
	CO323	Main member	10.92	0.03	5.46	-0.12	0.09
6	CO324	Connected member	-12.39	-0.01	-0.12	0.16	0.08
	CO324	Main member	10.92	0.02	5.46	-0.12	0.08
6	CO325	Connected member	-9.71	-0.01	-0.14	0.09	0.06
	CO325	Main member	8.58	0.02	4.15	-0.06	0.08



::LAV/team::

Page: 172/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO326	Connected member	-9.71	-0.01	-0.14	0.09	0.06
	CO326	Main member	8.57	0.02	4.15	-0.06	0.07
6	CO327	Connected member	-6.58	-0.04	-0.14	0.07	-0.03
	CO327	Main member	5.75	0	3.9	-0.04	-0.1
6	CO328	Connected member	2.95	0.02	-0.2	-0.12	-0.4
	CO328	Main member	-2.4	-0.04	1.44	0.14	-0.26
6	CO329	Connected member	-3.44	-0.02	-0.15	0.05	-0.02
	CO329	Main member	2.91	0	3.36	-0.02	-0.28
6	CO330	Connected member	-2.93	-0.05	-0.16	0.02	-0.05
	CO330	Main member	2.81	0.12	3.54	0.02	0
6	CO331	Connected member	-7.27	0.01	-0.14	0.1	0.01
	CO331	Main member	6.48	0.07	4.19	-0.07	-0.08
6	CO332	Connected member	1.97	-0.06	-0.16	0.01	-0.1
	CO332	Main member	-1.37	0.13	2.63	0.02	0
6	CO333	Connected member	1.85	-0.06	-0.16	0.02	-0.16
	CO333	Main member	-1.27	0.08	2.71	0.01	-0.05
6	CO334	Connected member	3.12	-0.02	-0.2	-0.11	-0.22
	CO334	Main member	-2.57	-0.01	0.97	0.13	-0.14
6	CO335	Connected member	-6.58	-0.04	-0.14	0.07	-0.03
	CO335	Main member	5.72	-0.02	3.91	-0.04	-0.15
6	CO336	Connected member	-6.58	-0.04	-0.14	0.07	-0.03
	CO336	Main member	5.74	-0.01	3.9	-0.04	-0.11
6	CO337	Connected member	2.95	0.02	-0.2	-0.12	-0.4
	CO337	Main member	-2.41	-0.04	1.44	0.14	-0.27
6	CO338	Connected member	-3.44	-0.02	-0.15	0.05	-0.02
	CO338	Main member	2.9	-0.01	3.36	-0.02	-0.28
6	CO339	Connected member	-2.93	-0.05	-0.16	0.02	-0.05
	CO339	Main member	2.81	0.12	3.54	0.02	-0.01
6	CO340	Connected member	-7.27	0.01	-0.14	0.1	0.01
	CO340	Main member	6.48	0.06	4.19	-0.07	-0.09
6	CO341	Connected member	1.97	-0.06	-0.16	0.01	-0.1
	CO341	Main member	-1.37	0.13	2.63	0.02	0
6	CO342	Connected member	1.85	-0.06	-0.16	0.02	-0.16
	CO342	Main member	-1.28	0.08	2.71	0.01	-0.06
6	CO343	Connected member	3.12	-0.02	-0.2	-0.11	-0.22
	CO343	Main member	-2.57	-0.01	0.97	0.13	-0.15
6	CO344	Connected member	-6.58	-0.04	-0.14	0.07	-0.03
	CO344	Main member	5.72	-0.03	3.9	-0.04	-0.16
6	CO345	Connected member	-7.31	-0.04	-0.14	0.09	-0.02
	CO345	Main member	6.38	0	4.26	-0.05	-0.1
6	CO346	Connected member	2.22	0.01	-0.19	-0.1	-0.4
	CO346	Main member	-1.77	-0.04	1.8	0.12	-0.25
6	CO347	Connected member	-4.17	-0.03	-0.14	0.07	-0.01
	CO347	Main member	3.54	0	3.72	-0.04	-0.27
6	CO348	Connected member	-3.66	-0.05	-0.15	0.04	-0.04
	CO348	Main member	3.45	0.13	3.9	0	0.01
6	CO349	Connected member	-8	0.01	-0.13	0.12	0.01
	CO349	Main member	7.11	0.07	4.55	-0.08	-0.08
6	CO350	Connected member	1.24	-0.06	-0.15	0.03	-0.09
	CO350	Main member	-0.73	0.13	2.99	0	0.01
6	CO351	Connected member	1.12	-0.06	-0.15	0.04	-0.15
	CO351	Main member	-0.64	0.08	3.07	-0.01	-0.05
6	CO352	Connected member	2.39	-0.02	-0.19	-0.09	-0.22
	CO352	Main member	-1.94	0	1.33	0.11	-0.14
6	CO353	Connected member	-7.31	-0.04	-0.14	0.09	-0.02
	CO353	Main member	6.36	-0.02	4.26	-0.05	-0.15
6	CO354	Connected member	-7.31	-0.04	-0.14	0.09	-0.02
	CO354	Main member	6.38	-0.01	4.26	-0.05	-0.11
6	CO355	Connected member	2.22	0.01	-0.19	-0.1	-0.4
	CO355	Main member	-1.78	-0.04	1.8	0.12	-0.26
6	CO356	Connected member	-4.17	-0.03	-0.14	0.07	-0.01
	CO356	Main member	3.54	0	3.72	-0.04	-0.28
6	CO357	Connected member	-3.66	-0.05	-0.15	0.04	-0.04
	CO357	Main member	3.44	0.12	3.9	0	0
6	CO358	Connected member	-8	0.01	-0.13	0.12	0.01
	CO358	Main member	7.11	0.06	4.54	-0.08	-0.09
6	CO359	Connected member	1.24	-0.06	-0.15	0.03	-0.09
	CO359	Main member	-0.74	0.13	2.99	0	0
6	CO360	Connected member	1.12	-0.06	-0.15	0.04	-0.15
	CO360	Main member	-0.64	0.08	3.07	-0.01	-0.05
6	CO361	Connected member	2.39	-0.02	-0.19	-0.09	-0.22
	CO361	Main member	-1.94	-0.01	1.33	0.11	-0.15
6	CO362	Connected member	-7.3	-0.04	-0.14	0.09	-0.02
	CO362	Main member	6.35	-0.03	4.26	-0.05	-0.16
6	CO363	Connected member	-4.63	-0.04	-0.16	0.01	-0.04
	CO363	Main member	4.04	-0.01	2.95	0.01	-0.12
6	CO364	Connected member	4.91	0.02	-0.22	-0.18	-0.41
	CO364	Main member	-4.11	-0.05	0.48	0.19	-0.27
6	CO365	Connected member	-1.49	-0.02	-0.16	-0.01	-0.03
	CO365	Main member	1.2	-0.01	2.4	0.03	-0.29
6	CO366	Connected member	-0.97	-0.05	-0.17	-0.04	-0.06
	CO366	Main member	1.11	0.12	2.58	0.07	-0.01
6	CO367	Connected member	-5.31	0.01	-0.15	0.04	0
	CO367	Main member	4.77	0.06	3.23	-0.02	-0.1
6	CO368	Connected member	3.92	-0.06	-0.18	-0.05	-0.11
	CO368	Main member	-3.07	0.12	1.67	0.07	-0.01
6	CO369	Connected member	3.81	-0.06	-0.18	-0.04	-0.17
	CO369	Main member	-2.98	0.07	1.75	0.06	-0.07
6	CO370	Connected member	5.07	-0.01	-0.22	-0.17	-0.23
	CO370	Main member	-4.27	-0.01	0.01	0.18	-0.16
6	CO371	Connected member	-4.62	-0.04	-0.16	0.01	-0.04
	CO371	Main member	4.02	-0.03	2.95	0.01	-0.17
6	CO372	Connected member	-4.63	-0.04	-0.16	0.01	-0.04
	CO372	Main member	4.04	-0.01	2.95	0.01	-0.12



::LAV/team::

Page: 173/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO373	Connected member	4.91	0.02	-0.22	-0.18	-0.41
	CO373	Main member	-4.11	-0.05	0.48	0.19	-0.28
6	CO374	Connected member	-1.49	-0.02	-0.16	-0.01	-0.03
	CO374	Main member	1.2	-0.01	2.4	0.03	-0.3
6	CO375	Connected member	-0.97	-0.05	-0.17	-0.04	-0.06
	CO375	Main member	1.1	0.11	2.58	0.07	-0.02
6	CO376	Connected member	-5.31	0.01	-0.15	0.04	0
	CO376	Main member	4.77	0.06	3.23	-0.02	-0.1
6	CO377	Connected member	3.92	-0.06	-0.18	-0.05	-0.11
	CO377	Main member	-3.07	0.12	1.67	0.07	-0.02
6	CO378	Connected member	3.81	-0.06	-0.18	-0.04	-0.17
	CO378	Main member	-2.98	0.07	1.75	0.06	-0.07
6	CO379	Connected member	5.08	-0.01	-0.22	-0.17	-0.23
	CO379	Main member	-4.28	-0.02	0.01	0.18	-0.17
6	CO380	Connected member	-4.62	-0.04	-0.16	0.01	-0.04
	CO380	Main member	4.01	-0.03	2.95	0.01	-0.18
6	CO381	Connected member	-5.23	-0.04	-0.15	0.03	-0.03
	CO381	Main member	4.57	-0.01	3.24	0	-0.11
6	CO382	Connected member	4.3	0.02	-0.21	-0.16	-0.41
	CO382	Main member	-3.58	-0.04	0.78	0.17	-0.27
6	CO383	Connected member	-2.09	-0.02	-0.16	0.01	-0.02
	CO383	Main member	1.73	-0.01	2.7	0.01	-0.28
6	CO384	Connected member	-1.58	-0.05	-0.17	-0.02	-0.05
	CO384	Main member	1.64	0.12	2.88	0.05	-0.01
6	CO385	Connected member	-5.92	0.01	-0.15	0.06	0
	CO385	Main member	5.3	0.06	3.53	-0.03	-0.09
6	CO386	Connected member	3.31	-0.06	-0.17	-0.03	-0.11
	CO386	Main member	-2.54	0.12	1.97	0.05	0
6	CO387	Connected member	3.2	-0.06	-0.17	-0.02	-0.17
	CO387	Main member	-2.45	0.08	2.05	0.05	-0.06
6	CO388	Connected member	4.47	-0.02	-0.21	-0.15	-0.23
	CO388	Main member	-3.74	-0.01	0.31	0.16	-0.15
6	CO389	Connected member	-5.23	-0.04	-0.15	0.03	-0.03
	CO389	Main member	4.55	-0.03	3.25	0	-0.16
6	CO390	Connected member	-5.96	-0.04	-0.15	0.05	-0.03
	CO390	Main member	5.21	0	3.6	-0.02	-0.1
6	CO391	Connected member	3.57	0.02	-0.21	-0.14	-0.4
	CO391	Main member	-2.94	-0.04	1.13	0.15	-0.26
6	CO392	Connected member	-2.82	-0.02	-0.15	0.03	-0.02
	CO392	Main member	2.37	0	3.06	0	-0.28
6	CO393	Connected member	-2.31	-0.05	-0.16	0	-0.05
	CO393	Main member	2.27	0.12	3.24	0.03	0
6	CO394	Connected member	-6.65	0.01	-0.14	0.08	0
	CO394	Main member	5.94	0.06	3.89	-0.05	-0.08
6	CO395	Connected member	2.59	-0.06	-0.16	-0.01	-0.1
	CO395	Main member	-1.91	0.13	2.33	0.04	0
6	CO396	Connected member	2.47	-0.06	-0.16	0	-0.16
	CO396	Main member	-1.81	0.08	2.4	0.03	-0.05
6	CO397	Connected member	3.74	-0.02	-0.2	-0.13	-0.23
	CO397	Main member	-3.11	-0.01	0.67	0.15	-0.15
6	CO398	Connected member	-5.96	-0.04	-0.15	0.05	-0.03
	CO398	Main member	5.18	-0.02	3.6	-0.02	-0.16
6	CO399	Connected member	-3.28	-0.03	-0.17	-0.03	-0.04
	CO399	Main member	2.87	-0.01	2.29	0.04	-0.12
6	CO400	Connected member	6.26	0.02	-0.23	-0.22	-0.42
	CO400	Main member	-5.28	-0.05	-0.19	0.22	-0.28
6	CO401	Connected member	-0.14	-0.02	-0.18	-0.05	-0.03
	CO401	Main member	0.03	-0.01	1.74	0.06	-0.3
6	CO402	Connected member	0.38	-0.05	-0.19	-0.08	-0.06
	CO402	Main member	-0.07	0.11	1.92	0.1	-0.02
6	CO403	Connected member	-3.97	0.01	-0.16	0	-0.01
	CO403	Main member	3.6	0.06	2.57	0.01	-0.1
6	CO404	Connected member	5.27	-0.05	-0.19	-0.09	-0.12
	CO404	Main member	-4.24	0.12	1.01	0.1	-0.02
6	CO405	Connected member	5.15	-0.05	-0.19	-0.08	-0.18
	CO405	Main member	-4.15	0.07	1.09	0.1	-0.07
6	CO406	Connected member	6.42	-0.01	-0.23	-0.21	-0.24
	CO406	Main member	-5.44	-0.02	-0.65	0.21	-0.16
6	CO407	Connected member	-3.27	-0.03	-0.17	-0.03	-0.04
	CO407	Main member	2.84	-0.03	2.29	0.05	-0.17
6	CO408	Connected member	-8.98	-0.01	-0.14	0.07	0.06
	CO408	Main member	7.94	0.02	3.79	-0.04	0.07
6	CO409	Connected member	-8.98	-0.01	-0.14	0.07	0.06
	CO409	Main member	7.94	0.02	3.79	-0.04	0.06
6	CO410	Connected member	-3.9	-0.03	-0.16	-0.01	-0.04
	CO410	Main member	3.41	-0.01	2.59	0.03	-0.12
6	CO411	Connected member	5.63	0.02	-0.23	-0.2	-0.42
	CO411	Main member	-4.74	-0.05	0.12	0.21	-0.28
6	CO412	Connected member	-0.76	-0.02	-0.17	-0.03	-0.03
	CO412	Main member	0.57	-0.01	2.05	0.05	-0.29
6	CO413	Connected member	-0.25	-0.05	-0.18	-0.06	-0.06
	CO413	Main member	0.47	0.11	2.23	0.08	-0.02
6	CO414	Connected member	-4.59	0.01	-0.16	0.02	-0.01
	CO414	Main member	4.14	0.06	2.88	0	-0.1
6	CO415	Connected member	4.65	-0.05	-0.18	-0.07	-0.11
	CO415	Main member	-3.7	0.12	1.32	0.09	-0.02
6	CO416	Connected member	4.53	-0.05	-0.18	-0.06	-0.17
	CO416	Main member	-3.61	0.07	1.39	0.08	-0.07
6	CO417	Connected member	5.8	-0.01	-0.22	-0.19	-0.24
	CO417	Main member	-4.9	-0.01	-0.35	0.2	-0.16
6	CO418	Connected member	-3.89	-0.04	-0.16	-0.01	-0.04
	CO418	Main member	3.38	-0.03	2.59	0.03	-0.17
6	CO419	Connected member	-3.9	-0.04	-0.16	-0.01	-0.04
	CO419	Main member	3.4	-0.01	2.59	0.03	-0.13



::LAV/team::

Page: 174/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO420	Connected member	5.64	0.02	-0.23	-0.2	-0.42
	CO420	Main member	-4.74	-0.05	0.12	0.21	-0.29
6	CO421	Connected member	-0.76	-0.02	-0.17	-0.03	-0.03
	CO421	Main member	0.56	-0.01	2.05	0.05	-0.3
6	CO422	Connected member	-0.24	-0.05	-0.18	-0.06	-0.06
	CO422	Main member	0.47	0.11	2.23	0.08	-0.03
6	CO423	Connected member	-4.58	0.01	-0.16	0.02	-0.01
	CO423	Main member	4.14	0.06	2.88	0	-0.11
6	CO424	Connected member	4.65	-0.05	-0.18	-0.07	-0.11
	CO424	Main member	-3.71	0.11	1.32	0.09	-0.02
6	CO425	Connected member	4.54	-0.05	-0.18	-0.06	-0.17
	CO425	Main member	-3.61	0.07	1.39	0.08	-0.08
6	CO426	Connected member	5.8	-0.01	-0.22	-0.19	-0.24
	CO426	Main member	-4.91	-0.02	-0.35	0.2	-0.17
6	CO427	Connected member	-3.89	-0.04	-0.16	-0.01	-0.04
	CO427	Main member	3.38	-0.03	2.59	0.03	-0.18
6	CO428	Connected member	-2.55	-0.03	-0.17	-0.05	-0.05
	CO428	Main member	2.24	-0.01	1.93	0.06	-0.13
6	CO429	Connected member	6.98	0.03	-0.24	-0.24	-0.42
	CO429	Main member	-5.91	-0.05	-0.54	0.24	-0.28
6	CO430	Connected member	0.59	-0.02	-0.18	-0.07	-0.04
	CO430	Main member	-0.6	-0.01	1.39	0.08	-0.3
6	CO431	Connected member	1.1	-0.04	-0.19	-0.1	-0.07
	CO431	Main member	-0.7	0.11	1.57	0.12	-0.02
6	CO432	Connected member	-3.24	0.01	-0.17	-0.02	-0.01
	CO432	Main member	2.97	0.06	2.22	0.03	-0.11
6	CO433	Connected member	6	-0.05	-0.2	-0.11	-0.12
	CO433	Main member	-4.88	0.11	0.65	0.12	-0.02
6	CO434	Connected member	5.88	-0.05	-0.2	-0.1	-0.18
	CO434	Main member	-4.78	0.07	0.73	0.11	-0.08
6	CO435	Connected member	7.15	-0.01	-0.24	-0.23	-0.25
	CO435	Main member	-6.08	-0.02	-1.01	0.23	-0.17
6	CO436	Connected member	-2.54	-0.03	-0.17	-0.05	-0.05
	CO436	Main member	2.21	-0.03	1.93	0.06	-0.18
6	CO437	Connected member	-4.93	0	-0.18	-0.05	0.05
	CO437	Main member	4.42	0.02	1.81	0.06	0.05
6	CO438	Connected member	-4.93	0	-0.18	-0.05	0.05
	CO438	Main member	4.41	0.01	1.81	0.06	0.04
6	CO439	Connected member	-7.62	0	-0.15	0.03	0.06
	CO439	Main member	6.76	0.02	3.13	-0.01	0.07
6	CO440	Connected member	-7.61	-0.01	-0.15	0.03	0.06
	CO440	Main member	6.75	0.02	3.13	-0.01	0.05
6	CO441	Connected member	-8.34	-0.01	-0.15	0.05	0.06
	CO441	Main member	7.39	0.02	3.48	-0.03	0.07
6	CO442	Connected member	-8.34	-0.01	-0.15	0.05	0.06
	CO442	Main member	7.39	0.02	3.48	-0.03	0.06
6	CO443	Connected member	-5.66	0	-0.17	-0.03	0.05
	CO443	Main member	5.06	0.02	2.17	0.04	0.06
6	CO444	Connected member	-5.66	0	-0.17	-0.03	0.05
	CO444	Main member	5.05	0.01	2.17	0.04	0.04
6	CO445	Connected member	-2.54	-0.03	-0.17	-0.05	-0.05
	CO445	Main member	2.23	-0.01	1.92	0.06	-0.12
6	CO446	Connected member	7	0.03	-0.24	-0.24	-0.42
	CO446	Main member	-5.92	-0.05	-0.55	0.24	-0.28
6	CO447	Connected member	0.6	-0.02	-0.18	-0.07	-0.04
	CO447	Main member	-0.61	-0.01	1.38	0.08	-0.3
6	CO448	Connected member	1.12	-0.04	-0.19	-0.1	-0.07
	CO448	Main member	-0.71	0.11	1.56	0.12	-0.02
6	CO449	Connected member	-3.22	0.01	-0.17	-0.02	-0.01
	CO449	Main member	2.96	0.06	2.21	0.03	-0.1
6	CO450	Connected member	6.01	-0.05	-0.2	-0.11	-0.12
	CO450	Main member	-4.89	0.11	0.65	0.12	-0.02
6	CO451	Connected member	5.9	-0.05	-0.2	-0.1	-0.18
	CO451	Main member	-4.79	0.07	0.72	0.11	-0.07
6	CO452	Connected member	7.16	-0.01	-0.24	-0.23	-0.25
	CO452	Main member	-6.09	-0.02	-1.02	0.23	-0.16
6	CO453	Connected member	-2.53	-0.03	-0.18	-0.05	-0.05
	CO453	Main member	2.2	-0.03	1.92	0.06	-0.17
6	CO454	Connected member	-2.53	-0.03	-0.17	-0.05	-0.05
	CO454	Main member	2.22	-0.02	1.92	0.06	-0.14
6	CO455	Connected member	7	0.03	-0.24	-0.24	-0.42
	CO455	Main member	-5.93	-0.06	-0.55	0.24	-0.3
6	CO456	Connected member	0.61	-0.02	-0.18	-0.07	-0.04
	CO456	Main member	-0.62	-0.02	1.38	0.08	-0.31
6	CO457	Connected member	1.12	-0.04	-0.19	-0.1	-0.07
	CO457	Main member	-0.72	0.1	1.56	0.12	-0.04
6	CO458	Connected member	-3.22	0.01	-0.17	-0.02	-0.01
	CO458	Main member	2.95	0.05	2.21	0.03	-0.12
6	CO459	Connected member	6.02	-0.05	-0.2	-0.11	-0.12
	CO459	Main member	-4.9	0.11	0.65	0.12	-0.04
6	CO460	Connected member	5.9	-0.05	-0.2	-0.1	-0.18
	CO460	Main member	-4.8	0.06	0.72	0.12	-0.09
6	CO461	Connected member	7.17	-0.01	-0.24	-0.23	-0.25
	CO461	Main member	-6.1	-0.02	-1.02	0.23	-0.18
6	CO462	Connected member	-2.53	-0.03	-0.18	-0.05	-0.05
	CO462	Main member	2.19	-0.04	1.92	0.06	-0.19
6	CO463	Connected member	-3.26	-0.03	-0.17	-0.03	-0.04
	CO463	Main member	2.86	-0.01	2.28	0.04	-0.12
6	CO464	Connected member	6.27	0.02	-0.23	-0.22	-0.42
	CO464	Main member	-5.29	-0.05	-0.19	0.22	-0.28
6	CO465	Connected member	-0.13	-0.02	-0.18	-0.05	-0.03
	CO465	Main member	0.02	-0.01	1.74	0.06	-0.29
6	CO466	Connected member	0.39	-0.05	-0.19	-0.08	-0.06
	CO466	Main member	-0.08	0.11	1.92	0.1	-0.02



::LAV/team::

Page: 175/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO467	Connected member	-3.95	0.01	-0.16	0	-0.01
	CO467	Main member	3.59	0.06	2.57	0.01	-0.1
6	CO468	Connected member	5.28	-0.05	-0.19	-0.09	-0.12
	CO468	Main member	-4.25	0.12	1.01	0.1	-0.02
6	CO469	Connected member	5.17	-0.05	-0.19	-0.08	-0.18
	CO469	Main member	-4.16	0.07	1.08	0.1	-0.07
6	CO470	Connected member	6.44	-0.01	-0.23	-0.21	-0.24
	CO470	Main member	-5.45	-0.01	-0.66	0.21	-0.16
6	CO471	Connected member	-3.26	-0.03	-0.17	-0.03	-0.04
	CO471	Main member	2.83	-0.03	2.28	0.05	-0.17
6	CO472	Connected member	-3.26	-0.03	-0.17	-0.03	-0.04
	CO472	Main member	2.85	-0.02	2.28	0.04	-0.13
6	CO473	Connected member	6.27	0.02	-0.23	-0.22	-0.42
	CO473	Main member	-5.3	-0.06	-0.19	0.22	-0.29
6	CO474	Connected member	-0.12	-0.02	-0.18	-0.05	-0.03
	CO474	Main member	0.01	-0.02	1.74	0.06	-0.31
6	CO475	Connected member	0.39	-0.05	-0.19	-0.08	-0.06
	CO475	Main member	-0.09	0.11	1.92	0.1	-0.03
6	CO476	Connected member	-3.95	0.01	-0.16	0	-0.01
	CO476	Main member	3.58	0.05	2.57	0.01	-0.11
6	CO477	Connected member	5.29	-0.05	-0.19	-0.09	-0.12
	CO477	Main member	-4.26	0.11	1.01	0.1	-0.03
6	CO478	Connected member	5.17	-0.05	-0.19	-0.08	-0.18
	CO478	Main member	-4.17	0.06	1.08	0.1	-0.08
6	CO479	Connected member	6.44	-0.01	-0.23	-0.21	-0.24
	CO479	Main member	-5.46	-0.02	-0.66	0.21	-0.18
6	CO480	Connected member	-3.26	-0.03	-0.17	-0.03	-0.04
	CO480	Main member	2.82	-0.04	2.28	0.05	-0.19
6	CO481	Connected member	-0.58	-0.03	-0.19	-0.1	-0.05
	CO481	Main member	0.52	-0.02	0.96	0.11	-0.13
6	CO482	Connected member	8.95	0.03	-0.26	-0.3	-0.44
	CO482	Main member	-7.62	-0.06	-1.51	0.29	-0.3
6	CO483	Connected member	2.56	-0.02	-0.2	-0.12	-0.05
	CO483	Main member	-2.32	-0.02	0.42	0.13	-0.31
6	CO484	Connected member	3.07	-0.04	-0.21	-0.15	-0.08
	CO484	Main member	-2.41	0.1	0.6	0.17	-0.04
6	CO485	Connected member	-1.27	0.01	-0.18	-0.07	-0.02
	CO485	Main member	1.25	0.05	1.25	0.08	-0.11
6	CO486	Connected member	7.97	-0.05	-0.22	-0.17	-0.13
	CO486	Main member	-6.59	0.11	-0.31	0.17	-0.04
6	CO487	Connected member	7.85	-0.05	-0.22	-0.16	-0.19
	CO487	Main member	-6.49	0.06	-0.24	0.16	-0.09
6	CO488	Connected member	9.12	0	-0.26	-0.29	-0.26
	CO488	Main member	-7.79	-0.02	-1.98	0.28	-0.18
6	CO489	Connected member	-0.58	-0.03	-0.19	-0.1	-0.06
	CO489	Main member	0.5	-0.04	0.97	0.11	-0.19
6	CO490	Connected member	-0.58	-0.03	-0.19	-0.1	-0.05
	CO490	Main member	0.51	-0.02	0.96	0.11	-0.15
6	CO491	Connected member	8.96	0.03	-0.26	-0.3	-0.44
	CO491	Main member	-7.63	-0.07	-1.51	0.29	-0.31
6	CO492	Connected member	2.56	-0.02	-0.2	-0.12	-0.05
	CO492	Main member	-2.33	-0.03	0.42	0.13	-0.33
6	CO493	Connected member	3.08	-0.04	-0.21	-0.15	-0.08
	CO493	Main member	-2.42	0.1	0.6	0.17	-0.05
6	CO494	Connected member	-1.27	0.01	-0.18	-0.07	-0.02
	CO494	Main member	1.24	0.05	1.25	0.08	-0.13
6	CO495	Connected member	7.97	-0.05	-0.22	-0.17	-0.13
	CO495	Main member	-6.6	0.1	-0.31	0.17	-0.05
6	CO496	Connected member	7.85	-0.05	-0.22	-0.16	-0.19
	CO496	Main member	-6.5	0.05	-0.24	0.17	-0.11
6	CO497	Connected member	9.12	0	-0.26	-0.29	-0.26
	CO497	Main member	-7.8	-0.03	-1.98	0.28	-0.19
6	CO498	Connected member	-0.57	-0.03	-0.19	-0.1	-0.06
	CO498	Main member	0.49	-0.04	0.97	0.11	-0.2
6	CO499	Connected member	0.15	-0.03	-0.2	-0.12	-0.06
	CO499	Main member	-0.11	-0.02	0.61	0.13	-0.14
6	CO500	Connected member	9.68	0.03	-0.27	-0.32	-0.44
	CO500	Main member	-8.26	-0.06	-1.87	0.31	-0.3
6	CO501	Connected member	3.29	-0.02	-0.21	-0.14	-0.05
	CO501	Main member	-2.95	-0.02	0.06	0.15	-0.31
6	CO502	Connected member	3.8	-0.04	-0.22	-0.18	-0.08
	CO502	Main member	-3.05	0.1	0.24	0.19	-0.04
6	CO503	Connected member	-0.54	0.01	-0.19	-0.09	-0.02
	CO503	Main member	0.62	0.05	0.89	0.1	-0.12
6	CO504	Connected member	8.7	-0.05	-0.23	-0.19	-0.14
	CO504	Main member	-7.22	0.1	-0.67	0.19	-0.04
6	CO505	Connected member	8.58	-0.04	-0.22	-0.18	-0.2
	CO505	Main member	-7.13	0.06	-0.6	0.18	-0.09
6	CO506	Connected member	9.85	0	-0.27	-0.31	-0.26
	CO506	Main member	-8.42	-0.03	-2.34	0.3	-0.18
6	CO507	Connected member	0.15	-0.03	-0.2	-0.12	-0.06
	CO507	Main member	-0.14	-0.04	0.61	0.13	-0.19
6	CO508	Connected member	0.15	-0.03	-0.2	-0.12	-0.06
	CO508	Main member	-0.12	-0.02	0.61	0.13	-0.15
6	CO509	Connected member	9.68	0.03	-0.27	-0.32	-0.44
	CO509	Main member	-8.27	-0.07	-1.87	0.31	-0.32
6	CO510	Connected member	3.29	-0.02	-0.21	-0.14	-0.05
	CO510	Main member	-2.96	-0.03	0.06	0.15	-0.33
6	CO511	Connected member	3.8	-0.04	-0.22	-0.18	-0.08
	CO511	Main member	-3.06	0.09	0.24	0.19	-0.06
6	CO512	Connected member	-0.54	0.01	-0.19	-0.09	-0.02
	CO512	Main member	0.61	0.04	0.89	0.1	-0.13
6	CO513	Connected member	8.7	-0.05	-0.23	-0.19	-0.14
	CO513	Main member	-7.23	0.1	-0.67	0.19	-0.06



::LAVteam::

Page: 176/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO514	Connected member	8.58	-0.04	-0.22	-0.18	-0.2
	CO514	Main member	-7.14	0.05	-0.6	0.18	-0.11
6	CO515	Connected member	9.85	0	-0.27	-0.31	-0.26
	CO515	Main member	-8.43	-0.03	-2.34	0.3	-0.2
6	CO516	Connected member	0.16	-0.03	-0.2	-0.12	-0.06
	CO516	Main member	-0.15	-0.04	0.61	0.13	-0.21
6	CO517	Connected member	6.23	-0.04	-0.25	-0.26	-0.14
	CO517	Main member	-5.48	-0.05	-1.53	0.25	-0.28
6	CO518	Connected member	22.12	0.1	-0.4	-0.6	-0.81
	CO518	Main member	-19.04	-0.15	-5.68	0.57	-0.57
6	CO519	Connected member	11.46	-0.01	-0.27	-0.29	-0.14
	CO519	Main member	-10.21	-0.06	-2.44	0.28	-0.58
6	CO520	Connected member	12.32	-0.05	-0.29	-0.34	-0.2
	CO520	Main member	-10.37	0.14	-2.14	0.35	-0.13
6	CO521	Connected member	5.08	0.03	-0.23	-0.21	-0.08
	CO521	Main member	-4.26	0.07	-1.04	0.19	-0.25
6	CO522	Connected member	20.48	-0.05	-0.3	-0.37	-0.31
	CO522	Main member	-17.33	0.13	-3.67	0.36	-0.14
6	CO523	Connected member	20.29	-0.04	-0.3	-0.36	-0.41
	CO523	Main member	-17.17	0.05	-3.54	0.35	-0.23
6	CO524	Connected member	22.4	0.03	-0.39	-0.59	-0.5
	CO524	Main member	-19.31	-0.08	-6.46	0.55	-0.37
6	CO525	Connected member	6.24	-0.04	-0.25	-0.26	-0.14
	CO525	Main member	-5.52	-0.08	-1.52	0.25	-0.37
6	CO526	Connected member	3.55	-0.04	-0.22	-0.18	-0.13
	CO526	Main member	-3.14	-0.04	-0.21	0.18	-0.26
6	CO527	Connected member	19.44	0.09	-0.36	-0.51	-0.79
	CO527	Main member	-16.71	-0.14	-4.35	0.49	-0.55
6	CO528	Connected member	8.78	-0.02	-0.23	-0.21	-0.12
	CO528	Main member	-7.88	-0.05	-1.12	0.21	-0.56
6	CO529	Connected member	9.64	-0.05	-0.25	-0.26	-0.19
	CO529	Main member	-8.03	0.15	-0.82	0.28	-0.11
6	CO530	Connected member	2.4	0.02	-0.2	-0.13	-0.07
	CO530	Main member	-1.93	0.07	0.27	0.13	-0.23
6	CO531	Connected member	17.8	-0.05	-0.27	-0.29	-0.29
	CO531	Main member	-15	0.15	-2.34	0.29	-0.12
6	CO532	Connected member	17.61	-0.05	-0.27	-0.27	-0.39
	CO532	Main member	-14.84	0.07	-2.22	0.27	-0.2
6	CO533	Connected member	19.72	0.02	-0.35	-0.5	-0.49
	CO533	Main member	-16.98	-0.07	-5.13	0.48	-0.35
6	CO534	Connected member	3.56	-0.04	-0.22	-0.18	-0.13
	CO534	Main member	-3.19	-0.07	-0.2	0.18	-0.35
6	CO535	Connected member	2.82	-0.04	-0.21	-0.15	-0.13
	CO535	Main member	-2.51	-0.04	0.15	0.16	-0.26
6	CO536	Connected member	18.71	0.09	-0.35	-0.49	-0.79
	CO536	Main member	-16.08	-0.13	-3.99	0.47	-0.54
6	CO537	Connected member	8.05	-0.02	-0.23	-0.19	-0.12
	CO537	Main member	-7.24	-0.05	-0.76	0.19	-0.56
6	CO538	Connected member	8.91	-0.06	-0.25	-0.24	-0.18
	CO538	Main member	-7.4	0.15	-0.46	0.26	-0.1
6	CO539	Connected member	1.67	0.02	-0.2	-0.11	-0.07
	CO539	Main member	-1.29	0.08	0.63	0.11	-0.22
6	CO540	Connected member	17.07	-0.06	-0.26	-0.26	-0.28
	CO540	Main member	-14.36	0.15	-1.98	0.27	-0.11
6	CO541	Connected member	16.88	-0.05	-0.26	-0.25	-0.39
	CO541	Main member	-14.2	0.07	-1.86	0.25	-0.2
6	CO542	Connected member	18.99	0.02	-0.34	-0.48	-0.48
	CO542	Main member	-16.35	-0.07	-4.77	0.46	-0.34
6	CO543	Connected member	2.83	-0.05	-0.21	-0.16	-0.13
	CO543	Main member	-2.55	-0.07	0.15	0.16	-0.35
6	CO544	Connected member	5.5	-0.04	-0.24	-0.23	-0.14
	CO544	Main member	-4.84	-0.05	-1.17	0.23	-0.28
6	CO545	Connected member	21.39	0.1	-0.39	-0.58	-0.81
	CO545	Main member	-18.41	-0.15	-5.32	0.55	-0.56
6	CO546	Connected member	10.73	-0.01	-0.26	-0.27	-0.13
	CO546	Main member	-9.58	-0.06	-2.08	0.26	-0.58
6	CO547	Connected member	11.6	-0.05	-0.28	-0.32	-0.2
	CO547	Main member	-9.74	0.14	-1.78	0.33	-0.12
6	CO548	Connected member	4.36	0.02	-0.22	-0.18	-0.08
	CO548	Main member	-3.63	0.07	-0.69	0.18	-0.24
6	CO549	Connected member	19.76	-0.05	-0.29	-0.35	-0.3
	CO549	Main member	-16.7	0.13	-3.31	0.34	-0.13
6	CO550	Connected member	19.56	-0.04	-0.29	-0.33	-0.41
	CO550	Main member	-16.54	0.06	-3.18	0.33	-0.22
6	CO551	Connected member	21.67	0.03	-0.38	-0.56	-0.5
	CO551	Main member	-18.68	-0.08	-6.1	0.53	-0.36
6	CO552	Connected member	5.51	-0.04	-0.24	-0.24	-0.14
	CO552	Main member	-4.89	-0.08	-1.16	0.23	-0.37
6	CO553	Connected member	2.2	-0.05	-0.2	-0.14	-0.12
	CO553	Main member	-1.97	-0.04	0.46	0.14	-0.26
6	CO554	Connected member	18.09	0.08	-0.34	-0.47	-0.78
	CO554	Main member	-15.54	-0.13	-3.69	0.46	-0.54
6	CO555	Connected member	7.43	-0.02	-0.22	-0.17	-0.12
	CO555	Main member	-6.7	-0.05	-0.45	0.17	-0.56
6	CO556	Connected member	8.29	-0.06	-0.24	-0.22	-0.18
	CO556	Main member	-6.86	0.15	-0.15	0.24	-0.1
6	CO557	Connected member	1.05	0.02	-0.19	-0.09	-0.06
	CO557	Main member	-0.75	0.08	0.94	0.09	-0.22
6	CO558	Connected member	16.45	-0.06	-0.25	-0.25	-0.28
	CO558	Main member	-13.82	0.15	-1.68	0.25	-0.11
6	CO559	Connected member	16.26	-0.05	-0.25	-0.23	-0.38
	CO559	Main member	-13.67	0.07	-1.55	0.24	-0.19
6	CO560	Connected member	18.37	0.01	-0.33	-0.46	-0.48
	CO560	Main member	-15.81	-0.06	-4.46	0.44	-0.34



::LAV/team::

Page: 177/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO561	Connected member	2.21	-0.05	-0.2	-0.14	-0.12
	CO561	Main member	-2.01	-0.07	0.46	0.15	-0.34
6	CO562	Connected member	2.2	-0.05	-0.2	-0.14	-0.12
	CO562	Main member	-1.98	-0.04	0.46	0.14	-0.27
6	CO563	Connected member	18.09	0.08	-0.34	-0.47	-0.78
	CO563	Main member	-15.55	-0.13	-3.69	0.46	-0.55
6	CO564	Connected member	7.43	-0.02	-0.22	-0.17	-0.12
	CO564	Main member	-6.71	-0.05	-0.45	0.17	-0.56
6	CO565	Connected member	8.29	-0.06	-0.24	-0.22	-0.18
	CO565	Main member	-6.87	0.15	-0.15	0.24	-0.11
6	CO566	Connected member	1.05	0.02	-0.19	-0.09	-0.06
	CO566	Main member	-0.76	0.07	0.94	0.09	-0.23
6	CO567	Connected member	16.45	-0.06	-0.25	-0.25	-0.28
	CO567	Main member	-13.83	0.15	-1.68	0.25	-0.11
6	CO568	Connected member	16.26	-0.05	-0.25	-0.23	-0.38
	CO568	Main member	-13.67	0.07	-1.55	0.24	-0.2
6	CO569	Connected member	18.37	0.01	-0.33	-0.46	-0.48
	CO569	Main member	-15.82	-0.07	-4.46	0.44	-0.35
6	CO570	Connected member	2.21	-0.05	-0.2	-0.14	-0.12
	CO570	Main member	-2.02	-0.07	0.46	0.15	-0.35
6	CO571	Connected member	1.47	-0.05	-0.2	-0.12	-0.12
	CO571	Main member	-1.34	-0.03	0.81	0.13	-0.25
6	CO572	Connected member	17.36	0.08	-0.33	-0.45	-0.78
	CO572	Main member	-14.91	-0.13	-3.33	0.44	-0.53
6	CO573	Connected member	6.7	-0.02	-0.21	-0.15	-0.11
	CO573	Main member	-6.07	-0.04	-0.1	0.16	-0.55
6	CO574	Connected member	7.56	-0.06	-0.23	-0.2	-0.17
	CO574	Main member	-6.23	0.16	0.2	0.22	-0.09
6	CO575	Connected member	0.32	0.02	-0.18	-0.07	-0.06
	CO575	Main member	-0.12	0.08	1.29	0.07	-0.22
6	CO576	Connected member	15.72	-0.06	-0.24	-0.22	-0.27
	CO576	Main member	-13.19	0.16	-1.32	0.23	-0.1
6	CO577	Connected member	15.53	-0.06	-0.24	-0.21	-0.38
	CO577	Main member	-13.03	0.08	-1.19	0.22	-0.19
6	CO578	Connected member	17.64	0.01	-0.32	-0.44	-0.47
	CO578	Main member	-15.18	-0.06	-4.1	0.42	-0.34
6	CO579	Connected member	1.48	-0.05	-0.2	-0.12	-0.12
	CO579	Main member	-1.38	-0.07	0.82	0.13	-0.34
6	CO580	Connected member	1.47	-0.05	-0.2	-0.12	-0.12
	CO580	Main member	-1.34	-0.04	0.81	0.13	-0.26
6	CO581	Connected member	17.36	0.08	-0.33	-0.45	-0.78
	CO581	Main member	-14.91	-0.13	-3.33	0.44	-0.54
6	CO582	Connected member	6.7	-0.02	-0.21	-0.15	-0.11
	CO582	Main member	-6.07	-0.05	-0.1	0.16	-0.56
6	CO583	Connected member	7.56	-0.06	-0.23	-0.2	-0.17
	CO583	Main member	-6.23	0.15	0.2	0.22	-0.1
6	CO584	Connected member	0.33	0.02	-0.18	-0.07	-0.06
	CO584	Main member	-0.12	0.08	1.29	0.07	-0.23
6	CO585	Connected member	15.72	-0.06	-0.24	-0.22	-0.27
	CO585	Main member	-13.19	0.15	-1.32	0.23	-0.11
6	CO586	Connected member	15.53	-0.06	-0.24	-0.21	-0.38
	CO586	Main member	-13.04	0.07	-1.19	0.22	-0.2
6	CO587	Connected member	17.64	0.01	-0.32	-0.44	-0.47
	CO587	Main member	-15.19	-0.06	-4.1	0.42	-0.34
6	CO588	Connected member	1.48	-0.05	-0.2	-0.12	-0.12
	CO588	Main member	-1.38	-0.07	0.82	0.13	-0.35
6	CO589	Connected member	4.16	-0.04	-0.22	-0.19	-0.13
	CO589	Main member	-3.67	-0.04	-0.5	0.19	-0.27
6	CO590	Connected member	20.05	0.09	-0.37	-0.53	-0.8
	CO590	Main member	-17.24	-0.14	-4.65	0.51	-0.56
6	CO591	Connected member	9.39	-0.02	-0.24	-0.23	-0.13
	CO591	Main member	-8.4	-0.06	-1.42	0.23	-0.57
6	CO592	Connected member	10.25	-0.05	-0.26	-0.28	-0.19
	CO592	Main member	-8.56	0.14	-1.12	0.29	-0.11
6	CO593	Connected member	3.01	0.02	-0.21	-0.14	-0.07
	CO593	Main member	-2.45	0.07	-0.02	0.14	-0.24
6	CO594	Connected member	18.41	-0.05	-0.28	-0.31	-0.29
	CO594	Main member	-15.52	0.14	-2.64	0.3	-0.12
6	CO595	Connected member	18.21	-0.05	-0.27	-0.29	-0.4
	CO595	Main member	-15.37	0.06	-2.52	0.29	-0.21
6	CO596	Connected member	20.32	0.02	-0.36	-0.52	-0.49
	CO596	Main member	-17.51	-0.07	-5.43	0.5	-0.36
6	CO597	Connected member	4.16	-0.04	-0.22	-0.2	-0.13
	CO597	Main member	-3.71	-0.08	-0.5	0.2	-0.36
6	CO598	Connected member	4.16	-0.04	-0.22	-0.19	-0.13
	CO598	Main member	-3.68	-0.05	-0.5	0.19	-0.28
6	CO599	Connected member	20.05	0.09	-0.37	-0.53	-0.8
	CO599	Main member	-17.24	-0.14	-4.65	0.51	-0.56
6	CO600	Connected member	9.39	-0.02	-0.24	-0.23	-0.13
	CO600	Main member	-8.41	-0.06	-1.42	0.23	-0.58
6	CO601	Connected member	10.25	-0.05	-0.26	-0.28	-0.19
	CO601	Main member	-8.57	0.14	-1.12	0.29	-0.12
6	CO602	Connected member	3.01	0.02	-0.21	-0.14	-0.07
	CO602	Main member	-2.46	0.07	-0.02	0.14	-0.24
6	CO603	Connected member	18.41	-0.05	-0.28	-0.31	-0.29
	CO603	Main member	-15.53	0.14	-2.64	0.3	-0.13
6	CO604	Connected member	18.22	-0.05	-0.27	-0.29	-0.4
	CO604	Main member	-15.37	0.06	-2.52	0.29	-0.22
6	CO605	Connected member	20.32	0.02	-0.36	-0.52	-0.49
	CO605	Main member	-17.52	-0.08	-5.43	0.5	-0.36
6	CO606	Connected member	4.17	-0.04	-0.22	-0.2	-0.13
	CO606	Main member	-3.72	-0.08	-0.5	0.2	-0.37
6	CO607	Connected member	4.88	-0.04	-0.23	-0.22	-0.14
	CO607	Main member	-4.31	-0.04	-0.86	0.21	-0.28



::LAV/team::

Page: 178/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO608	Connected member	20.77	0.09	-0.38	-0.56	-0.8
	CO608	Main member	-17.87	-0.14	-5.01	0.53	-0.56
6	CO609	Connected member	10.11	-0.02	-0.25	-0.25	-0.13
	CO609	Main member	-9.04	-0.06	-1.77	0.24	-0.58
6	CO610	Connected member	10.97	-0.05	-0.27	-0.3	-0.19
	CO610	Main member	-9.2	0.14	-1.48	0.31	-0.12
6	CO611	Connected member	3.74	0.02	-0.22	-0.17	-0.08
	CO611	Main member	-3.09	0.07	-0.38	0.16	-0.24
6	CO612	Connected member	19.13	-0.05	-0.29	-0.33	-0.3
	CO612	Main member	-16.16	0.14	-3	0.32	-0.13
6	CO613	Connected member	18.94	-0.04	-0.28	-0.31	-0.4
	CO613	Main member	-16	0.06	-2.88	0.31	-0.22
6	CO614	Connected member	21.05	0.02	-0.37	-0.54	-0.49
	CO614	Main member	-18.14	-0.08	-5.79	0.52	-0.36
6	CO615	Connected member	4.89	-0.04	-0.23	-0.22	-0.14
	CO615	Main member	-4.35	-0.08	-0.86	0.22	-0.36
6	CO616	Connected member	4.89	-0.04	-0.23	-0.22	-0.14
	CO616	Main member	-4.31	-0.05	-0.86	0.21	-0.28
6	CO617	Connected member	20.78	0.09	-0.38	-0.56	-0.8
	CO617	Main member	-17.88	-0.15	-5.01	0.53	-0.57
6	CO618	Connected member	10.12	-0.02	-0.25	-0.25	-0.13
	CO618	Main member	-9.04	-0.06	-1.77	0.24	-0.58
6	CO619	Connected member	10.98	-0.05	-0.27	-0.3	-0.2
	CO619	Main member	-9.2	0.14	-1.48	0.31	-0.13
6	CO620	Connected member	3.74	0.02	-0.22	-0.17	-0.08
	CO620	Main member	-3.09	0.07	-0.38	0.16	-0.25
6	CO621	Connected member	19.14	-0.05	-0.29	-0.33	-0.3
	CO621	Main member	-16.16	0.13	-3	0.32	-0.14
6	CO622	Connected member	18.94	-0.04	-0.28	-0.31	-0.4
	CO622	Main member	-16	0.06	-2.88	0.31	-0.22
6	CO623	Connected member	21.05	0.02	-0.37	-0.54	-0.49
	CO623	Main member	-18.15	-0.08	-5.79	0.52	-0.37
6	CO624	Connected member	4.89	-0.04	-0.23	-0.22	-0.14
	CO624	Main member	-4.35	-0.08	-0.86	0.22	-0.37
6	CO625	Connected member	-2.23	0	-0.2	-0.12	0.03
	CO625	Main member	2.07	0.01	0.49	0.12	0.04
6	CO626	Connected member	-4.22	0	-0.18	-0.07	0.04
	CO626	Main member	3.81	0.02	1.46	0.07	0.05
6	CO627	Connected member	-4.76	0	-0.18	-0.05	0.04
	CO627	Main member	4.28	0.02	1.73	0.06	0.06
6	CO628	Connected member	-2.77	0	-0.19	-0.11	0.04
	CO628	Main member	2.54	0.01	0.75	0.11	0.04
6	CO629	Connected member	-5.83	0	-0.17	-0.02	0.05
	CO629	Main member	5.2	0.02	2.25	0.03	0.06
6	CO630	Connected member	-7.82	-0.01	-0.15	0.03	0.06
	CO630	Main member	6.94	0.02	3.23	-0.01	0.07
6	CO631	Connected member	-8.36	-0.01	-0.15	0.05	0.06
	CO631	Main member	7.41	0.02	3.49	-0.03	0.07
6	CO632	Connected member	-6.37	0	-0.16	-0.01	0.05
	CO632	Main member	5.67	0.02	2.52	0.02	0.06
6	CO633	Connected member	-8.72	-0.01	-0.15	0.06	0.06
	CO633	Main member	7.72	0.02	3.66	-0.04	0.07
6	CO634	Connected member	-8.72	-0.01	-0.15	0.06	0.06
	CO634	Main member	7.72	0.02	3.66	-0.03	0.07
6	CO635	Connected member	-9.26	-0.01	-0.14	0.07	0.06
	CO635	Main member	8.19	0.02	3.93	-0.05	0.08
6	CO636	Connected member	-9.26	-0.01	-0.14	0.07	0.06
	CO636	Main member	8.19	0.02	3.93	-0.05	0.07
6	CO637	Connected member	-7.27	0	-0.16	0.02	0.05
	CO637	Main member	6.46	0.02	2.96	0	0.06
6	CO638	Connected member	-7.27	0	-0.16	0.02	0.05
	CO638	Main member	6.45	0.02	2.96	0	0.06
6	CO639	Connected member	-5.33	-0.03	-0.16	0.01	-0.01
	CO639	Main member	4.7	0	2.86	0.01	-0.05
6	CO640	Connected member	1.02	0.01	-0.2	-0.12	-0.25
	CO640	Main member	-0.74	-0.02	1.22	0.13	-0.16
6	CO641	Connected member	-3.24	-0.02	-0.16	0	0
	CO641	Main member	2.8	0	2.5	0.02	-0.17
6	CO642	Connected member	-2.9	-0.03	-0.17	-0.02	-0.02
	CO642	Main member	2.74	0.08	2.62	0.05	0.02
6	CO643	Connected member	-5.79	0	-0.15	0.03	0.02
	CO643	Main member	5.18	0.05	3.05	-0.01	-0.04
6	CO644	Connected member	0.37	-0.04	-0.17	-0.03	-0.05
	CO644	Main member	-0.05	0.09	2.02	0.05	0.02
6	CO645	Connected member	0.29	-0.04	-0.17	-0.03	-0.09
	CO645	Main member	0.02	0.06	2.07	0.05	-0.02
6	CO646	Connected member	1.13	-0.01	-0.2	-0.11	-0.14
	CO646	Main member	-0.85	0	0.91	0.12	-0.08
6	CO647	Connected member	-5.33	-0.03	-0.16	0.01	-0.01
	CO647	Main member	4.68	-0.01	2.86	0.01	-0.09
6	CO648	Connected member	-5.33	-0.03	-0.16	0.01	-0.01
	CO648	Main member	4.69	0	2.86	0.01	-0.06
6	CO649	Connected member	1.02	0.01	-0.2	-0.12	-0.25
	CO649	Main member	-0.74	-0.02	1.22	0.13	-0.16
6	CO650	Connected member	-3.24	-0.02	-0.16	0	0
	CO650	Main member	2.8	0	2.5	0.02	-0.17
6	CO651	Connected member	-2.9	-0.03	-0.17	-0.02	-0.02
	CO651	Main member	2.74	0.08	2.62	0.05	0.01
6	CO652	Connected member	-5.79	0	-0.15	0.03	0.02
	CO652	Main member	5.18	0.05	3.05	-0.01	-0.04
6	CO653	Connected member	0.37	-0.04	-0.17	-0.03	-0.05
	CO653	Main member	-0.05	0.09	2.02	0.05	0.01
6	CO654	Connected member	0.29	-0.04	-0.17	-0.03	-0.09
	CO654	Main member	0.01	0.06	2.07	0.05	-0.02



::LAVteam::

Page: 179/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO655	Connected member	1.14	-0.01	-0.2	-0.11	-0.14
	CO655	Main member	-0.85	0	0.91	0.12	-0.08
6	CO656	Connected member	-5.33	-0.03	-0.16	0.01	-0.01
	CO656	Main member	4.68	-0.01	2.86	0.01	-0.09
6	CO657	Connected member	-5.87	-0.03	-0.15	0.02	0
	CO657	Main member	5.17	0	3.13	0	-0.05
6	CO658	Connected member	0.48	0.01	-0.19	-0.1	-0.25
	CO658	Main member	-0.27	-0.02	1.48	0.12	-0.15
6	CO659	Connected member	-3.78	-0.02	-0.16	0.01	0
	CO659	Main member	3.27	0	2.77	0.01	-0.17
6	CO660	Connected member	-3.44	-0.04	-0.16	-0.01	-0.02
	CO660	Main member	3.21	0.09	2.89	0.03	0.02
6	CO661	Connected member	-6.33	0	-0.15	0.04	0.02
	CO661	Main member	5.65	0.05	3.32	-0.02	-0.04
6	CO662	Connected member	-0.17	-0.04	-0.17	-0.02	-0.05
	CO662	Main member	0.42	0.09	2.28	0.04	0.02
6	CO663	Connected member	-0.25	-0.04	-0.17	-0.01	-0.09
	CO663	Main member	0.49	0.06	2.33	0.03	-0.01
6	CO664	Connected member	0.6	-0.01	-0.19	-0.1	-0.13
	CO664	Main member	-0.38	0	1.17	0.11	-0.08
6	CO665	Connected member	-5.87	-0.03	-0.15	0.02	0
	CO665	Main member	5.15	-0.01	3.13	0	-0.09
6	CO666	Connected member	-5.87	-0.03	-0.15	0.02	0
	CO666	Main member	5.16	0	3.13	0	-0.06
6	CO667	Connected member	0.48	0.01	-0.19	-0.1	-0.25
	CO667	Main member	-0.27	-0.02	1.48	0.12	-0.16
6	CO668	Connected member	-3.78	-0.02	-0.16	0.01	0
	CO668	Main member	3.27	0	2.77	0.01	-0.17
6	CO669	Connected member	-3.44	-0.04	-0.16	-0.01	-0.02
	CO669	Main member	3.21	0.08	2.89	0.04	0.01
6	CO670	Connected member	-6.33	0	-0.15	0.04	0.02
	CO670	Main member	5.65	0.05	3.32	-0.02	-0.04
6	CO671	Connected member	-0.17	-0.04	-0.17	-0.02	-0.05
	CO671	Main member	0.42	0.09	2.28	0.04	0.02
6	CO672	Connected member	-0.25	-0.04	-0.17	-0.01	-0.09
	CO672	Main member	0.48	0.06	2.33	0.03	-0.02
6	CO673	Connected member	0.6	-0.01	-0.19	-0.1	-0.13
	CO673	Main member	-0.38	0	1.17	0.11	-0.08
6	CO674	Connected member	-5.87	-0.03	-0.15	0.02	0
	CO674	Main member	5.15	-0.01	3.13	0	-0.09
6	CO675	Connected member	-3.88	-0.02	-0.17	-0.03	-0.01
	CO675	Main member	3.43	0	2.15	0.05	-0.06
6	CO676	Connected member	2.47	0.01	-0.21	-0.16	-0.26
	CO676	Main member	-2	-0.03	0.51	0.17	-0.17
6	CO677	Connected member	-1.79	-0.02	-0.18	-0.04	-0.01
	CO677	Main member	1.54	0	1.79	0.06	-0.18
6	CO678	Connected member	-1.45	-0.03	-0.18	-0.06	-0.03
	CO678	Main member	1.48	0.08	1.91	0.08	0.01
6	CO679	Connected member	-4.34	0	-0.17	-0.01	0.01
	CO679	Main member	3.92	0.04	2.35	0.03	-0.05
6	CO680	Connected member	1.81	-0.04	-0.18	-0.07	-0.06
	CO680	Main member	-1.31	0.08	1.31	0.09	0.01
6	CO681	Connected member	1.74	-0.04	-0.18	-0.07	-0.1
	CO681	Main member	-1.24	0.05	1.36	0.08	-0.03
6	CO682	Connected member	2.58	-0.01	-0.21	-0.15	-0.14
	CO682	Main member	-2.11	0	0.2	0.16	-0.09
6	CO683	Connected member	-3.88	-0.02	-0.17	-0.03	-0.01
	CO683	Main member	3.42	-0.02	2.16	0.05	-0.1
6	CO684	Connected member	-3.88	-0.02	-0.17	-0.03	-0.01
	CO684	Main member	3.43	0	2.15	0.05	-0.07
6	CO685	Connected member	2.47	0.01	-0.21	-0.16	-0.26
	CO685	Main member	-2	-0.03	0.51	0.17	-0.17
6	CO686	Connected member	-1.79	-0.02	-0.18	-0.04	-0.01
	CO686	Main member	1.54	0	1.79	0.06	-0.18
6	CO687	Connected member	-1.45	-0.03	-0.18	-0.06	-0.03
	CO687	Main member	1.47	0.08	1.91	0.08	0
6	CO688	Connected member	-4.34	0	-0.17	-0.01	0.01
	CO688	Main member	3.92	0.04	2.35	0.03	-0.06
6	CO689	Connected member	1.82	-0.04	-0.18	-0.07	-0.06
	CO689	Main member	-1.31	0.08	1.31	0.09	0
6	CO690	Connected member	1.74	-0.04	-0.18	-0.07	-0.1
	CO690	Main member	-1.25	0.05	1.36	0.08	-0.03
6	CO691	Connected member	2.58	-0.01	-0.21	-0.15	-0.14
	CO691	Main member	-2.11	-0.01	0.2	0.16	-0.09
6	CO692	Connected member	-3.88	-0.02	-0.17	-0.03	-0.01
	CO692	Main member	3.41	-0.02	2.16	0.05	-0.1
6	CO693	Connected member	-4.43	-0.02	-0.17	-0.02	-0.01
	CO693	Main member	3.91	0	2.42	0.03	-0.06
6	CO694	Connected member	1.92	0.01	-0.21	-0.14	-0.26
	CO694	Main member	-1.52	-0.02	0.78	0.15	-0.16
6	CO695	Connected member	-2.34	-0.02	-0.17	-0.03	0
	CO695	Main member	2.02	0	2.06	0.05	-0.17
6	CO696	Connected member	-2	-0.03	-0.18	-0.05	-0.02
	CO696	Main member	1.96	0.08	2.18	0.07	0.01
6	CO697	Connected member	-4.89	0	-0.16	0	0.01
	CO697	Main member	4.4	0.05	2.61	0.01	-0.04
6	CO698	Connected member	1.27	-0.04	-0.18	-0.06	-0.06
	CO698	Main member	-0.83	0.09	1.58	0.07	0.01
6	CO699	Connected member	1.19	-0.04	-0.18	-0.05	-0.1
	CO699	Main member	-0.77	0.06	1.63	0.07	-0.02
6	CO700	Connected member	2.03	-0.01	-0.2	-0.14	-0.14
	CO700	Main member	-1.63	0	0.47	0.15	-0.08
6	CO701	Connected member	-4.43	-0.03	-0.17	-0.02	-0.01
	CO701	Main member	3.9	-0.01	2.42	0.03	-0.09



::LAV/team::

Page: 180/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO702	Connected member	-4.97	-0.03	-0.16	0	-0.01
	CO702	Main member	4.38	0	2.69	0.02	-0.05
6	CO703	Connected member	1.38	0.01	-0.2	-0.13	-0.25
	CO703	Main member	-1.05	-0.02	1.04	0.14	-0.16
6	CO704	Connected member	-2.88	-0.02	-0.17	-0.01	0
	CO704	Main member	2.49	0	2.33	0.03	-0.17
6	CO705	Connected member	-2.54	-0.03	-0.17	-0.03	-0.02
	CO705	Main member	2.43	0.08	2.45	0.06	0.01
6	CO706	Connected member	-5.43	0	-0.16	0.02	0.01
	CO706	Main member	4.87	0.05	2.88	0	-0.04
6	CO707	Connected member	0.73	-0.04	-0.17	-0.04	-0.05
	CO707	Main member	-0.36	0.09	1.84	0.06	0.02
6	CO708	Connected member	0.65	-0.04	-0.17	-0.04	-0.09
	CO708	Main member	-0.3	0.06	1.89	0.05	-0.02
6	CO709	Connected member	1.49	-0.01	-0.2	-0.12	-0.14
	CO709	Main member	-1.16	0	0.73	0.13	-0.08
6	CO710	Connected member	-4.97	-0.03	-0.16	0	-0.01
	CO710	Main member	4.37	-0.01	2.69	0.02	-0.09
6	CO711	Connected member	-2.98	-0.02	-0.18	-0.06	-0.02
	CO711	Main member	2.65	0	1.71	0.07	-0.07
6	CO712	Connected member	3.37	0.01	-0.22	-0.19	-0.27
	CO712	Main member	-2.78	-0.03	0.07	0.19	-0.17
6	CO713	Connected member	-0.89	-0.01	-0.18	-0.07	-0.01
	CO713	Main member	0.76	0	1.35	0.08	-0.18
6	CO714	Connected member	-0.55	-0.03	-0.19	-0.09	-0.03
	CO714	Main member	0.69	0.08	1.47	0.11	0
6	CO715	Connected member	-3.44	0.01	-0.17	-0.04	0.01
	CO715	Main member	3.14	0.04	1.91	0.05	-0.05
6	CO716	Connected member	2.71	-0.04	-0.19	-0.1	-0.06
	CO716	Main member	-2.09	0.08	0.86	0.11	0
6	CO717	Connected member	2.64	-0.04	-0.19	-0.09	-0.1
	CO717	Main member	-2.03	0.05	0.92	0.1	-0.03
6	CO718	Connected member	3.48	-0.01	-0.22	-0.18	-0.15
	CO718	Main member	-2.89	-0.01	-0.24	0.18	-0.09
6	CO719	Connected member	-2.98	-0.02	-0.18	-0.06	-0.02
	CO719	Main member	2.63	-0.02	1.72	0.07	-0.1
6	CO720	Connected member	-6.73	0	-0.16	0	0.05
	CO720	Main member	5.99	0.02	2.69	0.01	0.06
6	CO721	Connected member	-6.73	0	-0.16	0	0.05
	CO721	Main member	5.98	0.02	2.69	0.01	0.06
6	CO722	Connected member	-3.34	-0.02	-0.17	-0.05	-0.02
	CO722	Main member	2.96	0	1.89	0.06	-0.07
6	CO723	Connected member	3.01	0.01	-0.22	-0.18	-0.26
	CO723	Main member	-2.47	-0.03	0.24	0.18	-0.17
6	CO724	Connected member	-1.25	-0.01	-0.18	-0.06	-0.01
	CO724	Main member	1.07	0	1.53	0.07	-0.18
6	CO725	Connected member	-0.91	-0.03	-0.19	-0.08	-0.03
	CO725	Main member	1.01	0.08	1.65	0.1	0
6	CO726	Connected member	-3.8	0.01	-0.17	-0.03	0.01
	CO726	Main member	3.45	0.04	2.08	0.04	-0.05
6	CO727	Connected member	2.35	-0.04	-0.19	-0.09	-0.06
	CO727	Main member	-1.78	0.08	1.04	0.1	0
6	CO728	Connected member	2.28	-0.04	-0.19	-0.08	-0.1
	CO728	Main member	-1.71	0.05	1.09	0.1	-0.03
6	CO729	Connected member	3.12	-0.01	-0.22	-0.17	-0.15
	CO729	Main member	-2.58	0	-0.07	0.17	-0.09
6	CO730	Connected member	-3.34	-0.02	-0.18	-0.05	-0.02
	CO730	Main member	2.95	-0.02	1.89	0.06	-0.1
6	CO731	Connected member	-3.34	-0.02	-0.17	-0.05	-0.02
	CO731	Main member	2.96	0	1.89	0.06	-0.07
6	CO732	Connected member	3.01	0.01	-0.22	-0.18	-0.26
	CO732	Main member	-2.47	-0.03	0.24	0.18	-0.17
6	CO733	Connected member	-1.25	-0.01	-0.18	-0.06	-0.01
	CO733	Main member	1.07	-0.01	1.53	0.07	-0.19
6	CO734	Connected member	-0.91	-0.03	-0.19	-0.08	-0.03
	CO734	Main member	1	0.08	1.65	0.1	0
6	CO735	Connected member	-3.8	0.01	-0.17	-0.03	0.01
	CO735	Main member	3.45	0.04	2.08	0.04	-0.06
6	CO736	Connected member	2.35	-0.04	-0.19	-0.09	-0.06
	CO736	Main member	-1.78	0.08	1.04	0.1	0
6	CO737	Connected member	2.28	-0.04	-0.19	-0.08	-0.1
	CO737	Main member	-1.72	0.05	1.09	0.1	-0.04
6	CO738	Connected member	3.12	-0.01	-0.22	-0.17	-0.15
	CO738	Main member	-2.58	-0.01	-0.07	0.17	-0.1
6	CO739	Connected member	-3.34	-0.02	-0.18	-0.05	-0.02
	CO739	Main member	2.94	-0.02	1.89	0.06	-0.11
6	CO740	Connected member	-2.44	-0.02	-0.18	-0.07	-0.02
	CO740	Main member	2.18	0	1.45	0.08	-0.07
6	CO741	Connected member	3.91	0.01	-0.23	-0.2	-0.27
	CO741	Main member	-3.25	-0.03	-0.2	0.2	-0.17
6	CO742	Connected member	-0.35	-0.01	-0.19	-0.09	-0.01
	CO742	Main member	0.29	-0.01	1.09	0.09	-0.19
6	CO743	Connected member	-0.01	-0.03	-0.19	-0.11	-0.03
	CO743	Main member	0.23	0.08	1.21	0.12	0
6	CO744	Connected member	-2.9	0.01	-0.18	-0.05	0
	CO744	Main member	2.67	0.04	1.64	0.06	-0.06
6	CO745	Connected member	3.25	-0.04	-0.2	-0.11	-0.07
	CO745	Main member	-2.56	0.08	0.6	0.12	0
6	CO746	Connected member	3.18	-0.04	-0.2	-0.11	-0.11
	CO746	Main member	-2.5	0.05	0.65	0.12	-0.04
6	CO747	Connected member	4.02	-0.01	-0.22	-0.2	-0.15
	CO747	Main member	-3.36	-0.01	-0.51	0.2	-0.1
6	CO748	Connected member	-2.44	-0.02	-0.18	-0.07	-0.02
	CO748	Main member	2.16	-0.02	1.45	0.08	-0.1



::LAV/team::

Page: 181/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO749	Connected member	-4.03	0	-0.18	-0.07	0.04
	CO749	Main member	3.64	0.02	1.37	0.08	0.05
6	CO750	Connected member	-4.03	0	-0.18	-0.07	0.04
	CO750	Main member	3.63	0.01	1.37	0.08	0.04
6	CO751	Connected member	-6.02	0	-0.17	-0.02	0.05
	CO751	Main member	5.37	0.02	2.35	0.03	0.06
6	CO752	Connected member	-6.02	0	-0.17	-0.02	0.05
	CO752	Main member	5.36	0.01	2.34	0.03	0.05
6	CO753	Connected member	-6.56	0	-0.16	0	0.05
	CO753	Main member	5.84	0.02	2.61	0.02	0.06
6	CO754	Connected member	-6.56	0	-0.16	0	0.05
	CO754	Main member	5.83	0.02	2.61	0.02	0.05
6	CO755	Connected member	-4.57	0	-0.18	-0.06	0.04
	CO755	Main member	4.11	0.02	1.64	0.07	0.05
6	CO756	Connected member	-4.57	0	-0.18	-0.06	0.04
	CO756	Main member	4.1	0.01	1.64	0.07	0.04
6	CO757	Connected member	-2.63	-0.02	-0.18	-0.07	-0.02
	CO757	Main member	2.35	0	1.54	0.08	-0.07
6	CO758	Connected member	3.72	0.01	-0.22	-0.2	-0.27
	CO758	Main member	-3.08	-0.03	-0.1	0.2	-0.17
6	CO759	Connected member	-0.54	-0.01	-0.19	-0.08	-0.01
	CO759	Main member	0.46	0	1.18	0.09	-0.18
6	CO760	Connected member	-0.2	-0.03	-0.19	-0.1	-0.03
	CO760	Main member	0.39	0.08	1.3	0.12	0
6	CO761	Connected member	-3.09	0.01	-0.18	-0.05	0
	CO761	Main member	2.84	0.04	1.73	0.06	-0.05
6	CO762	Connected member	3.06	-0.04	-0.2	-0.11	-0.07
	CO762	Main member	-2.39	0.08	0.69	0.12	0
6	CO763	Connected member	2.99	-0.04	-0.2	-0.1	-0.11
	CO763	Main member	-2.33	0.05	0.74	0.11	-0.03
6	CO764	Connected member	3.83	-0.01	-0.22	-0.19	-0.15
	CO764	Main member	-3.19	0	-0.42	0.19	-0.09
6	CO765	Connected member	-2.63	-0.02	-0.18	-0.07	-0.02
	CO765	Main member	2.33	-0.02	1.54	0.08	-0.1
6	CO766	Connected member	-2.63	-0.02	-0.18	-0.07	-0.02
	CO766	Main member	2.34	-0.01	1.54	0.08	-0.08
6	CO767	Connected member	3.72	0.01	-0.22	-0.2	-0.27
	CO767	Main member	-3.09	-0.03	-0.11	0.2	-0.18
6	CO768	Connected member	-0.54	-0.01	-0.19	-0.08	-0.01
	CO768	Main member	0.45	-0.01	1.18	0.09	-0.19
6	CO769	Connected member	-0.2	-0.03	-0.19	-0.1	-0.03
	CO769	Main member	0.39	0.07	1.3	0.12	-0.01
6	CO770	Connected member	-3.09	0.01	-0.18	-0.05	0
	CO770	Main member	2.83	0.04	1.73	0.06	-0.06
6	CO771	Connected member	3.07	-0.04	-0.2	-0.11	-0.07
	CO771	Main member	-2.4	0.08	0.69	0.12	-0.01
6	CO772	Connected member	2.99	-0.04	-0.2	-0.1	-0.11
	CO772	Main member	-2.34	0.05	0.74	0.11	-0.04
6	CO773	Connected member	3.83	-0.01	-0.22	-0.19	-0.15
	CO773	Main member	-3.2	-0.01	-0.42	0.19	-0.1
6	CO774	Connected member	-2.63	-0.02	-0.18	-0.07	-0.02
	CO774	Main member	2.33	-0.02	1.54	0.08	-0.11
6	CO775	Connected member	-3.17	-0.02	-0.18	-0.05	-0.02
	CO775	Main member	2.82	0	1.81	0.06	-0.06
6	CO776	Connected member	3.18	0.01	-0.22	-0.18	-0.26
	CO776	Main member	-2.62	-0.03	0.16	0.18	-0.17
6	CO777	Connected member	-1.08	-0.01	-0.18	-0.06	-0.01
	CO777	Main member	0.92	0	1.44	0.08	-0.18
6	CO778	Connected member	-0.74	-0.03	-0.19	-0.09	-0.03
	CO778	Main member	0.86	0.08	1.56	0.1	0
6	CO779	Connected member	-3.63	0.01	-0.17	-0.03	0.01
	CO779	Main member	3.3	0.04	2	0.04	-0.05
6	CO780	Connected member	2.52	-0.04	-0.19	-0.09	-0.06
	CO780	Main member	-1.92	0.08	0.96	0.1	0.01
6	CO781	Connected member	2.45	-0.04	-0.19	-0.09	-0.1
	CO781	Main member	-1.86	0.05	1.01	0.1	-0.03
6	CO782	Connected member	3.29	-0.01	-0.22	-0.17	-0.15
	CO782	Main member	-2.72	0	-0.15	0.18	-0.09
6	CO783	Connected member	-3.17	-0.02	-0.18	-0.05	-0.02
	CO783	Main member	2.8	-0.02	1.81	0.07	-0.1
6	CO784	Connected member	-3.17	-0.02	-0.18	-0.05	-0.02
	CO784	Main member	2.81	-0.01	1.81	0.06	-0.07
6	CO785	Connected member	3.18	0.01	-0.22	-0.18	-0.26
	CO785	Main member	-2.62	-0.03	0.16	0.18	-0.18
6	CO786	Connected member	-1.08	-0.01	-0.18	-0.06	-0.01
	CO786	Main member	0.92	-0.01	1.44	0.08	-0.19
6	CO787	Connected member	-0.74	-0.03	-0.19	-0.09	-0.03
	CO787	Main member	0.85	0.08	1.56	0.1	-0.01
6	CO788	Connected member	-3.63	0.01	-0.17	-0.03	0.01
	CO788	Main member	3.3	0.04	2	0.04	-0.06
6	CO789	Connected member	2.53	-0.04	-0.19	-0.09	-0.06
	CO789	Main member	-1.93	0.08	0.96	0.1	0
6	CO790	Connected member	2.45	-0.04	-0.19	-0.09	-0.1
	CO790	Main member	-1.87	0.05	1.01	0.1	-0.04
6	CO791	Connected member	3.29	-0.01	-0.22	-0.17	-0.15
	CO791	Main member	-2.73	-0.01	-0.15	0.18	-0.1
6	CO792	Connected member	-3.17	-0.02	-0.18	-0.05	-0.02
	CO792	Main member	2.79	-0.02	1.81	0.07	-0.11
6	CO793	Connected member	-1.19	-0.02	-0.19	-0.11	-0.02
	CO793	Main member	1.09	-0.01	0.83	0.11	-0.08
6	CO794	Connected member	5.17	0.02	-0.24	-0.24	-0.28
	CO794	Main member	-4.34	-0.03	-0.82	0.23	-0.18
6	CO795	Connected member	0.91	-0.01	-0.2	-0.12	-0.02
	CO795	Main member	-0.81	-0.01	0.47	0.13	-0.19



::LAVteam::

Page: 182/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO796	Connected member	1.25	-0.03	-0.21	-0.14	-0.04
	CO796	Main member	-0.87	0.07	0.59	0.15	-0.01
6	CO797	Connected member	-1.64	0.01	-0.19	-0.09	0
	CO797	Main member	1.57	0.04	1.02	0.09	-0.06
6	CO798	Connected member	4.51	-0.03	-0.21	-0.15	-0.07
	CO798	Main member	-3.65	0.08	-0.02	0.15	-0.01
6	CO799	Connected member	4.43	-0.03	-0.21	-0.15	-0.11
	CO799	Main member	-3.59	0.05	0.03	0.15	-0.04
6	CO800	Connected member	5.28	-0.01	-0.24	-0.23	-0.16
	CO800	Main member	-4.45	-0.01	-1.13	0.23	-0.1
6	CO801	Connected member	-1.18	-0.02	-0.19	-0.11	-0.03
	CO801	Main member	1.07	-0.02	0.83	0.11	-0.11
6	CO802	Connected member	-1.18	-0.02	-0.19	-0.11	-0.02
	CO802	Main member	1.08	-0.01	0.83	0.11	-0.09
6	CO803	Connected member	5.17	0.02	-0.24	-0.24	-0.28
	CO803	Main member	-4.35	-0.04	-0.82	0.23	-0.19
6	CO804	Connected member	0.91	-0.01	-0.2	-0.12	-0.02
	CO804	Main member	-0.81	-0.01	0.47	0.13	-0.2
6	CO805	Connected member	1.25	-0.03	-0.21	-0.14	-0.04
	CO805	Main member	-0.88	0.07	0.59	0.15	-0.02
6	CO806	Connected member	-1.64	0.01	-0.19	-0.09	0
	CO806	Main member	1.57	0.04	1.02	0.09	-0.07
6	CO807	Connected member	4.51	-0.04	-0.21	-0.15	-0.07
	CO807	Main member	-3.66	0.07	-0.02	0.15	-0.02
6	CO808	Connected member	4.44	-0.03	-0.21	-0.15	-0.11
	CO808	Main member	-3.6	0.04	0.03	0.15	-0.05
6	CO809	Connected member	5.28	-0.01	-0.24	-0.23	-0.16
	CO809	Main member	-4.46	-0.01	-1.13	0.23	-0.11
6	CO810	Connected member	-1.18	-0.02	-0.19	-0.11	-0.03
	CO810	Main member	1.06	-0.02	0.83	0.11	-0.12
6	CO811	Connected member	-0.65	-0.02	-0.2	-0.12	-0.03
	CO811	Main member	0.62	-0.01	0.57	0.13	-0.08
6	CO812	Connected member	5.71	0.02	-0.25	-0.25	-0.28
	CO812	Main member	-4.81	-0.04	-1.08	0.25	-0.18
6	CO813	Connected member	1.45	-0.01	-0.21	-0.14	-0.02
	CO813	Main member	-1.28	-0.01	0.2	0.14	-0.19
6	CO814	Connected member	1.79	-0.03	-0.21	-0.16	-0.04
	CO814	Main member	-1.34	0.07	0.32	0.17	-0.01
6	CO815	Connected member	-1.11	0.01	-0.19	-0.1	0
	CO815	Main member	1.1	0.04	0.76	0.11	-0.07
6	CO816	Connected member	5.05	-0.03	-0.22	-0.17	-0.08
	CO816	Main member	-4.12	0.08	-0.28	0.17	-0.01
6	CO817	Connected member	4.97	-0.03	-0.21	-0.16	-0.12
	CO817	Main member	-4.06	0.04	-0.23	0.16	-0.05
6	CO818	Connected member	5.82	-0.01	-0.24	-0.25	-0.16
	CO818	Main member	-4.92	-0.01	-1.39	0.24	-0.11
6	CO819	Connected member	-0.64	-0.02	-0.2	-0.12	-0.03
	CO819	Main member	0.6	-0.02	0.57	0.13	-0.11
6	CO820	Connected member	-0.64	-0.02	-0.2	-0.12	-0.03
	CO820	Main member	0.61	-0.01	0.57	0.13	-0.09
6	CO821	Connected member	5.71	0.02	-0.25	-0.25	-0.28
	CO821	Main member	-4.82	-0.04	-1.08	0.25	-0.19
6	CO822	Connected member	1.45	-0.01	-0.21	-0.14	-0.02
	CO822	Main member	-1.28	-0.01	0.2	0.14	-0.21
6	CO823	Connected member	1.79	-0.03	-0.21	-0.16	-0.04
	CO823	Main member	-1.35	0.07	0.32	0.17	-0.02
6	CO824	Connected member	-1.1	0.01	-0.19	-0.1	0
	CO824	Main member	1.1	0.03	0.76	0.11	-0.08
6	CO825	Connected member	5.05	-0.03	-0.22	-0.17	-0.08
	CO825	Main member	-4.13	0.07	-0.28	0.17	-0.02
6	CO826	Connected member	4.98	-0.03	-0.21	-0.16	-0.12
	CO826	Main member	-4.07	0.04	-0.23	0.16	-0.06
6	CO827	Connected member	5.82	-0.01	-0.24	-0.25	-0.16
	CO827	Main member	-4.93	-0.01	-1.39	0.24	-0.12
6	CO828	Connected member	-0.64	-0.02	-0.2	-0.13	-0.03
	CO828	Main member	0.59	-0.02	0.57	0.13	-0.12
6	CO829	Connected member	3.41	-0.03	-0.23	-0.21	-0.08
	CO829	Main member	-2.96	-0.03	-0.85	0.21	-0.17
6	CO830	Connected member	14	0.05	-0.32	-0.44	-0.51
	CO830	Main member	-12.01	-0.09	-3.61	0.41	-0.36
6	CO831	Connected member	6.9	-0.01	-0.24	-0.23	-0.08
	CO831	Main member	-6.12	-0.03	-1.46	0.23	-0.37
6	CO832	Connected member	7.47	-0.04	-0.25	-0.27	-0.12
	CO832	Main member	-6.22	0.1	-1.26	0.27	-0.07
6	CO833	Connected member	2.64	0.02	-0.22	-0.18	-0.04
	CO833	Main member	-2.15	0.05	-0.53	0.17	-0.15
6	CO834	Connected member	12.91	-0.04	-0.26	-0.29	-0.18
	CO834	Main member	-10.86	0.1	-2.28	0.28	-0.07
6	CO835	Connected member	12.78	-0.04	-0.26	-0.28	-0.25
	CO835	Main member	-10.76	0.05	-2.19	0.27	-0.13
6	CO836	Connected member	14.19	0.01	-0.32	-0.43	-0.31
	CO836	Main member	-12.19	-0.04	-4.13	0.4	-0.23
6	CO837	Connected member	3.41	-0.03	-0.23	-0.21	-0.08
	CO837	Main member	-2.99	-0.05	-0.85	0.21	-0.23
6	CO838	Connected member	1.42	-0.03	-0.21	-0.15	-0.07
	CO838	Main member	-1.23	-0.02	0.12	0.15	-0.16
6	CO839	Connected member	12.01	0.04	-0.29	-0.37	-0.5
	CO839	Main member	-10.28	-0.08	-2.63	0.36	-0.34
6	CO840	Connected member	4.91	-0.02	-0.22	-0.18	-0.07
	CO840	Main member	-4.39	-0.03	-0.48	0.18	-0.36
6	CO841	Connected member	5.48	-0.04	-0.23	-0.21	-0.1
	CO841	Main member	-4.49	0.11	-0.28	0.22	-0.05
6	CO842	Connected member	0.66	0.01	-0.2	-0.12	-0.03
	CO842	Main member	-0.42	0.05	0.44	0.12	-0.14



::LAV/team::

Page: 183/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO843	Connected member	10.92	-0.05	-0.24	-0.23	-0.17
	CO843	Main member	-9.13	0.11	-1.3	0.22	-0.05
6	CO844	Connected member	10.79	-0.04	-0.24	-0.22	-0.23
	CO844	Main member	-9.03	0.06	-1.21	0.22	-0.11
6	CO845	Connected member	12.2	0	-0.29	-0.37	-0.3
	CO845	Main member	-10.46	-0.03	-3.15	0.35	-0.21
6	CO846	Connected member	1.43	-0.03	-0.21	-0.15	-0.07
	CO846	Main member	-1.26	-0.04	0.13	0.16	-0.22
6	CO847	Connected member	0.88	-0.03	-0.2	-0.14	-0.07
	CO847	Main member	-0.76	-0.02	0.39	0.14	-0.16
6	CO848	Connected member	11.47	0.04	-0.29	-0.36	-0.5
	CO848	Main member	-9.81	-0.07	-2.37	0.35	-0.34
6	CO849	Connected member	4.37	-0.02	-0.21	-0.16	-0.06
	CO849	Main member	-3.92	-0.03	-0.22	0.16	-0.35
6	CO850	Connected member	4.94	-0.04	-0.23	-0.19	-0.1
	CO850	Main member	-4.02	0.11	-0.02	0.21	-0.05
6	CO851	Connected member	0.12	0.01	-0.19	-0.1	-0.03
	CO851	Main member	0.05	0.06	0.71	0.11	-0.13
6	CO852	Connected member	10.38	-0.05	-0.23	-0.21	-0.16
	CO852	Main member	-8.66	0.11	-1.03	0.21	-0.05
6	CO853	Connected member	10.25	-0.05	-0.23	-0.2	-0.23
	CO853	Main member	-8.56	0.06	-0.95	0.2	-0.11
6	CO854	Connected member	11.66	0	-0.28	-0.35	-0.3
	CO854	Main member	-9.99	-0.03	-2.88	0.34	-0.21
6	CO855	Connected member	0.89	-0.03	-0.2	-0.14	-0.07
	CO855	Main member	-0.79	-0.04	0.39	0.14	-0.22
6	CO856	Connected member	2.87	-0.03	-0.22	-0.2	-0.08
	CO856	Main member	-2.49	-0.03	-0.59	0.19	-0.17
6	CO857	Connected member	13.46	0.05	-0.31	-0.42	-0.51
	CO857	Main member	-11.54	-0.08	-3.35	0.4	-0.35
6	CO858	Connected member	6.36	-0.01	-0.24	-0.22	-0.07
	CO858	Main member	-5.65	-0.03	-1.19	0.21	-0.37
6	CO859	Connected member	6.93	-0.04	-0.25	-0.25	-0.11
	CO859	Main member	-5.75	0.1	-0.99	0.26	-0.06
6	CO860	Connected member	2.11	0.02	-0.21	-0.16	-0.04
	CO860	Main member	-1.68	0.05	-0.27	0.16	-0.15
6	CO861	Connected member	12.37	-0.04	-0.26	-0.27	-0.18
	CO861	Main member	-10.39	0.1	-2.01	0.26	-0.07
6	CO862	Connected member	12.24	-0.04	-0.25	-0.26	-0.24
	CO862	Main member	-10.29	0.05	-1.93	0.25	-0.12
6	CO863	Connected member	13.65	0	-0.31	-0.41	-0.31
	CO863	Main member	-11.72	-0.04	-3.86	0.39	-0.22
6	CO864	Connected member	2.88	-0.03	-0.22	-0.2	-0.08
	CO864	Main member	-2.52	-0.05	-0.59	0.19	-0.23
6	CO865	Connected member	0.52	-0.03	-0.2	-0.13	-0.07
	CO865	Main member	-0.45	-0.02	0.57	0.13	-0.16
6	CO866	Connected member	11.12	0.04	-0.28	-0.35	-0.5
	CO866	Main member	-9.5	-0.07	-2.19	0.34	-0.34
6	CO867	Connected member	4.01	-0.02	-0.21	-0.15	-0.06
	CO867	Main member	-3.6	-0.03	-0.04	0.15	-0.35
6	CO868	Connected member	4.58	-0.04	-0.22	-0.18	-0.1
	CO868	Main member	-3.71	0.11	0.16	0.2	-0.05
6	CO869	Connected member	-0.24	0.01	-0.19	-0.09	-0.03
	CO869	Main member	0.36	0.06	0.88	0.1	-0.13
6	CO870	Connected member	10.02	-0.05	-0.23	-0.2	-0.16
	CO870	Main member	-8.35	0.11	-0.86	0.2	-0.05
6	CO871	Connected member	9.89	-0.05	-0.23	-0.19	-0.23
	CO871	Main member	-8.25	0.06	-0.77	0.19	-0.11
6	CO872	Connected member	11.3	0	-0.28	-0.34	-0.3
	CO872	Main member	-9.68	-0.03	-2.71	0.33	-0.21
6	CO873	Connected member	0.53	-0.03	-0.2	-0.13	-0.07
	CO873	Main member	-0.48	-0.04	0.57	0.13	-0.21
6	CO874	Connected member	0.52	-0.03	-0.2	-0.13	-0.07
	CO874	Main member	-0.45	-0.02	0.57	0.13	-0.16
6	CO875	Connected member	11.12	0.04	-0.28	-0.35	-0.5
	CO875	Main member	-9.5	-0.08	-2.19	0.34	-0.34
6	CO876	Connected member	4.01	-0.02	-0.21	-0.15	-0.06
	CO876	Main member	-3.61	-0.03	-0.04	0.15	-0.36
6	CO877	Connected member	4.58	-0.04	-0.22	-0.18	-0.1
	CO877	Main member	-3.71	0.11	0.16	0.2	-0.05
6	CO878	Connected member	-0.24	0.01	-0.19	-0.09	-0.03
	CO878	Main member	0.36	0.05	0.88	0.1	-0.14
6	CO879	Connected member	10.02	-0.05	-0.23	-0.2	-0.16
	CO879	Main member	-8.35	0.11	-0.86	0.2	-0.05
6	CO880	Connected member	9.89	-0.05	-0.23	-0.19	-0.23
	CO880	Main member	-8.25	0.06	-0.77	0.19	-0.11
6	CO881	Connected member	11.3	0	-0.28	-0.34	-0.3
	CO881	Main member	-9.68	-0.03	-2.71	0.33	-0.21
6	CO882	Connected member	0.53	-0.03	-0.2	-0.13	-0.07
	CO882	Main member	-0.48	-0.04	0.57	0.13	-0.22
6	CO883	Connected member	-0.02	-0.03	-0.2	-0.11	-0.07
	CO883	Main member	0.02	-0.02	0.83	0.12	-0.15
6	CO884	Connected member	10.58	0.04	-0.28	-0.33	-0.49
	CO884	Main member	-9.03	-0.07	-1.92	0.32	-0.33
6	CO885	Connected member	3.47	-0.02	-0.21	-0.13	-0.06
	CO885	Main member	-3.13	-0.02	0.22	0.14	-0.35
6	CO886	Connected member	4.04	-0.04	-0.22	-0.17	-0.1
	CO886	Main member	-3.24	0.11	0.42	0.18	-0.04
6	CO887	Connected member	-0.78	0.01	-0.19	-0.08	-0.03
	CO887	Main member	0.83	0.06	1.15	0.08	-0.13
6	CO888	Connected member	9.48	-0.05	-0.22	-0.18	-0.16
	CO888	Main member	-7.88	0.12	-0.59	0.19	-0.05
6	CO889	Connected member	9.35	-0.05	-0.22	-0.17	-0.22
	CO889	Main member	-7.78	0.06	-0.51	0.18	-0.1



::LAV/team::

Page: 184/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO890	Connected member	10.76	0	-0.27	-0.32	-0.29
	CO890	Main member	-9.21	-0.03	-2.44	0.31	-0.2
6	CO891	Connected member	-0.01	-0.03	-0.2	-0.11	-0.07
	CO891	Main member	-0.01	-0.04	0.83	0.12	-0.21
6	CO892	Connected member	-0.02	-0.03	-0.2	-0.11	-0.07
	CO892	Main member	0.02	-0.02	0.83	0.12	-0.16
6	CO893	Connected member	10.58	0.04	-0.28	-0.33	-0.49
	CO893	Main member	-9.03	-0.07	-1.92	0.32	-0.34
6	CO894	Connected member	3.47	-0.02	-0.21	-0.13	-0.06
	CO894	Main member	-3.14	-0.03	0.22	0.14	-0.35
6	CO895	Connected member	4.04	-0.04	-0.22	-0.17	-0.1
	CO895	Main member	-3.24	0.11	0.42	0.18	-0.05
6	CO896	Connected member	-0.78	0.01	-0.19	-0.08	-0.03
	CO896	Main member	0.83	0.06	1.15	0.08	-0.14
6	CO897	Connected member	9.48	-0.05	-0.22	-0.18	-0.16
	CO897	Main member	-7.88	0.11	-0.59	0.19	-0.05
6	CO898	Connected member	9.35	-0.05	-0.22	-0.17	-0.22
	CO898	Main member	-7.78	0.06	-0.51	0.18	-0.11
6	CO899	Connected member	10.76	0	-0.27	-0.32	-0.29
	CO899	Main member	-9.21	-0.03	-2.44	0.31	-0.21
6	CO900	Connected member	-0.01	-0.03	-0.2	-0.11	-0.07
	CO900	Main member	-0.01	-0.04	0.83	0.12	-0.22
6	CO901	Connected member	1.97	-0.03	-0.21	-0.17	-0.08
	CO901	Main member	-1.71	-0.02	-0.15	0.17	-0.17
6	CO902	Connected member	12.56	0.05	-0.3	-0.39	-0.51
	CO902	Main member	-10.76	-0.08	-2.9	0.38	-0.35
6	CO903	Connected member	5.46	-0.01	-0.23	-0.19	-0.07
	CO903	Main member	-4.86	-0.03	-0.75	0.19	-0.36
6	CO904	Connected member	6.03	-0.04	-0.24	-0.23	-0.11
	CO904	Main member	-4.97	0.1	-0.55	0.23	-0.06
6	CO905	Connected member	1.21	0.01	-0.21	-0.14	-0.04
	CO905	Main member	-0.9	0.05	0.17	0.13	-0.14
6	CO906	Connected member	11.47	-0.05	-0.25	-0.24	-0.17
	CO906	Main member	-9.61	0.11	-1.57	0.24	-0.06
6	CO907	Connected member	11.34	-0.04	-0.24	-0.23	-0.24
	CO907	Main member	-9.51	0.05	-1.48	0.23	-0.12
6	CO908	Connected member	12.75	0	-0.3	-0.38	-0.3
	CO908	Main member	-10.94	-0.04	-3.42	0.37	-0.22
6	CO909	Connected member	1.98	-0.03	-0.21	-0.17	-0.08
	CO909	Main member	-1.74	-0.05	-0.14	0.17	-0.22
6	CO910	Connected member	1.97	-0.03	-0.21	-0.17	-0.08
	CO910	Main member	-1.71	-0.03	-0.15	0.17	-0.17
6	CO911	Connected member	12.56	0.05	-0.3	-0.39	-0.51
	CO911	Main member	-10.76	-0.08	-2.9	0.38	-0.35
6	CO912	Connected member	5.46	-0.01	-0.23	-0.19	-0.07
	CO912	Main member	-4.87	-0.03	-0.75	0.19	-0.37
6	CO913	Connected member	6.03	-0.04	-0.24	-0.23	-0.11
	CO913	Main member	-4.97	0.1	-0.55	0.23	-0.06
6	CO914	Connected member	1.21	0.01	-0.21	-0.14	-0.04
	CO914	Main member	-0.9	0.05	0.17	0.13	-0.15
6	CO915	Connected member	11.47	-0.05	-0.25	-0.24	-0.17
	CO915	Main member	-9.61	0.1	-1.57	0.24	-0.07
6	CO916	Connected member	11.34	-0.04	-0.24	-0.23	-0.24
	CO916	Main member	-9.51	0.05	-1.48	0.23	-0.12
6	CO917	Connected member	12.75	0	-0.3	-0.38	-0.3
	CO917	Main member	-10.94	-0.04	-3.42	0.37	-0.22
6	CO918	Connected member	1.98	-0.03	-0.21	-0.17	-0.08
	CO918	Main member	-1.74	-0.05	-0.14	0.17	-0.23
6	CO919	Connected member	2.51	-0.03	-0.22	-0.18	-0.08
	CO919	Main member	-2.18	-0.02	-0.41	0.18	-0.17
6	CO920	Connected member	13.1	0.05	-0.31	-0.41	-0.51
	CO920	Main member	-11.23	-0.08	-3.17	0.39	-0.35
6	CO921	Connected member	6	-0.01	-0.23	-0.21	-0.07
	CO921	Main member	-5.33	-0.03	-1.02	0.2	-0.37
6	CO922	Connected member	6.57	-0.04	-0.24	-0.24	-0.11
	CO922	Main member	-5.44	0.1	-0.82	0.25	-0.06
6	CO923	Connected member	1.75	0.02	-0.21	-0.15	-0.04
	CO923	Main member	-1.37	0.05	-0.09	0.15	-0.15
6	CO924	Connected member	12.01	-0.04	-0.25	-0.26	-0.17
	CO924	Main member	-10.08	0.1	-1.83	0.25	-0.06
6	CO925	Connected member	11.88	-0.04	-0.25	-0.25	-0.24
	CO925	Main member	-9.97	0.05	-1.75	0.25	-0.12
6	CO926	Connected member	13.29	0	-0.3	-0.4	-0.31
	CO926	Main member	-11.41	-0.04	-3.69	0.38	-0.22
6	CO927	Connected member	2.52	-0.03	-0.22	-0.19	-0.08
	CO927	Main member	-2.21	-0.05	-0.41	0.18	-0.23
6	CO928	Connected member	2.51	-0.03	-0.22	-0.19	-0.08
	CO928	Main member	-2.18	-0.03	-0.41	0.18	-0.17
6	CO929	Connected member	13.1	0.05	-0.31	-0.41	-0.51
	CO929	Main member	-11.23	-0.08	-3.17	0.39	-0.36
6	CO930	Connected member	6	-0.01	-0.23	-0.21	-0.07
	CO930	Main member	-5.34	-0.03	-1.02	0.2	-0.37
6	CO931	Connected member	6.57	-0.04	-0.24	-0.24	-0.11
	CO931	Main member	-5.44	0.1	-0.82	0.25	-0.07
6	CO932	Connected member	1.75	0.02	-0.21	-0.15	-0.04
	CO932	Main member	-1.37	0.05	-0.09	0.15	-0.15
6	CO933	Connected member	12.01	-0.04	-0.25	-0.26	-0.17
	CO933	Main member	-10.08	0.1	-1.83	0.25	-0.07
6	CO934	Connected member	11.88	-0.04	-0.25	-0.25	-0.24
	CO934	Main member	-9.98	0.05	-1.75	0.25	-0.13
6	CO935	Connected member	13.29	0	-0.3	-0.4	-0.31
	CO935	Main member	-11.41	-0.04	-3.69	0.38	-0.23
6	CO936	Connected member	2.52	-0.03	-0.22	-0.19	-0.08
	CO936	Main member	-2.21	-0.05	-0.41	0.18	-0.23



::LAV/team::

Page: 185/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO937	Connected member	-2.23	0	-0.2	-0.12	0.03
	CO937	Main member	2.07	0.01	0.49	0.12	0.04
6	CO938	Connected member	-4.22	0	-0.18	-0.07	0.04
	CO938	Main member	3.81	0.02	1.46	0.07	0.05
6	CO939	Connected member	-4.76	0	-0.18	-0.05	0.04
	CO939	Main member	4.28	0.02	1.73	0.06	0.06
6	CO940	Connected member	-2.77	0	-0.19	-0.11	0.04
	CO940	Main member	2.54	0.01	0.75	0.11	0.04
6	CO941	Connected member	-2.59	0	-0.2	-0.11	0.04
	CO941	Main member	2.39	0.01	0.67	0.11	0.04
6	CO942	Connected member	-2.59	0	-0.2	-0.11	0.04
	CO942	Main member	2.39	0.01	0.67	0.11	0.04
6	CO943	Connected member	-4.58	0	-0.18	-0.06	0.04
	CO943	Main member	4.12	0.02	1.64	0.07	0.06
6	CO944	Connected member	-4.58	0	-0.18	-0.06	0.04
	CO944	Main member	4.12	0.02	1.64	0.07	0.05
6	CO945	Connected member	-5.12	0	-0.17	-0.04	0.05
	CO945	Main member	4.59	0.02	1.91	0.05	0.06
6	CO946	Connected member	-5.12	0	-0.17	-0.04	0.05
	CO946	Main member	4.59	0.02	1.9	0.05	0.06
6	CO947	Connected member	-3.13	0	-0.19	-0.1	0.04
	CO947	Main member	2.86	0.01	0.93	0.1	0.05
6	CO948	Connected member	-3.13	0	-0.19	-0.1	0.04
	CO948	Main member	2.86	0.01	0.93	0.1	0.04
6	CO949	Connected member	-1.11	-0.01	-0.2	-0.14	0.01
	CO949	Main member	1.07	0.01	0.22	0.14	0
6	CO950	Connected member	1.01	0	-0.22	-0.19	-0.07
	CO950	Main member	-0.74	0	-0.33	0.18	-0.04
6	CO951	Connected member	-0.41	0	-0.21	-0.15	0.01
	CO951	Main member	0.44	0	0.1	0.14	-0.04
6	CO952	Connected member	-0.29	-0.01	-0.21	-0.15	0.01
	CO952	Main member	0.42	0.03	0.14	0.15	0.02
6	CO953	Connected member	-1.26	0	-0.2	-0.14	0.02
	CO953	Main member	1.23	0.02	0.29	0.13	0
6	CO954	Connected member	0.79	-0.01	-0.21	-0.16	0
	CO954	Main member	-0.51	0.03	-0.06	0.15	0.02
6	CO955	Connected member	0.77	-0.01	-0.21	-0.15	-0.02
	CO955	Main member	-0.49	0.02	-0.04	0.15	0.01
6	CO956	Connected member	1.05	0	-0.22	-0.18	-0.03
	CO956	Main member	-0.78	0.01	-0.43	0.18	-0.01
6	CO957	Connected member	-1.11	-0.01	-0.2	-0.14	0.01
	CO957	Main member	1.06	0	0.22	0.14	-0.01
6	CO958	Connected member	-3.09	-0.01	-0.19	-0.08	0.02
	CO958	Main member	2.8	0.01	1.2	0.09	0.01
6	CO959	Connected member	-0.98	0	-0.2	-0.13	-0.06
	CO959	Main member	0.99	0	0.65	0.13	-0.02
6	CO960	Connected member	-2.4	-0.01	-0.19	-0.09	0.02
	CO960	Main member	2.17	0.01	1.08	0.09	-0.03
6	CO961	Connected member	-2.28	-0.01	-0.19	-0.1	0.02
	CO961	Main member	2.15	0.04	1.12	0.1	0.03
6	CO962	Connected member	-3.25	0	-0.18	-0.08	0.03
	CO962	Main member	2.96	0.02	1.26	0.08	0.02
6	CO963	Connected member	-1.19	-0.01	-0.19	-0.1	0.01
	CO963	Main member	1.22	0.04	0.91	0.1	0.04
6	CO964	Connected member	-1.22	-0.01	-0.19	-0.1	-0.01
	CO964	Main member	1.24	0.03	0.93	0.1	0.02
6	CO965	Connected member	-0.94	-0.01	-0.2	-0.13	-0.02
	CO965	Main member	0.95	0.01	0.54	0.13	0
6	CO966	Connected member	-3.09	-0.01	-0.19	-0.09	0.02
	CO966	Main member	2.79	0.01	1.2	0.09	0
6	CO967	Connected member	-3.63	-0.01	-0.18	-0.07	0.02
	CO967	Main member	3.27	0.01	1.46	0.08	0.01
6	CO968	Connected member	-1.52	0	-0.2	-0.11	-0.06
	CO968	Main member	1.46	0	0.91	0.12	-0.02
6	CO969	Connected member	-2.94	-0.01	-0.18	-0.07	0.02
	CO969	Main member	2.64	0.01	1.34	0.08	-0.02
6	CO970	Connected member	-2.82	-0.01	-0.19	-0.08	0.02
	CO970	Main member	2.62	0.04	1.38	0.09	0.04
6	CO971	Connected member	-3.79	0	-0.18	-0.06	0.03
	CO971	Main member	3.43	0.03	1.53	0.07	0.02
6	CO972	Connected member	-1.73	-0.02	-0.19	-0.08	0.01
	CO972	Main member	1.69	0.04	1.18	0.09	0.04
6	CO973	Connected member	-1.76	-0.02	-0.19	-0.08	-0.01
	CO973	Main member	1.71	0.03	1.2	0.09	0.03
6	CO974	Connected member	-1.48	-0.01	-0.19	-0.11	-0.02
	CO974	Main member	1.42	0.01	0.81	0.11	0.01
6	CO975	Connected member	-3.63	-0.01	-0.18	-0.07	0.02
	CO975	Main member	3.26	0.01	1.46	0.08	0
6	CO976	Connected member	-1.65	-0.01	-0.2	-0.13	0.01
	CO976	Main member	1.54	0.01	0.49	0.13	0
6	CO977	Connected member	0.47	0	-0.21	-0.17	-0.07
	CO977	Main member	-0.27	0	-0.06	0.17	-0.03
6	CO978	Connected member	-0.95	0	-0.2	-0.13	0.02
	CO978	Main member	0.91	0.01	0.37	0.13	-0.04
6	CO979	Connected member	-0.83	-0.01	-0.2	-0.14	0.01
	CO979	Main member	0.88	0.03	0.41	0.14	0.02
6	CO980	Connected member	-1.8	0	-0.2	-0.12	0.02
	CO980	Main member	1.7	0.02	0.55	0.12	0.01
6	CO981	Connected member	0.25	-0.01	-0.21	-0.14	0
	CO981	Main member	-0.04	0.03	0.2	0.14	0.02
6	CO982	Connected member	0.23	-0.01	-0.2	-0.14	-0.01
	CO982	Main member	-0.02	0.02	0.22	0.14	0.01
6	CO983	Connected member	0.51	0	-0.21	-0.17	-0.03
	CO983	Main member	-0.31	0.01	-0.17	0.16	-0.01



::LAV/team::

Page: 186/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
6	CO984	Connected member	-1.64	-0.01	-0.2	-0.13	0.01
	CO984	Main member	1.53	0	0.49	0.13	-0.01
6	CO989	Connected member	-2.23	0	-0.2	-0.12	0.03
	CO989	Main member	2.07	0.01	0.49	0.12	0.04
6	CO990	Connected member	-2.23	0	-0.2	-0.12	0.03
	CO990	Main member	2.07	0.01	0.49	0.12	0.04
6	CO991	Connected member	-4.22	0	-0.18	-0.07	0.04
	CO991	Main member	3.81	0.02	1.46	0.07	0.05
6	CO992	Connected member	-4.22	0	-0.18	-0.07	0.04
	CO992	Main member	3.81	0.02	1.46	0.07	0.05
6	CO993	Connected member	-4.76	0	-0.18	-0.05	0.04
	CO993	Main member	4.28	0.02	1.73	0.06	0.06
6	CO994	Connected member	-4.76	0	-0.18	-0.05	0.04
	CO994	Main member	4.28	0.02	1.73	0.06	0.06
6	CO995	Connected member	-2.77	0	-0.19	-0.11	0.04
	CO995	Main member	2.54	0.01	0.75	0.11	0.04
6	CO996	Connected member	-2.77	0	-0.19	-0.11	0.04
	CO996	Main member	2.54	0.01	0.75	0.11	0.04

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Basic Geometry of the Joint			
Main member			
Member			
Length	l	4.36	m
Height	h	280	mm
Thickness	t	260	mm
Cross-Sectional Area	A	728	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	272	mm
Thickness	t	8	mm
Cross-Sectional Area	A	21.76	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	3	
Number of bolt rows (z-direction)	n _{dz}	2	
Distance between bolt columns	a ₁	60	mm
Distance between bolt rows	a ₂	200	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	80	mm
Distance between fastener and edge No. 1	a _{4,1}	40	mm
Distance between fastener and edge No. 2	a _{4,2}	40	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	89.82	MN/m
Slip Modulus for ULS	K _u	46.06	MN/m
Polar moment of inertia	I _p	744	cm ²
Rotation Modulus for SLS	C _{ser}	1.11	MNm/rad
Rotation Modulus for ULS	C _u	0.57	MNm/rad
Bolts			
Total number of bolts		6	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	260	mm
Connected Member No. 1			
Member			
Length	l	4.84	m
Height	h	120	mm
Thickness	t	200	mm
Cross-Sectional Area	A	240	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	72	mm
Thickness	t	8	mm
Cross-Sectional Area	A	5.76	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	3	
Number of bolt rows (z-direction)	n _{dz}	1	
Distance between bolt columns	a ₁	60	mm
Distance between bolt rows	a ₂	0	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	80	mm
Distance between fastener and edge No. 1	a _{4,1}	60	mm
Distance between fastener and edge No. 2	a _{4,2}	60	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	44.91	MN/m
Slip Modulus for ULS	K _u	23.03	MN/m
Polar moment of inertia	I _p	72	cm ²
Rotation Modulus for SLS	C _{ser}	0.11	MNm/rad
Rotation Modulus for ULS	C _u	0.06	MNm/rad
Bolts			
Total number of bolts		3	
Bolt types		1	
Diameter	d	10	mm



::LAV/team::

Page: 187/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Area	A	0.79	cm ²
Length	l	200	mm

2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
Main member				
6	CO524	0.14	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
6	CO524	0.60	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
6	CO524	0.11	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
6	CO524	0.11	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
6	CO524	0.10	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
6	CO524	0.07	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
6	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
6	CO7	0.09	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
6	CO7	0.04	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
6	CO524	0.05	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
6	CO11	0.02	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
6	CO11	0.02	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
6	CO7	0.02	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
6	CO524	0.04	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
6	CO524	0.02	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
Connected Member No. 1				
6	CO11	0.10	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
6	CO206	0.43	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
6	CO524	0.65	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
6	CO524	0.13	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
6	CO206	0.02	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
6	CO206	0.15	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
6	CO206	0.18	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
6	CO996	OK		6510) Bolt group geometry - Minimum spacing between circles (rectangles) and between bolts in circle (rectangle)
6	CO206	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
6	CO319	0.03	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
6	CO524	0.17	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
6	CO524	0.14	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
6	CO524	0.06	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
6	CO518	0.13	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3

1.1 GENERAL DATA

JOINTS CA6

Settings for		Details
Design Standard	National Annex	EN 1995-1-1:2004-11
Type of connection	Input Data	CEN
Comment		JOINTS - Steel to timber - Bolts
		Import from model
		Nudo union correa longitudinal- diagonal longitudinal- pilar central

JOINTS
CA6
Design of Joints



::LAV/team::

Page: 188/337

Sheet: 1

JOINTS

Project: Examples

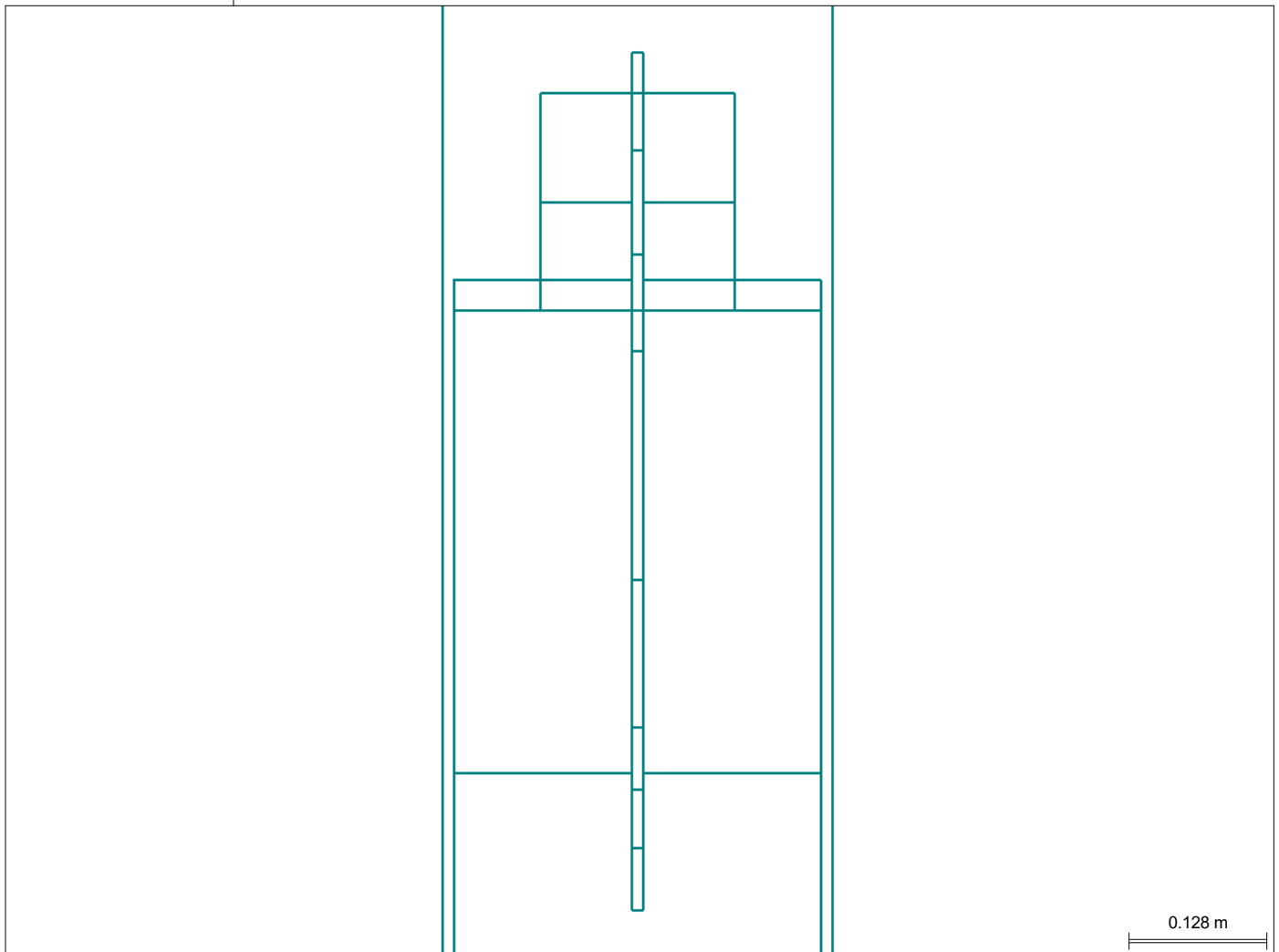
Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

VIEW OF CONNECTION



1.2 NODES AND MEMBERS

Node No.	Member No.	Member Type	Cross-section	Material	Angle [°]
265	1	Main member	T-Rectangle 360/360	Hardwood Timber D70	90.00
	626	Connected member	T-Rectangle 180/200	Glulam Timber GL24h	179.99
	627	Continuous member	T-Rectangle 360/360	Hardwood Timber D70	34.41
	668	Connected member	T-Rectangle 340/300	Glulam Timber GL24h	

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	LC1	Main member	-4.74	-0.01	-0.12	-0.05	-0.11
		Connected member	0.83	0	0.37	-0.3	0
	LC1	Continuous member	-3.3	0.25	-0.12	-0.05	0.19
		Connected member	0.56	0	1.07	0	0
265	CO1	Main member	-6.43	-0.01	-0.16	-0.07	-0.14
		Connected member	1.16	0	0.5	-0.4	0
	CO1	Continuous member	-4.54	0.34	-0.16	-0.07	0.26
		Connected member	0.69	0	1.44	0	0
265	LC2	Main member	-0.12	-0.01	0	-0.06	0.02
		Connected member	0.01	0	0	0	0
	LC2	Continuous member	-0.1	0.02	0	-0.06	0.02
		Connected member	0.02	0	0	0	0
265	CO2	Main member	-6.62	-0.03	-0.17	-0.15	-0.12
		Connected member	1.18	0	0.5	-0.4	-0.01
	CO2	Continuous member	-4.71	0.36	-0.17	-0.14	0.28
		Connected member	0.71	0	1.44	0	0
265	LC3	Main member	0	0	0	-0.02	0.01
		Connected member	0	0	0	0	0
	LC3	Continuous member	0.01	0	0	-0.02	0.01
		Connected member	0.01	0	0	0	0



::LAVteam::

Page: 189/337

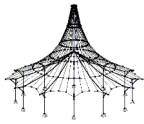
Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO3	Main member	-6.63	-0.03	-0.17	-0.17	-0.11
	CO3	Connected member	1.18	-0.01	0.5	-0.4	-0.01
	CO3	Continuous member	-4.71	0.37	-0.17	-0.16	0.29
	CO3	Connected member	0.72	0	1.44	0	0
265	LC4	Main member	-0.01	-0.02	-0.01	-0.11	0.03
	LC4	Connected member	0.01	0	0	0	-0.01
	LC4	Continuous member	0.04	0.03	-0.01	-0.11	0.03
	LC4	Connected member	0.06	0	0	0	0
265	CO4	Main member	-6.44	-0.02	-0.17	-0.09	-0.13
	CO4	Connected member	1.16	0	0.5	-0.4	-0.01
	CO4	Continuous member	-4.55	0.34	-0.16	-0.09	0.27
	CO4	Connected member	0.7	0	1.44	0	0
265	LC5	Main member	-0.01	-0.01	0	-0.05	0.02
	LC5	Connected member	0.01	0	0	0	0
	LC5	Continuous member	0.02	0.01	0	-0.05	0.02
	LC5	Connected member	0.03	0	0	0	0
265	CO5	Main member	-6.51	-0.04	-0.18	-0.22	-0.09
	CO5	Connected member	1.18	-0.01	0.5	-0.4	-0.01
	CO5	Continuous member	-4.55	0.38	-0.17	-0.22	0.31
	CO5	Connected member	0.77	0	1.44	0	0
265	LC6	Main member	-23.7	-8.57	-0.07	8.24	13.55
	LC6	Connected member	8.04	2.57	-0.16	0.53	1.49
	LC6	Continuous member	-13.94	6.26	-6.82	8.22	13.03
	LC6	Connected member	12.03	4.18	0	0	0
265	CO6	Main member	-6.69	-0.05	-0.18	-0.3	-0.07
	CO6	Connected member	1.2	-0.01	0.5	-0.4	-0.02
	CO6	Continuous member	-4.72	0.41	-0.18	-0.3	0.33
	CO6	Connected member	0.8	0	1.44	0	0
265	LC7	Main member	-27.84	-8.5	-0.06	8.39	13.3
	LC7	Connected member	7.68	2.58	-0.16	0.53	1.5
	LC7	Continuous member	-19.61	4.92	-6.82	8.38	12.77
	LC7	Connected member	10.17	4.18	0	0	0
265	CO7	Main member	-6.7	-0.06	-0.19	-0.32	-0.06
	CO7	Connected member	1.21	-0.01	0.5	-0.4	-0.02
	CO7	Continuous member	-4.72	0.41	-0.18	-0.32	0.34
	CO7	Connected member	0.81	0	1.44	0	0
265	LC8	Main member	19.69	8.69	-0.01	-13.71	-19.94
	LC8	Connected member	-5.01	-4.3	-0.23	0.47	-2.25
	LC8	Continuous member	-4	-12.39	11.07	-13.64	-20.41
	LC8	Connected member	-28.44	-6.78	0	0	0
265	CO8	Main member	-6.52	-0.04	-0.18	-0.24	-0.08
	CO8	Connected member	1.18	-0.01	0.5	-0.4	-0.01
	CO8	Continuous member	-4.55	0.39	-0.17	-0.24	0.32
	CO8	Connected member	0.79	0	1.44	0	0
265	LC9	Main member	19.18	8.72	0	-13.48	-20.09
	LC9	Connected member	-5.74	-4.3	-0.22	0.47	-2.24
	LC9	Continuous member	-5.53	-13.8	11.08	-13.41	-20.56
	LC9	Connected member	-29.69	-6.78	0	0	0
265	CO9	Main member	-6.71	-0.06	-0.19	-0.34	-0.05
	CO9	Connected member	1.21	-0.01	0.5	-0.4	-0.02
	CO9	Continuous member	-4.72	0.42	-0.18	-0.33	0.35
	CO9	Connected member	0.82	0	1.44	0	0
265	CO10	Main member	-7.38	-0.06	-0.19	-0.34	-0.06
	CO10	Connected member	1.26	-0.01	0.5	-0.4	-0.02
	CO10	Continuous member	-5.47	0.41	-0.18	-0.33	0.34
	CO10	Connected member	0.72	0	1.44	0	0
265	CO11	Main member	-6.72	-0.06	-0.19	-0.36	-0.05
	CO11	Connected member	1.21	-0.01	0.5	-0.4	-0.02
	CO11	Continuous member	-4.72	0.42	-0.18	-0.36	0.35
	CO11	Connected member	0.83	0	1.44	0	0
265	CO12	Main member	-7.39	-0.06	-0.19	-0.36	-0.05
	CO12	Connected member	1.26	-0.01	0.5	-0.4	-0.02
	CO12	Continuous member	-5.47	0.42	-0.18	-0.36	0.35
	CO12	Connected member	0.73	0	1.44	0	0
265	LC13	Main member	-0.91	-0.01	-0.01	-0.05	0.01
	LC13	Connected member	0.07	0	0	0	0
	LC13	Continuous member	-0.99	0.01	-0.01	-0.05	0.01
	LC13	Connected member	-0.1	0	0	0	0
265	CO13	Main member	-6.54	-0.05	-0.18	-0.28	-0.07
	CO13	Connected member	1.19	-0.01	0.5	-0.4	-0.02
	CO13	Continuous member	-4.55	0.4	-0.17	-0.28	0.33
	CO13	Connected member	0.81	0	1.44	0	0
265	LC14	Main member	18.41	8.67	0.01	-13.5	-19.89
	LC14	Connected member	-4.73	-4.3	-0.23	0.47	-2.23
	LC14	Continuous member	-5.6	-12.35	11.09	-13.43	-20.36
	LC14	Connected member	-28.83	-6.78	0	0	0
265	CO14	Main member	-7.21	-0.05	-0.18	-0.28	-0.08
	CO14	Connected member	1.24	-0.01	0.5	-0.4	-0.01
	CO14	Continuous member	-5.31	0.4	-0.18	-0.28	0.32
	CO14	Connected member	0.71	0	1.44	0	0
265	LC15	Main member	19.65	8.76	-0.01	-13.49	-20.2
	LC15	Connected member	-6.09	-4.3	-0.22	0.47	-2.24
	LC15	Continuous member	-5.59	-14.46	11.07	-13.42	-20.68
	LC15	Connected member	-30.32	-6.78	0	0	0
265	CO15	Main member	-27.96	-7.83	-0.3	6.98	12.29
	CO15	Connected member	8.53	2.29	0.35	0.09	1.29
	CO15	Continuous member	-17.19	6.11	-6.34	6.97	12.2
	CO15	Connected member	11.65	3.73	1.43	0	0
265	LC16	Main member	10.71	1.54	-0.04	-20.77	-7.34
	LC16	Connected member	-0.65	-6.64	-0.28	0.72	-3.83
	LC16	Continuous member	-2.44	-7.92	17.02	-20.7	-8.06
	LC16	Connected member	-15.61	-10.42	0	0	0
265	CO16	Main member	-31.6	-7.75	-0.29	7.12	12.03
	CO16	Connected member	8.19	2.3	0.35	0.1	1.31



::LAV/team::

Page: 190/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO16	Continuous member	-22.25	4.87	-6.35	7.11	11.93
	CO16	Connected member	9.93	3.73	1.43	0	0
	LC17	Main member	-23.57	-8.53	-0.04	8.37	13.4
	LC17	Connected member	7.55	2.58	-0.16	0.53	1.48
265	LC17	Continuous member	-14.57	5.3	-6.8	8.36	12.87
	LC17	Connected member	11.1	4.18	0	0	0
	CO17	Main member	11.23	7.86	-0.2	-12.6	-18.29
	CO17	Connected member	-3.37	-3.88	0.29	0.06	-2
265	CO17	Continuous member	-8.46	-10.94	9.86	-12.54	-18.35
	CO17	Connected member	-25.19	-6.25	1.47	0	0
	LC18	Main member	-28.19	-8.56	-0.08	8.24	13.5
	LC18	Connected member	8.36	2.58	-0.16	0.53	1.5
265	LC18	Continuous member	-18.96	6.22	-6.84	8.23	12.97
	LC18	Connected member	11.38	4.18	0	0	0
	CO18	Main member	10.74	7.84	-0.19	-12.41	-18.31
	CO18	Connected member	-4.01	-3.88	0.29	0.06	-2
265	CO18	Continuous member	-9.73	-12.14	9.88	-12.34	-18.36
	CO18	Connected member	-26.13	-6.26	1.47	0	0
	CO19	Main member	10.01	7.8	-0.18	-12.42	-18.13
	CO19	Connected member	-3.1	-3.88	0.29	0.06	-1.99
265	CO19	Continuous member	-9.83	-10.83	9.88	-12.36	-18.19
	CO19	Connected member	-25.37	-6.25	1.47	0	0
	CO20	Main member	11.1	7.84	-0.21	-12.42	-18.3
	CO20	Connected member	-4.32	-3.88	0.3	0.05	-2
265	CO20	Continuous member	-9.7	-12.67	9.87	-12.35	-18.35
	CO20	Connected member	-26.54	-6.26	1.47	0	0
	CO21	Main member	3.13	1.32	-0.19	-18.85	-6.61
	CO21	Connected member	0.62	-5.97	0.24	0.28	-3.42
265	CO21	Continuous member	-6.73	-6.71	15.23	-18.79	-6.89
	CO21	Connected member	-13.19	-9.5	1.44	0	0
	CO22	Main member	-27.79	-7.77	-0.28	7.09	12.12
	CO22	Connected member	8.08	2.29	0.35	0.1	1.29
265	CO22	Continuous member	-17.73	5.22	-6.32	7.08	12.03
	CO22	Connected member	10.8	3.73	1.43	0	0
	CO23	Main member	-31.95	-7.81	-0.32	6.99	12.24
	CO23	Connected member	8.82	2.3	0.35	0.1	1.31
265	CO23	Continuous member	-21.68	6.06	-6.36	6.98	12.14
	CO23	Connected member	11.05	3.73	1.43	0	0
	CO24	Main member	-28.63	-7.82	-0.3	6.98	12.28
	CO24	Connected member	8.58	2.29	0.35	0.1	1.29
265	CO24	Continuous member	-17.94	6.1	-6.35	6.97	12.19
	CO24	Connected member	11.55	3.73	1.43	0	0
	CO25	Main member	-32.27	-7.74	-0.3	7.12	12.02
	CO25	Connected member	8.24	2.3	0.35	0.1	1.31
265	CO25	Continuous member	-23.01	4.87	-6.35	7.11	11.92
	CO25	Connected member	9.83	3.73	1.43	0	0
	CO26	Main member	10.55	7.86	-0.21	-12.61	-18.29
	CO26	Connected member	-3.32	-3.88	0.29	0.06	-2
265	CO26	Continuous member	-9.21	-10.94	9.86	-12.54	-18.36
	CO26	Connected member	-25.27	-6.25	1.47	0	0
	CO27	Main member	10.06	7.84	-0.2	-12.41	-18.31
	CO27	Connected member	-3.96	-3.88	0.29	0.06	-2
265	CO27	Continuous member	-10.48	-12.14	9.88	-12.34	-18.37
	CO27	Connected member	-26.22	-6.26	1.47	0	0
	CO28	Main member	9.34	7.8	-0.19	-12.42	-18.13
	CO28	Connected member	-3.05	-3.87	0.29	0.06	-1.99
265	CO28	Continuous member	-10.57	-10.83	9.88	-12.36	-18.19
	CO28	Connected member	-25.46	-6.25	1.47	0	0
	CO29	Main member	10.43	7.84	-0.21	-12.42	-18.3
	CO29	Connected member	-4.26	-3.88	0.3	0.05	-2
265	CO29	Continuous member	-10.45	-12.67	9.86	-12.35	-18.35
	CO29	Connected member	-26.63	-6.26	1.47	0	0
	CO30	Main member	2.46	1.32	-0.19	-18.85	-6.61
	CO30	Connected member	0.67	-5.97	0.25	0.28	-3.42
265	CO30	Continuous member	-7.47	-6.72	15.23	-18.79	-6.89
	CO30	Connected member	-13.28	-9.5	1.44	0	0
	CO31	Main member	-28.47	-7.77	-0.28	7.09	12.12
	CO31	Connected member	8.13	2.29	0.35	0.1	1.29
265	CO31	Continuous member	-18.48	5.22	-6.33	7.09	12.02
	CO31	Connected member	10.7	3.73	1.43	0	0
	CO32	Main member	-32.63	-7.81	-0.32	6.99	12.23
	CO32	Connected member	8.87	2.3	0.35	0.1	1.31
265	CO32	Continuous member	-22.44	6.06	-6.37	6.98	12.13
	CO32	Connected member	10.95	3.73	1.43	0	0
	CO33	Main member	-27.97	-7.83	-0.3	6.96	12.3
	CO33	Connected member	8.54	2.29	0.35	0.1	1.29
265	CO33	Continuous member	-17.19	6.12	-6.34	6.95	12.21
	CO33	Connected member	11.67	3.73	1.43	0	0
	CO34	Main member	-31.62	-7.75	-0.3	7.1	12.04
	CO34	Connected member	8.2	2.3	0.35	0.1	1.3
265	CO34	Continuous member	-22.26	4.88	-6.35	7.09	11.94
	CO34	Connected member	9.94	3.73	1.43	0	0
	CO35	Main member	11.23	7.86	-0.2	-12.62	-18.3
	CO35	Connected member	-3.37	-3.88	0.29	0.06	-2
265	CO35	Continuous member	-8.47	-10.95	9.86	-12.56	-18.37
	CO35	Connected member	-25.2	-6.25	1.47	0	0
	CO36	Main member	10.75	7.84	-0.2	-12.43	-18.32
	CO36	Connected member	-4.02	-3.88	0.29	0.06	-2
265	CO36	Continuous member	-9.73	-12.14	9.88	-12.36	-18.38
	CO36	Connected member	-26.15	-6.26	1.47	0	0
	CO37	Main member	10.02	7.8	-0.19	-12.44	-18.14
	CO37	Connected member	-3.1	-3.88	0.29	0.06	-1.99
265	CO37	Continuous member	-9.83	-10.84	9.88	-12.38	-18.2
	CO37	Connected member	-25.38	-6.25	1.47	0	0



::LAVteam::

Page: 191/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO38	Main member	11.11	7.85	-0.21	-12.44	-18.31
	CO38	Connected member	-4.32	-3.88	0.29	0.05	-2
	CO38	Continuous member	-9.71	-12.68	9.86	-12.37	-18.36
	CO38	Connected member	-26.56	-6.26	1.47	0	0
265	CO39	Main member	3.13	1.32	-0.19	-18.87	-6.61
	CO39	Connected member	0.63	-5.97	0.24	0.28	-3.42
	CO39	Continuous member	-6.73	-6.72	15.23	-18.81	-6.9
	CO39	Connected member	-13.19	-9.5	1.44	0	0
265	CO40	Main member	-27.81	-7.78	-0.28	7.07	12.14
	CO40	Connected member	8.08	2.29	0.35	0.1	1.29
	CO40	Continuous member	-17.73	5.23	-6.33	7.06	12.04
	CO40	Connected member	10.81	3.73	1.43	0	0
265	CO41	Main member	-31.97	-7.82	-0.32	6.97	12.25
	CO41	Connected member	8.83	2.3	0.35	0.1	1.3
	CO41	Continuous member	-21.69	6.07	-6.37	6.96	12.15
	CO41	Connected member	11.06	3.73	1.43	0	0
265	CO42	Main member	-28.64	-7.83	-0.31	6.96	12.29
	CO42	Connected member	8.59	2.29	0.35	0.1	1.29
	CO42	Continuous member	-17.94	6.11	-6.35	6.95	12.2
	CO42	Connected member	11.57	3.73	1.43	0	0
265	CO43	Main member	-32.29	-7.75	-0.3	7.1	12.03
	CO43	Connected member	8.25	2.3	0.35	0.1	1.31
	CO43	Continuous member	-23.01	4.87	-6.35	7.09	11.93
	CO43	Connected member	9.85	3.73	1.43	0	0
265	CO44	Main member	10.56	7.86	-0.21	-12.63	-18.31
	CO44	Connected member	-3.32	-3.88	0.29	0.06	-2
	CO44	Continuous member	-9.22	-10.95	9.86	-12.56	-18.37
	CO44	Connected member	-25.29	-6.25	1.47	0	0
265	CO45	Main member	10.07	7.84	-0.2	-12.43	-18.32
	CO45	Connected member	-3.96	-3.88	0.29	0.06	-2
	CO45	Continuous member	-10.48	-12.14	9.88	-12.36	-18.38
	CO45	Connected member	-26.23	-6.26	1.47	0	0
265	CO46	Main member	9.34	7.8	-0.19	-12.44	-18.15
	CO46	Connected member	-3.05	-3.88	0.29	0.06	-1.99
	CO46	Continuous member	-10.58	-10.84	9.88	-12.38	-18.2
	CO46	Connected member	-25.47	-6.25	1.47	0	0
265	CO47	Main member	10.43	7.84	-0.21	-12.44	-18.31
	CO47	Connected member	-4.26	-3.88	0.29	0.05	-2
	CO47	Continuous member	-10.45	-12.68	9.86	-12.37	-18.36
	CO47	Connected member	-26.65	-6.26	1.47	0	0
265	CO48	Main member	2.46	1.32	-0.19	-18.87	-6.62
	CO48	Connected member	0.68	-5.97	0.24	0.28	-3.42
	CO48	Continuous member	-7.48	-6.72	15.22	-18.81	-6.9
	CO48	Connected member	-13.29	-9.5	1.44	0	0
265	CO49	Main member	-28.48	-7.77	-0.29	7.07	12.13
	CO49	Connected member	8.13	2.29	0.35	0.1	1.29
	CO49	Continuous member	-18.48	5.23	-6.33	7.06	12.03
	CO49	Connected member	10.71	3.73	1.43	0	0
265	CO50	Main member	-32.64	-7.82	-0.32	6.97	12.24
	CO50	Connected member	8.88	2.3	0.35	0.1	1.31
	CO50	Continuous member	-22.44	6.07	-6.37	6.96	12.15
	CO50	Connected member	10.96	3.73	1.43	0	0
265	CO51	Main member	-27.77	-7.81	-0.3	7.03	12.26
	CO51	Connected member	8.51	2.29	0.35	0.09	1.29
	CO51	Continuous member	-17.02	6.09	-6.34	7.03	12.17
	CO51	Connected member	11.63	3.73	1.43	0	0
265	CO52	Main member	-31.42	-7.73	-0.29	7.17	12
	CO52	Connected member	8.17	2.3	0.35	0.1	1.31
	CO52	Continuous member	-22.09	4.85	-6.34	7.16	11.9
	CO52	Connected member	9.91	3.73	1.43	0	0
265	CO53	Main member	11.35	7.85	-0.2	-12.55	-18.26
	CO53	Connected member	-3.38	-3.88	0.29	0.06	-2
	CO53	Continuous member	-8.29	-10.93	9.87	-12.48	-18.32
	CO53	Connected member	-25.13	-6.25	1.47	0	0
265	CO54	Main member	10.87	7.83	-0.19	-12.36	-18.27
	CO54	Connected member	-4.03	-3.88	0.29	0.05	-2
	CO54	Continuous member	-9.55	-12.12	9.88	-12.29	-18.33
	CO54	Connected member	-26.07	-6.26	1.47	0	0
265	CO55	Main member	10.14	7.79	-0.18	-12.37	-18.1
	CO55	Connected member	-3.11	-3.87	0.29	0.05	-1.99
	CO55	Continuous member	-9.65	-10.82	9.88	-12.3	-18.15
	CO55	Connected member	-25.31	-6.25	1.47	0	0
265	CO56	Main member	11.23	7.84	-0.21	-12.36	-18.26
	CO56	Connected member	-4.33	-3.88	0.3	0.05	-2
	CO56	Continuous member	-9.52	-12.65	9.87	-12.3	-18.31
	CO56	Connected member	-26.49	-6.26	1.47	0	0
265	CO57	Main member	3.27	1.32	-0.18	-18.8	-6.6
	CO57	Connected member	0.61	-5.97	0.25	0.28	-3.41
	CO57	Continuous member	-6.55	-6.71	15.23	-18.74	-6.87
	CO57	Connected member	-13.15	-9.5	1.44	0	0
265	CO58	Main member	-27.61	-7.75	-0.28	7.15	12.09
	CO58	Connected member	8.05	2.29	0.35	0.1	1.29
	CO58	Continuous member	-17.56	5.2	-6.32	7.14	12
	CO58	Connected member	10.77	3.73	1.43	0	0
265	CO59	Main member	-31.77	-7.8	-0.31	7.04	12.21
	CO59	Connected member	8.79	2.3	0.35	0.09	1.31
	CO59	Continuous member	-21.52	6.04	-6.36	7.03	12.11
	CO59	Connected member	11.02	3.73	1.43	0	0
265	CO60	Main member	-28.44	-7.81	-0.3	7.04	12.25
	CO60	Connected member	8.56	2.29	0.35	0.09	1.3
	CO60	Continuous member	-17.78	6.08	-6.34	7.03	12.16
	CO60	Connected member	11.53	3.73	1.43	0	0
265	CO61	Main member	-32.09	-7.73	-0.29	7.17	11.99
	CO61	Connected member	8.22	2.3	0.35	0.1	1.31



::LAV/team::

Page: 192/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO61	Continuous member	-22.84	4.85	-6.35	7.17	11.89
	CO61	Connected member	9.81	3.73	1.43	0	0
	CO62	Main member	10.68	7.85	-0.2	-12.55	-18.26
265	CO62	Connected member	-3.33	-3.88	0.29	0.06	-2
	CO62	Continuous member	-9.04	-10.93	9.86	-12.49	-18.32
	CO62	Connected member	-25.22	-6.25	1.47	0	0
265	CO63	Main member	10.19	7.83	-0.19	-12.36	-18.28
	CO63	Connected member	-3.98	-3.88	0.29	0.05	-2
	CO63	Continuous member	-10.3	-12.12	9.88	-12.29	-18.33
265	CO63	Connected member	-26.16	-6.26	1.47	0	0
	CO64	Main member	9.47	7.79	-0.18	-12.37	-18.1
	CO64	Connected member	-3.06	-3.87	0.29	0.05	-1.99
265	CO64	Continuous member	-10.4	-10.82	9.88	-12.3	-18.15
	CO64	Connected member	-25.4	-6.25	1.47	0	0
	CO65	Main member	10.56	7.84	-0.21	-12.36	-18.27
265	CO65	Connected member	-4.28	-3.88	0.3	0.05	-2
	CO65	Continuous member	-10.27	-12.65	9.86	-12.3	-18.32
	CO65	Connected member	-26.57	-6.26	1.47	0	0
265	CO66	Main member	2.6	1.32	-0.19	-18.8	-6.6
	CO66	Connected member	0.66	-5.97	0.25	0.28	-3.41
	CO66	Continuous member	-7.3	-6.71	15.23	-18.74	-6.88
265	CO66	Connected member	-13.24	-9.5	1.44	0	0
	CO67	Main member	-28.28	-7.75	-0.28	7.15	12.08
	CO67	Connected member	8.1	2.3	0.35	0.1	1.29
265	CO67	Continuous member	-18.32	5.2	-6.32	7.14	11.99
	CO67	Connected member	10.68	3.73	1.43	0	0
	CO68	Main member	-32.44	-7.79	-0.31	7.04	12.2
265	CO68	Connected member	8.84	2.3	0.35	0.09	1.31
	CO68	Continuous member	-22.27	6.04	-6.36	7.03	12.1
	CO68	Connected member	10.92	3.73	1.43	0	0
265	CO69	Main member	-27.93	-7.81	-0.3	7.02	12.27
	CO69	Connected member	8.52	2.29	0.35	0.09	1.29
	CO69	Continuous member	-17.19	6.09	-6.34	7.01	12.17
265	CO69	Connected member	11.62	3.73	1.43	0	0
	CO70	Main member	-31.58	-7.73	-0.29	7.16	12.01
	CO70	Connected member	8.18	2.3	0.35	0.1	1.31
265	CO70	Continuous member	-22.25	4.86	-6.34	7.15	11.91
	CO70	Connected member	9.9	3.73	1.43	0	0
	CO71	Main member	11.21	7.85	-0.2	-12.57	-18.27
265	CO71	Connected member	-3.37	-3.88	0.29	0.06	-2
	CO71	Continuous member	-8.46	-10.93	9.87	-12.5	-18.33
	CO71	Connected member	-25.16	-6.25	1.47	0	0
265	CO72	Main member	10.73	7.84	-0.19	-12.37	-18.28
	CO72	Connected member	-4.01	-3.88	0.29	0.06	-2
	CO72	Continuous member	-9.72	-12.13	9.88	-12.31	-18.34
265	CO72	Connected member	-26.11	-6.26	1.47	0	0
	CO73	Main member	10	7.8	-0.18	-12.39	-18.11
	CO73	Connected member	-3.1	-3.88	0.29	0.05	-1.99
265	CO73	Continuous member	-9.82	-10.82	9.88	-12.32	-18.16
	CO73	Connected member	-25.34	-6.25	1.47	0	0
265	CO74	Main member	11.09	7.84	-0.21	-12.38	-18.28
	CO74	Connected member	-4.32	-3.88	0.3	0.05	-2
	CO74	Continuous member	-9.69	-12.66	9.87	-12.31	-18.33
265	CO74	Connected member	-26.52	-6.26	1.47	0	0
	CO75	Main member	3.13	1.32	-0.19	-18.81	-6.6
	CO75	Connected member	0.62	-5.97	0.25	0.28	-3.42
265	CO75	Continuous member	-6.72	-6.71	15.23	-18.75	-6.88
	CO75	Connected member	-13.18	-9.5	1.44	0	0
265	CO76	Main member	-27.77	-7.76	-0.28	7.13	12.1
	CO76	Connected member	8.07	2.29	0.35	0.1	1.29
	CO76	Continuous member	-17.73	5.21	-6.32	7.12	12.01
265	CO76	Connected member	10.77	3.73	1.43	0	0
	CO77	Main member	-31.93	-7.8	-0.31	7.02	12.21
	CO77	Connected member	8.81	2.3	0.35	0.09	1.31
265	CO77	Continuous member	-21.68	6.05	-6.36	7.02	12.12
	CO77	Connected member	11.02	3.73	1.43	0	0
	CO78	Main member	-27.94	-7.82	-0.3	7	12.28
265	CO78	Connected member	8.53	2.29	0.35	0.09	1.29
	CO78	Continuous member	-17.19	6.1	-6.34	6.99	12.19
	CO78	Connected member	11.64	3.73	1.43	0	0
265	CO79	Main member	-31.59	-7.74	-0.29	7.13	12.02
	CO79	Connected member	8.19	2.3	0.35	0.1	1.31
	CO79	Continuous member	-22.25	4.86	-6.34	7.13	11.92
265	CO79	Connected member	9.92	3.73	1.43	0	0
	CO80	Main member	11.22	7.85	-0.2	-12.59	-18.28
	CO80	Connected member	-3.37	-3.88	0.29	0.06	-2
265	CO80	Continuous member	-8.46	-10.94	9.87	-12.52	-18.34
	CO80	Connected member	-25.17	-6.25	1.47	0	0
	CO81	Main member	10.73	7.84	-0.19	-12.39	-18.3
265	CO81	Connected member	-4.01	-3.88	0.29	0.06	-2
	CO81	Continuous member	-9.72	-12.13	9.88	-12.33	-18.35
	CO81	Connected member	-26.12	-6.26	1.47	0	0
265	CO82	Main member	10.01	7.8	-0.18	-12.41	-18.12
	CO82	Connected member	-3.1	-3.88	0.29	0.05	-1.99
	CO82	Continuous member	-9.82	-10.83	9.88	-12.34	-18.18
265	CO82	Connected member	-25.36	-6.25	1.47	0	0
	CO83	Main member	11.1	7.84	-0.21	-12.4	-18.29
	CO83	Connected member	-4.32	-3.88	0.3	0.05	-2
265	CO83	Continuous member	-9.7	-12.66	9.87	-12.33	-18.34
	CO83	Connected member	-26.53	-6.26	1.47	0	0
	CO84	Main member	3.13	1.32	-0.19	-18.84	-6.61
265	CO84	Connected member	0.62	-5.97	0.25	0.28	-3.42
	CO84	Continuous member	-6.72	-6.71	15.23	-18.77	-6.89
	CO84	Connected member	-13.18	-9.5	1.44	0	0



::LAV/team::

Page: 193/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO85	Main member	-27.78	-7.76	-0.28	7.11	12.11
	CO85	Connected member	8.07	2.29	0.35	0.1	1.29
	CO85	Continuous member	-17.73	5.22	-6.32	7.1	12.02
	CO85	Connected member	10.78	3.73	1.43	0	0
265	CO86	Main member	-31.94	-7.81	-0.32	7	12.23
	CO86	Connected member	8.82	2.3	0.35	0.1	1.31
	CO86	Continuous member	-21.68	6.06	-6.36	7	12.13
	CO86	Connected member	11.03	3.73	1.43	0	0
265	CO87	Main member	-27.75	-7.8	-0.29	7.07	12.24
	CO87	Connected member	8.5	2.29	0.35	0.09	1.3
	CO87	Continuous member	-17.02	6.07	-6.34	7.07	12.14
	CO87	Connected member	11.6	3.73	1.43	0	0
265	CO88	Main member	-31.39	-7.72	-0.28	7.21	11.98
	CO88	Connected member	8.16	2.3	0.35	0.1	1.31
	CO88	Continuous member	-22.08	4.84	-6.34	7.2	11.88
	CO88	Connected member	9.88	3.73	1.43	0	0
265	CO89	Main member	11.34	7.85	-0.2	-12.51	-18.24
	CO89	Connected member	-3.38	-3.88	0.29	0.05	-2
	CO89	Continuous member	-8.28	-10.92	9.87	-12.45	-18.29
	CO89	Connected member	-25.1	-6.25	1.47	0	0
265	CO90	Main member	10.86	7.83	-0.19	-12.32	-18.25
	CO90	Connected member	-4.03	-3.88	0.29	0.05	-2
	CO90	Continuous member	-9.54	-12.11	9.88	-12.25	-18.3
	CO90	Connected member	-26.05	-6.26	1.47	0	0
265	CO91	Main member	10.13	7.79	-0.18	-12.33	-18.08
	CO91	Connected member	-3.11	-3.87	0.29	0.05	-1.99
	CO91	Continuous member	-9.64	-10.81	9.89	-12.26	-18.13
	CO91	Connected member	-25.29	-6.25	1.47	0	0
265	CO92	Main member	11.22	7.83	-0.2	-12.32	-18.24
	CO92	Connected member	-4.33	-3.88	0.3	0.05	-2
	CO92	Continuous member	-9.51	-12.64	9.87	-12.26	-18.29
	CO92	Connected member	-26.46	-6.26	1.47	0	0
265	CO93	Main member	3.27	1.32	-0.18	-18.76	-6.59
	CO93	Connected member	0.6	-5.97	0.25	0.28	-3.41
	CO93	Continuous member	-6.55	-6.71	15.23	-18.7	-6.86
	CO93	Connected member	-13.14	-9.5	1.44	0	0
265	CO94	Main member	-27.58	-7.74	-0.27	7.19	12.07
	CO94	Connected member	8.04	2.3	0.35	0.1	1.29
	CO94	Continuous member	-17.56	5.19	-6.32	7.18	11.98
	CO94	Connected member	10.75	3.73	1.43	0	0
265	CO95	Main member	-31.74	-7.78	-0.31	7.08	12.18
	CO95	Connected member	8.78	2.3	0.35	0.09	1.31
	CO95	Continuous member	-21.52	6.03	-6.36	7.07	12.09
	CO95	Connected member	10.99	3.73	1.43	0	0
265	CO96	Main member	-6.53	-0.05	-0.18	-0.26	-0.08
	CO96	Connected member	1.19	-0.01	0.5	-0.4	-0.01
	CO96	Continuous member	-4.55	0.39	-0.17	-0.26	0.32
	CO96	Connected member	0.8	0	1.44	0	0
265	CO97	Main member	-7.2	-0.05	-0.18	-0.26	-0.09
	CO97	Connected member	1.24	-0.01	0.5	-0.4	-0.01
	CO97	Continuous member	-5.31	0.39	-0.18	-0.26	0.32
	CO97	Connected member	0.7	0	1.44	0	0
265	CO98	Main member	-27.76	-7.8	-0.29	7.06	12.25
	CO98	Connected member	8.5	2.29	0.35	0.09	1.29
	CO98	Continuous member	-17.02	6.08	-6.34	7.05	12.15
	CO98	Connected member	11.61	3.73	1.43	0	0
265	CO99	Main member	-31.4	-7.72	-0.29	7.19	11.99
	CO99	Connected member	8.16	2.3	0.35	0.1	1.31
	CO99	Continuous member	-22.09	4.84	-6.34	7.19	11.89
	CO99	Connected member	9.89	3.73	1.43	0	0
265	CO100	Main member	11.35	7.85	-0.2	-12.53	-18.25
	CO100	Connected member	-3.38	-3.88	0.29	0.06	-2
	CO100	Continuous member	-8.28	-10.92	9.87	-12.46	-18.3
	CO100	Connected member	-25.11	-6.25	1.47	0	0
265	CO101	Main member	10.86	7.83	-0.19	-12.34	-18.26
	CO101	Connected member	-4.03	-3.88	0.29	0.05	-2
	CO101	Continuous member	-9.54	-12.12	9.88	-12.27	-18.31
	CO101	Connected member	-26.06	-6.26	1.47	0	0
265	CO102	Main member	10.14	7.79	-0.18	-12.35	-18.09
	CO102	Connected member	-3.11	-3.87	0.29	0.05	-1.99
	CO102	Continuous member	-9.64	-10.81	9.88	-12.28	-18.14
	CO102	Connected member	-25.3	-6.25	1.47	0	0
265	CO103	Main member	11.23	7.84	-0.21	-12.34	-18.25
	CO103	Connected member	-4.33	-3.88	0.3	0.05	-2
	CO103	Continuous member	-9.52	-12.65	9.87	-12.27	-18.3
	CO103	Connected member	-26.47	-6.26	1.47	0	0
265	CO104	Main member	3.27	1.32	-0.18	-18.78	-6.59
	CO104	Connected member	0.6	-5.97	0.25	0.28	-3.41
	CO104	Continuous member	-6.55	-6.71	15.23	-18.72	-6.87
	CO104	Connected member	-13.15	-9.5	1.44	0	0
265	CO105	Main member	-27.6	-7.75	-0.27	7.17	12.08
	CO105	Connected member	8.05	2.3	0.35	0.1	1.29
	CO105	Continuous member	-17.56	5.19	-6.32	7.16	11.99
	CO105	Connected member	10.76	3.73	1.43	0	0
265	CO106	Main member	-31.75	-7.79	-0.31	7.06	12.19
	CO106	Connected member	8.79	2.3	0.35	0.09	1.31
	CO106	Continuous member	-21.52	6.03	-6.36	7.05	12.1
	CO106	Connected member	11.01	3.73	1.43	0	0
265	CO107	Main member	-28.43	-7.8	-0.3	7.06	12.24
	CO107	Connected member	8.55	2.29	0.35	0.09	1.3
	CO107	Continuous member	-17.78	6.07	-6.34	7.05	12.14
	CO107	Connected member	11.51	3.73	1.43	0	0
265	CO108	Main member	-32.07	-7.72	-0.29	7.19	11.98
	CO108	Connected member	8.21	2.3	0.35	0.1	1.31



::LAV/team::

Page: 194/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO108	Continuous member	-22.84	4.84	-6.34	7.19	11.88
	CO108	Connected member	9.79	3.73	1.43	0	0
	CO109	Main member	10.67	7.85	-0.2	-12.53	-18.25
265	CO109	Connected member	-3.33	-3.88	0.29	0.06	-2
	CO109	Continuous member	-9.03	-10.92	9.86	-12.46	-18.3
	CO109	Connected member	-25.2	-6.25	1.47	0	0
265	CO110	Main member	10.19	7.83	-0.19	-12.34	-18.26
	CO110	Connected member	-3.98	-3.88	0.29	0.05	-2
	CO110	Continuous member	-10.29	-12.12	9.88	-12.27	-18.32
265	CO110	Connected member	-26.15	-6.26	1.47	0	0
	CO111	Main member	9.46	7.79	-0.18	-12.35	-18.09
	CO111	Connected member	-3.06	-3.87	0.29	0.05	-1.99
265	CO111	Continuous member	-10.39	-10.81	9.88	-12.28	-18.14
	CO111	Connected member	-25.39	-6.25	1.47	0	0
265	CO112	Main member	10.55	7.83	-0.21	-12.34	-18.26
	CO112	Connected member	-4.28	-3.88	0.3	0.05	-2
	CO112	Continuous member	-10.26	-12.65	9.87	-12.28	-18.3
265	CO112	Connected member	-26.56	-6.26	1.47	0	0
	CO113	Main member	2.6	1.32	-0.19	-18.78	-6.6
	CO113	Connected member	0.65	-5.97	0.25	0.28	-3.41
265	CO113	Continuous member	-7.3	-6.71	15.23	-18.72	-6.87
	CO113	Connected member	-13.24	-9.5	1.44	0	0
265	CO114	Main member	-28.27	-7.74	-0.28	7.17	12.07
	CO114	Connected member	8.1	2.3	0.35	0.1	1.3
	CO114	Continuous member	-18.32	5.19	-6.32	7.16	11.98
265	CO114	Connected member	10.66	3.73	1.43	0	0
	CO115	Main member	-32.43	-7.79	-0.31	7.06	12.19
	CO115	Connected member	8.84	2.3	0.35	0.09	1.31
265	CO115	Continuous member	-22.27	6.03	-6.36	7.06	12.09
	CO115	Connected member	10.91	3.73	1.43	0	0
265	CO116	Main member	-27.73	-7.79	-0.29	7.09	12.22
	CO116	Connected member	8.49	2.29	0.35	0.09	1.3
	CO116	Continuous member	-17.02	6.06	-6.33	7.09	12.13
265	CO116	Connected member	11.58	3.73	1.43	0	0
	CO117	Main member	-31.38	-7.71	-0.28	7.23	11.96
	CO117	Connected member	8.15	2.3	0.35	0.1	1.31
265	CO117	Continuous member	-22.08	4.83	-6.34	7.22	11.87
	CO117	Connected member	9.86	3.73	1.43	0	0
	CO118	Main member	11.33	7.84	-0.2	-12.49	-18.22
265	CO118	Connected member	-3.38	-3.88	0.29	0.05	-2
	CO118	Continuous member	-8.28	-10.91	9.87	-12.43	-18.28
	CO118	Connected member	-25.09	-6.25	1.47	0	0
265	CO119	Main member	10.85	7.83	-0.19	-12.3	-18.24
	CO119	Connected member	-4.03	-3.88	0.29	0.05	-2
	CO119	Continuous member	-9.53	-12.11	9.88	-12.23	-18.29
265	CO119	Connected member	-26.04	-6.26	1.47	0	0
	CO120	Main member	10.13	7.79	-0.18	-12.31	-18.07
	CO120	Connected member	-3.11	-3.87	0.29	0.05	-1.99
265	CO120	Continuous member	-9.63	-10.8	9.89	-12.24	-18.12
	CO120	Connected member	-25.27	-6.25	1.47	0	0
265	CO121	Main member	11.22	7.83	-0.2	-12.3	-18.23
	CO121	Connected member	-4.33	-3.88	0.3	0.04	-2
	CO121	Continuous member	-9.51	-12.64	9.87	-12.24	-18.28
265	CO121	Connected member	-26.45	-6.26	1.47	0	0
	CO122	Main member	3.27	1.32	-0.18	-18.74	-6.59
	CO122	Connected member	0.6	-5.97	0.25	0.27	-3.41
265	CO122	Continuous member	-6.54	-6.7	15.23	-18.68	-6.86
	CO122	Connected member	-13.14	-9.49	1.44	0	0
265	CO123	Main member	-27.57	-7.73	-0.27	7.21	12.06
	CO123	Connected member	8.04	2.3	0.35	0.1	1.3
	CO123	Continuous member	-17.56	5.18	-6.32	7.2	11.96
265	CO123	Connected member	10.73	3.73	1.43	0	0
	CO124	Main member	-31.73	-7.78	-0.31	7.1	12.17
	CO124	Connected member	8.78	2.3	0.35	0.09	1.31
265	CO124	Continuous member	-21.51	6.02	-6.36	7.09	12.08
	CO124	Connected member	10.98	3.73	1.43	0	0
265	CO125	Main member	-6.47	-0.03	-0.17	-0.15	-0.12
	CO125	Connected member	1.17	0	0.5	-0.4	-0.01
	CO125	Continuous member	-4.55	0.36	-0.17	-0.14	0.29
265	CO125	Connected member	0.73	0	1.44	0	0
	CO126	Main member	-7.81	-0.03	-0.18	-0.15	-0.13
	CO126	Connected member	1.27	0	0.5	-0.4	0
265	CO126	Continuous member	-6.05	0.35	-0.17	-0.14	0.27
	CO126	Connected member	0.53	0	1.45	0	0
265	CO127	Main member	-6.65	-0.04	-0.18	-0.22	-0.09
	CO127	Connected member	1.19	-0.01	0.5	-0.4	-0.01
	CO127	Continuous member	-4.72	0.38	-0.17	-0.22	0.31
265	CO127	Connected member	0.75	0	1.44	0	0
	CO128	Main member	-8	-0.04	-0.18	-0.22	-0.11
	CO128	Connected member	1.29	0	0.5	-0.4	-0.01
265	CO128	Continuous member	-6.22	0.37	-0.18	-0.22	0.29
	CO128	Connected member	0.56	0	1.45	0	0
265	CO129	Main member	-6.66	-0.04	-0.18	-0.24	-0.09
	CO129	Connected member	1.19	-0.01	0.5	-0.4	-0.01
	CO129	Continuous member	-4.72	0.39	-0.17	-0.24	0.32
265	CO129	Connected member	0.76	0	1.44	0	0
	CO130	Main member	-8.01	-0.04	-0.18	-0.24	-0.1
	CO130	Connected member	1.3	0	0.5	-0.4	-0.01
265	CO130	Continuous member	-6.22	0.38	-0.18	-0.24	0.3
	CO130	Connected member	0.57	0	1.45	0	0
	CO131	Main member	-6.48	-0.03	-0.17	-0.17	-0.11
265	CO131	Connected member	1.17	0	0.5	-0.4	-0.01
	CO131	Continuous member	-4.55	0.37	-0.17	-0.16	0.29
	CO131	Connected member	0.74	0	1.44	0	0



::LAV/team::

Page: 195/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO132	Main member	-7.82	-0.03	-0.18	-0.17	-0.12
	CO132	Connected member	1.27	0	0.5	-0.4	0
	CO132	Continuous member	-6.06	0.36	-0.17	-0.16	0.28
	CO132	Connected member	0.55	0	1.45	0	0
265	CO133	Main member	-27.88	-7.79	-0.29	7.09	12.22
	CO133	Connected member	8.5	2.29	0.35	0.09	1.3
	CO133	Continuous member	-17.18	6.06	-6.33	7.09	12.13
	CO133	Connected member	11.56	3.73	1.43	0	0
265	CO134	Main member	-31.52	-7.71	-0.28	7.23	11.96
	CO134	Connected member	8.16	2.3	0.35	0.1	1.31
	CO134	Continuous member	-22.25	4.83	-6.34	7.23	11.86
	CO134	Connected member	9.84	3.73	1.43	0	0
265	CO135	Main member	11.19	7.84	-0.2	-12.49	-18.23
	CO135	Connected member	-3.37	-3.88	0.29	0.05	-2
	CO135	Continuous member	-8.44	-10.91	9.87	-12.43	-18.28
	CO135	Connected member	-25.11	-6.25	1.47	0	0
265	CO136	Main member	10.7	7.83	-0.19	-12.3	-18.24
	CO136	Connected member	-4.01	-3.88	0.29	0.05	-2
	CO136	Continuous member	-9.7	-12.11	9.88	-12.23	-18.29
	CO136	Connected member	-26.06	-6.26	1.47	0	0
265	CO137	Main member	9.98	7.79	-0.18	-12.31	-18.07
	CO137	Connected member	-3.1	-3.87	0.29	0.05	-1.99
	CO137	Continuous member	-9.8	-10.8	9.89	-12.24	-18.12
	CO137	Connected member	-25.29	-6.25	1.47	0	0
265	CO138	Main member	11.07	7.83	-0.2	-12.3	-18.23
	CO138	Connected member	-4.31	-3.88	0.3	0.04	-2
	CO138	Continuous member	-9.67	-12.64	9.87	-12.24	-18.28
	CO138	Connected member	-26.47	-6.26	1.47	0	0
265	CO139	Main member	3.12	1.32	-0.18	-18.74	-6.59
	CO139	Connected member	0.61	-5.97	0.25	0.27	-3.41
	CO139	Continuous member	-6.71	-6.71	15.23	-18.68	-6.86
	CO139	Connected member	-13.16	-9.5	1.44	0	0
265	CO140	Main member	-27.72	-7.73	-0.27	7.21	12.06
	CO140	Connected member	8.05	2.3	0.35	0.1	1.29
	CO140	Continuous member	-17.73	5.18	-6.32	7.2	11.96
	CO140	Connected member	10.71	3.73	1.43	0	0
265	CO141	Main member	-31.87	-7.78	-0.31	7.1	12.17
	CO141	Connected member	8.79	2.3	0.35	0.09	1.31
	CO141	Continuous member	-21.68	6.02	-6.36	7.09	12.08
	CO141	Connected member	10.96	3.73	1.43	0	0
265	CO142	Main member	-29.22	-7.79	-0.3	7.1	12.21
	CO142	Connected member	8.6	2.3	0.35	0.09	1.3
	CO142	Continuous member	-18.69	6.05	-6.34	7.09	12.11
	CO142	Connected member	11.36	3.73	1.43	0	0
265	CO143	Main member	-32.86	-7.71	-0.29	7.23	11.94
	CO143	Connected member	8.26	2.31	0.35	0.1	1.32
	CO143	Continuous member	-23.75	4.82	-6.34	7.23	11.85
	CO143	Connected member	9.64	3.73	1.43	0	0
265	CO144	Main member	9.84	7.84	-0.2	-12.49	-18.23
	CO144	Connected member	-3.27	-3.87	0.29	0.05	-1.99
	CO144	Continuous member	-9.94	-10.91	9.87	-12.43	-18.28
	CO144	Connected member	-25.29	-6.25	1.47	0	0
265	CO145	Main member	9.36	7.83	-0.19	-12.3	-18.25
	CO145	Connected member	-3.91	-3.88	0.29	0.05	-2
	CO145	Continuous member	-11.19	-12.11	9.88	-12.23	-18.3
	CO145	Connected member	-26.24	-6.26	1.47	0	0
265	CO146	Main member	8.63	7.79	-0.18	-12.31	-18.07
	CO146	Connected member	-3	-3.87	0.29	0.05	-1.98
	CO146	Continuous member	-11.29	-10.8	9.88	-12.24	-18.12
	CO146	Connected member	-25.47	-6.25	1.47	0	0
265	CO147	Main member	9.72	7.83	-0.21	-12.31	-18.24
	CO147	Connected member	-4.21	-3.88	0.3	0.04	-2
	CO147	Continuous member	-11.16	-12.64	9.87	-12.24	-18.28
	CO147	Connected member	-26.65	-6.26	1.47	0	0
265	CO148	Main member	1.78	1.33	-0.18	-18.74	-6.6
	CO148	Connected member	0.71	-5.97	0.25	0.27	-3.41
	CO148	Continuous member	-8.2	-6.71	15.23	-18.68	-6.87
	CO148	Connected member	-13.34	-9.5	1.44	0	0
265	CO149	Main member	-29.06	-7.73	-0.28	7.21	12.04
	CO149	Connected member	8.15	2.3	0.35	0.1	1.3
	CO149	Continuous member	-19.23	5.17	-6.32	7.2	11.94
	CO149	Connected member	10.51	3.73	1.43	0	0
265	CO150	Main member	-33.22	-7.77	-0.31	7.1	12.15
	CO150	Connected member	8.89	2.3	0.35	0.09	1.32
	CO150	Continuous member	-23.18	6.01	-6.36	7.1	12.06
	CO150	Connected member	10.76	3.73	1.43	0	0
265	CO151	Main member	-27.89	-7.8	-0.29	7.07	12.24
	CO151	Connected member	8.51	2.29	0.35	0.09	1.29
	CO151	Continuous member	-17.18	6.07	-6.33	7.07	12.14
	CO151	Connected member	11.58	3.73	1.43	0	0
265	CO152	Main member	-31.54	-7.72	-0.28	7.21	11.97
	CO152	Connected member	8.17	2.3	0.35	0.1	1.31
	CO152	Continuous member	-22.25	4.84	-6.34	7.2	11.88
	CO152	Connected member	9.86	3.73	1.43	0	0
265	CO153	Main member	11.19	7.85	-0.2	-12.51	-18.24
	CO153	Connected member	-3.37	-3.88	0.29	0.05	-2
	CO153	Continuous member	-8.44	-10.92	9.87	-12.45	-18.29
	CO153	Connected member	-25.12	-6.25	1.47	0	0
265	CO154	Main member	10.71	7.83	-0.19	-12.32	-18.25
	CO154	Connected member	-4.01	-3.88	0.29	0.05	-2
	CO154	Continuous member	-9.7	-12.11	9.88	-12.25	-18.31
	CO154	Connected member	-26.07	-6.26	1.47	0	0
265	CO155	Main member	9.99	7.79	-0.18	-12.33	-18.08
	CO155	Connected member	-3.1	-3.87	0.29	0.05	-1.99



::LAV/team::

Page: 196/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO155	Continuous member	-9.8	-10.81	9.89	-12.26	-18.13
	CO155	Connected member	-25.31	-6.25	1.47	0	0
	CO156	Main member	11.08	7.83	-0.2	-12.32	-18.25
265	CO156	Connected member	-4.31	-3.88	0.3	0.05	-2
	CO156	Continuous member	-9.67	-12.64	9.87	-12.26	-18.29
	CO156	Connected member	-26.48	-6.26	1.47	0	0
265	CO157	Main member	3.13	1.32	-0.18	-18.76	-6.59
	CO157	Connected member	0.61	-5.97	0.25	0.28	-3.42
	CO157	Continuous member	-6.71	-6.71	15.23	-18.7	-6.87
265	CO157	Connected member	-13.16	-9.5	1.44	0	0
	CO158	Main member	-27.73	-7.74	-0.27	7.19	12.07
	CO158	Connected member	8.05	2.3	0.35	0.1	1.29
265	CO158	Continuous member	-17.73	5.19	-6.32	7.18	11.97
	CO158	Connected member	10.72	3.73	1.43	0	0
	CO159	Main member	-31.89	-7.78	-0.31	7.08	12.18
265	CO159	Connected member	8.79	2.3	0.35	0.09	1.31
	CO159	Continuous member	-21.68	6.03	-6.36	7.07	12.09
	CO159	Connected member	10.97	3.73	1.43	0	0
265	CO160	Main member	-29.24	-7.79	-0.3	7.08	12.22
	CO160	Connected member	8.61	2.3	0.35	0.09	1.3
	CO160	Continuous member	-18.69	6.06	-6.34	7.07	12.12
265	CO160	Connected member	11.38	3.73	1.43	0	0
	CO161	Main member	-32.88	-7.71	-0.29	7.21	11.96
	CO161	Connected member	8.27	2.3	0.35	0.1	1.31
265	CO161	Continuous member	-23.75	4.83	-6.35	7.21	11.86
	CO161	Connected member	9.66	3.73	1.43	0	0
	CO162	Main member	9.84	7.84	-0.2	-12.51	-18.24
265	CO162	Connected member	-3.27	-3.87	0.29	0.05	-1.99
	CO162	Continuous member	-9.94	-10.92	9.86	-12.45	-18.3
	CO162	Connected member	-25.3	-6.25	1.47	0	0
265	CO163	Main member	9.36	7.83	-0.19	-12.32	-18.26
	CO163	Connected member	-3.91	-3.88	0.29	0.05	-2
	CO163	Continuous member	-11.2	-12.11	9.88	-12.25	-18.31
265	CO163	Connected member	-26.25	-6.26	1.47	0	0
	CO164	Main member	8.63	7.79	-0.18	-12.33	-18.09
	CO164	Connected member	-3	-3.87	0.29	0.05	-1.98
265	CO164	Continuous member	-11.3	-10.81	9.88	-12.26	-18.14
	CO164	Connected member	-25.49	-6.25	1.47	0	0
	CO165	Main member	9.73	7.83	-0.21	-12.33	-18.25
265	CO165	Connected member	-4.21	-3.88	0.3	0.05	-2
	CO165	Continuous member	-11.17	-12.65	9.86	-12.26	-18.3
	CO165	Connected member	-26.66	-6.26	1.47	0	0
265	CO166	Main member	1.78	1.32	-0.18	-18.76	-6.6
	CO166	Connected member	0.71	-5.97	0.25	0.27	-3.41
	CO166	Continuous member	-8.21	-6.71	15.23	-18.7	-6.88
265	CO166	Connected member	-13.35	-9.5	1.44	0	0
	CO167	Main member	-29.07	-7.74	-0.28	7.19	12.05
	CO167	Connected member	8.15	2.3	0.35	0.1	1.3
265	CO167	Continuous member	-19.23	5.18	-6.32	7.18	11.96
	CO167	Connected member	10.52	3.73	1.43	0	0
	CO168	Main member	-33.23	-7.78	-0.31	7.08	12.16
265	CO168	Connected member	8.89	2.3	0.35	0.09	1.32
	CO168	Continuous member	-23.19	6.02	-6.37	7.08	12.07
	CO168	Connected member	10.77	3.73	1.43	0	0
265	CO169	Main member	-27.7	-7.77	-0.29	7.15	12.19
	CO169	Connected member	8.48	2.3	0.35	0.09	1.3
	CO169	Continuous member	-17.02	6.04	-6.33	7.14	12.1
265	CO169	Connected member	11.54	3.73	1.43	0	0
	CO170	Main member	-31.34	-7.69	-0.28	7.29	11.93
	CO170	Connected member	8.14	2.3	0.35	0.1	1.32
265	CO170	Continuous member	-22.08	4.81	-6.33	7.28	11.84
	CO170	Connected member	9.82	3.73	1.43	0	0
	CO171	Main member	11.31	7.84	-0.19	-12.44	-18.19
265	CO171	Connected member	-3.38	-3.88	0.29	0.05	-2
	CO171	Continuous member	-8.26	-10.9	9.87	-12.37	-18.24
	CO171	Connected member	-25.05	-6.25	1.47	0	0
265	CO172	Main member	10.84	7.82	-0.18	-12.24	-18.21
	CO172	Connected member	-4.03	-3.88	0.3	0.05	-2
	CO172	Continuous member	-9.52	-12.09	9.89	-12.17	-18.26
265	CO172	Connected member	-26	-6.26	1.47	0	0
	CO173	Main member	10.11	7.78	-0.17	-12.26	-18.04
	CO173	Connected member	-3.11	-3.87	0.29	0.04	-1.99
265	CO173	Continuous member	-9.62	-10.79	9.89	-12.19	-18.08
	CO173	Connected member	-25.24	-6.25	1.47	0	0
	CO174	Main member	11.2	7.83	-0.2	-12.25	-18.2
265	CO174	Connected member	-4.33	-3.88	0.3	0.04	-2
	CO174	Continuous member	-9.49	-12.62	9.87	-12.18	-18.24
	CO174	Connected member	-26.41	-6.26	1.47	0	0
265	CO175	Main member	3.27	1.33	-0.18	-18.69	-6.58
	CO175	Connected member	0.59	-5.97	0.25	0.27	-3.41
	CO175	Continuous member	-6.53	-6.7	15.23	-18.62	-6.85
265	CO175	Connected member	-13.12	-9.49	1.44	0	0
	CO176	Main member	-27.53	-7.72	-0.27	7.26	12.03
	CO176	Connected member	8.02	2.3	0.35	0.1	1.3
265	CO176	Continuous member	-17.56	5.16	-6.31	7.26	11.93
	CO176	Connected member	10.69	3.73	1.43	0	0
	CO177	Main member	-31.69	-7.76	-0.3	7.16	12.14
265	CO177	Connected member	8.76	2.3	0.35	0.09	1.32
	CO177	Continuous member	-21.51	6	-6.35	7.15	12.05
	CO177	Connected member	10.93	3.73	1.43	0	0
265	CO178	Main member	-29.04	-7.77	-0.29	7.15	12.18
	CO178	Connected member	8.58	2.3	0.35	0.09	1.3
	CO178	Continuous member	-18.53	6.03	-6.34	7.14	12.08
	CO178	Connected member	11.34	3.73	1.43	0	0



::LAVteam::

Page: 197/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO179	Main member	-32.68	-7.69	-0.28	7.29	11.91
	CO179	Connected member	8.24	2.31	0.35	0.1	1.32
	CO179	Continuous member	-23.58	4.8	-6.34	7.28	11.82
265	CO179	Connected member	9.62	3.73	1.43	0	0
	CO180	Main member	9.96	7.84	-0.2	-12.44	-18.2
	CO180	Connected member	-3.28	-3.87	0.29	0.05	-1.99
265	CO180	Continuous member	-9.76	-10.9	9.87	-12.37	-18.25
	CO180	Connected member	-25.23	-6.25	1.47	0	0
	CO181	Main member	9.49	7.82	-0.19	-12.24	-18.21
265	CO181	Connected member	-3.92	-3.88	0.3	0.05	-1.99
	CO181	Continuous member	-11.02	-12.09	9.88	-12.18	-18.26
	CO181	Connected member	-26.18	-6.26	1.47	0	0
265	CO182	Main member	8.76	7.78	-0.18	-12.26	-18.04
	CO182	Connected member	-3.01	-3.87	0.29	0.04	-1.98
	CO182	Continuous member	-11.12	-10.79	9.88	-12.19	-18.09
265	CO182	Connected member	-25.42	-6.25	1.47	0	0
	CO183	Main member	9.85	7.82	-0.2	-12.25	-18.21
	CO183	Connected member	-4.23	-3.88	0.3	0.04	-1.99
265	CO183	Continuous member	-10.98	-12.63	9.87	-12.18	-18.25
	CO183	Connected member	-26.59	-6.26	1.47	0	0
265	CO184	Main member	1.92	1.33	-0.18	-18.69	-6.58
	CO184	Connected member	0.69	-5.96	0.25	0.27	-3.41
	CO184	Continuous member	-8.03	-6.7	15.23	-18.63	-6.85
265	CO184	Connected member	-13.31	-9.5	1.44	0	0
	CO185	Main member	-28.87	-7.71	-0.27	7.27	12.01
	CO185	Connected member	8.12	2.3	0.35	0.1	1.3
265	CO185	Continuous member	-19.07	5.15	-6.32	7.26	11.91
	CO185	Connected member	10.49	3.73	1.43	0	0
265	CO186	Main member	-33.03	-7.76	-0.31	7.16	12.12
	CO186	Connected member	8.86	2.3	0.35	0.09	1.32
	CO186	Continuous member	-23.02	5.99	-6.36	7.15	12.03
265	CO186	Connected member	10.74	3.73	1.43	0	0
	CO187	Main member	-27.68	-7.77	-0.28	7.17	12.18
	CO187	Connected member	8.47	2.3	0.35	0.09	1.3
265	CO187	Continuous member	-17.02	6.03	-6.33	7.16	12.09
	CO187	Connected member	11.52	3.73	1.43	0	0
265	CO188	Main member	-31.32	-7.69	-0.28	7.31	11.92
	CO188	Connected member	8.13	2.31	0.35	0.1	1.32
	CO188	Continuous member	-22.08	4.8	-6.33	7.3	11.82
265	CO188	Connected member	9.81	3.73	1.43	0	0
	CO189	Main member	11.31	7.84	-0.19	-12.42	-18.18
	CO189	Connected member	-3.38	-3.88	0.29	0.05	-1.99
265	CO189	Continuous member	-8.26	-10.89	9.87	-12.35	-18.23
	CO189	Connected member	-25.04	-6.25	1.47	0	0
265	CO190	Main member	10.83	7.82	-0.18	-12.22	-18.2
	CO190	Connected member	-4.03	-3.88	0.3	0.05	-2
	CO190	Continuous member	-9.51	-12.09	9.89	-12.15	-18.24
265	CO190	Connected member	-25.99	-6.26	1.47	0	0
	CO191	Main member	10.1	7.78	-0.17	-12.23	-18.03
	CO191	Connected member	-3.11	-3.87	0.29	0.04	-1.99
265	CO191	Continuous member	-9.61	-10.78	9.89	-12.17	-18.07
	CO191	Connected member	-25.22	-6.25	1.47	0	0
265	CO192	Main member	11.2	7.82	-0.2	-12.23	-18.19
	CO192	Connected member	-4.33	-3.88	0.3	0.04	-2
	CO192	Continuous member	-9.48	-12.62	9.87	-12.16	-18.23
265	CO192	Connected member	-26.4	-6.26	1.47	0	0
	CO193	Main member	3.27	1.33	-0.18	-18.66	-6.57
	CO193	Connected member	0.59	-5.97	0.25	0.27	-3.41
265	CO193	Continuous member	-6.53	-6.7	15.23	-18.6	-6.84
	CO193	Connected member	-13.12	-9.49	1.44	0	0
265	CO194	Main member	-27.52	-7.71	-0.26	7.28	12.01
	CO194	Connected member	8.02	2.3	0.35	0.09	1.3
	CO194	Continuous member	-17.56	5.15	-6.31	7.28	11.92
265	CO194	Connected member	10.67	3.73	1.43	0	0
	CO195	Main member	-31.67	-7.75	-0.3	7.18	12.13
	CO195	Connected member	8.76	2.3	0.35	0.09	1.32
265	CO195	Continuous member	-21.51	5.99	-6.35	7.17	12.03
	CO195	Connected member	10.92	3.73	1.43	0	0
265	CO196	Main member	-29.02	-7.76	-0.29	7.17	12.16
	CO196	Connected member	8.57	2.3	0.35	0.09	1.31
	CO196	Continuous member	-18.52	6.02	-6.34	7.17	12.07
265	CO196	Connected member	11.32	3.73	1.43	0	0
	CO197	Main member	-32.66	-7.68	-0.28	7.31	11.9
	CO197	Connected member	8.23	2.31	0.35	0.1	1.32
265	CO197	Continuous member	-23.58	4.79	-6.34	7.3	11.81
	CO197	Connected member	9.61	3.73	1.43	0	0
265	CO198	Main member	9.96	7.83	-0.2	-12.42	-18.19
	CO198	Connected member	-3.28	-3.87	0.29	0.05	-1.99
	CO198	Continuous member	-9.75	-10.89	9.87	-12.35	-18.24
265	CO198	Connected member	-25.22	-6.25	1.47	0	0
	CO199	Main member	9.48	7.82	-0.19	-12.22	-18.2
	CO199	Connected member	-3.92	-3.88	0.3	0.05	-1.99
265	CO199	Continuous member	-11.01	-12.09	9.88	-12.16	-18.25
	CO199	Connected member	-26.17	-6.26	1.47	0	0
265	CO200	Main member	8.75	7.78	-0.18	-12.24	-18.03
	CO200	Connected member	-3.01	-3.87	0.29	0.04	-1.98
	CO200	Continuous member	-11.11	-10.79	9.88	-12.17	-18.08
265	CO200	Connected member	-25.4	-6.25	1.47	0	0
	CO201	Main member	9.85	7.82	-0.2	-12.23	-18.2
	CO201	Connected member	-4.23	-3.88	0.3	0.04	-1.99
265	CO201	Continuous member	-10.98	-12.62	9.87	-12.16	-18.24
	CO201	Connected member	-26.58	-6.26	1.47	0	0
265	CO202	Main member	1.92	1.33	-0.18	-18.67	-6.58
	CO202	Connected member	0.69	-5.96	0.25	0.27	-3.41



::LAV/team::

Page: 198/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO202	Continuous member	-8.02	-6.7	15.23	-18.6	-6.85
	CO202	Connected member	-13.3	-9.5	1.44	0	0
	CO203	Main member	-28.86	-7.71	-0.27	7.29	12
265	CO203	Connected member	8.11	2.3	0.35	0.09	1.3
	CO203	Continuous member	-19.06	5.14	-6.32	7.28	11.9
	CO203	Connected member	10.47	3.73	1.43	0	0
265	CO204	Main member	-33.01	-7.75	-0.3	7.18	12.11
	CO204	Connected member	8.86	2.31	0.35	0.09	1.32
	CO204	Continuous member	-23.01	5.98	-6.36	7.17	12.02
265	CO204	Connected member	10.72	3.73	1.43	0	0
	CO205	Main member	-41.72	-12.87	-0.38	12.12	20.29
	CO205	Connected member	13.29	3.82	0.25	0.42	2.17
265	CO205	Continuous member	-25.33	9.76	-10.43	12.11	19.87
	CO205	Connected member	18.61	6.18	1.41	0	0
265	CO206	Main member	-47.76	-12.72	-0.37	12.35	19.83
	CO206	Connected member	12.71	3.84	0.25	0.42	2.19
	CO206	Continuous member	-33.75	7.7	-10.44	12.34	19.41
265	CO206	Connected member	15.73	6.19	1.42	0	0
	CO207	Main member	23.1	13.06	-0.27	-20.61	-30.08
	CO207	Connected member	-6.38	-6.47	0.16	0.34	-3.33
265	CO207	Continuous member	-10.67	-18.29	16.61	-20.5	-30.42
	CO207	Connected member	-42.07	-10.59	1.47	0	0
265	CO208	Main member	22.2	12.99	-0.25	-20.29	-29.98
	CO208	Connected member	-7.42	-6.48	0.17	0.33	-3.35
	CO208	Continuous member	-12.72	-20.2	16.64	-20.18	-30.31
265	CO208	Connected member	-43.47	-10.6	1.47	0	0
	CO209	Main member	21	12.93	-0.24	-20.31	-29.71
	CO209	Connected member	-5.92	-6.47	0.17	0.32	-3.33
265	CO209	Continuous member	-12.9	-18.05	16.65	-20.2	-30.04
	CO209	Connected member	-42.22	-10.59	1.47	0	0
265	CO210	Main member	22.71	12.96	-0.28	-20.3	-29.86
	CO210	Connected member	-7.91	-6.49	0.18	0.31	-3.36
	CO210	Continuous member	-12.63	-21.01	16.62	-20.19	-30.17
265	CO210	Connected member	-44	-10.61	1.47	0	0
	CO211	Main member	9.6	2.2	-0.23	-30.98	-10.61
	CO211	Connected member	0.25	-9.95	0.1	0.69	-5.69
265	CO211	Continuous member	-7.72	-11.2	25.52	-30.89	-11.31
	CO211	Connected member	-21.97	-15.95	1.41	0	0
265	CO212	Main member	-41.43	-12.76	-0.34	12.31	19.99
	CO212	Connected member	12.52	3.82	0.25	0.42	2.17
	CO212	Continuous member	-26.23	8.29	-10.4	12.3	19.57
265	CO212	Connected member	17.17	6.18	1.41	0	0
	CO213	Main member	-48.36	-12.84	-0.41	12.13	20.2
	CO213	Connected member	13.76	3.83	0.25	0.42	2.19
265	CO213	Continuous member	-32.81	9.69	-10.47	12.12	19.78
	CO213	Connected member	17.59	6.18	1.41	0	0
265	CO214	Main member	-41.93	-12.9	-0.39	12.04	20.35
	CO214	Connected member	13.32	3.82	0.25	0.42	2.16
	CO214	Continuous member	-25.5	9.8	-10.44	12.03	19.93
265	CO214	Connected member	18.66	6.18	1.41	0	0
	CO215	Main member	-47.97	-12.75	-0.37	12.28	19.88
	CO215	Connected member	12.75	3.84	0.25	0.43	2.19
265	CO215	Continuous member	-33.93	7.74	-10.45	12.27	19.46
	CO215	Connected member	15.77	6.19	1.42	0	0
265	CO216	Main member	23.02	13.08	-0.27	-20.69	-30.17
	CO216	Connected member	-6.37	-6.47	0.16	0.35	-3.34
	CO216	Continuous member	-10.87	-18.34	16.61	-20.58	-30.52
265	CO216	Connected member	-42.2	-10.59	1.47	0	0
	CO217	Main member	22.11	13.01	-0.26	-20.37	-30.07
	CO217	Connected member	-7.42	-6.48	0.17	0.34	-3.35
265	CO217	Continuous member	-12.92	-20.25	16.64	-20.26	-30.4
	CO217	Connected member	-43.6	-10.6	1.47	0	0
265	CO218	Main member	20.91	12.95	-0.24	-20.39	-29.8
	CO218	Connected member	-5.92	-6.47	0.16	0.33	-3.33
	CO218	Continuous member	-13.09	-18.09	16.64	-20.28	-30.13
265	CO218	Connected member	-42.34	-10.59	1.47	0	0
	CO219	Main member	22.62	12.98	-0.29	-20.38	-29.94
	CO219	Connected member	-7.9	-6.49	0.18	0.32	-3.36
265	CO219	Continuous member	-12.83	-21.06	16.62	-20.27	-30.26
	CO219	Connected member	-44.12	-10.61	1.47	0	0
265	CO220	Main member	9.48	2.2	-0.23	-31.06	-10.65
	CO220	Connected member	0.27	-9.95	0.1	0.7	-5.7
	CO220	Continuous member	-7.9	-11.22	25.52	-30.96	-11.35
265	CO220	Connected member	-22.05	-15.96	1.41	0	0
	CO221	Main member	-41.64	-12.79	-0.35	12.23	20.05
	CO221	Connected member	12.56	3.82	0.25	0.42	2.16
265	CO221	Continuous member	-26.4	8.32	-10.41	12.22	19.62
	CO221	Connected member	17.22	6.18	1.41	0	0
265	CO222	Main member	-48.58	-12.87	-0.42	12.06	20.25
	CO222	Connected member	13.8	3.83	0.25	0.42	2.19
	CO222	Continuous member	-32.99	9.72	-10.48	12.05	19.83
265	CO222	Connected member	17.64	6.18	1.41	0	0
	CO223	Main member	-41.94	-12.91	-0.39	12.02	20.36
	CO223	Connected member	13.33	3.82	0.25	0.42	2.16
265	CO223	Continuous member	-25.5	9.81	-10.44	12.01	19.94
	CO223	Connected member	18.68	6.18	1.41	0	0
265	CO224	Main member	-47.99	-12.76	-0.38	12.26	19.9
	CO224	Connected member	12.75	3.83	0.25	0.43	2.19
	CO224	Continuous member	-33.93	7.74	-10.45	12.25	19.47
265	CO224	Connected member	15.79	6.19	1.42	0	0
	CO225	Main member	23.04	13.09	-0.27	-20.71	-30.19
	CO225	Connected member	-6.37	-6.47	0.16	0.35	-3.34
265	CO225	Continuous member	-10.87	-18.35	16.61	-20.6	-30.54
	CO225	Connected member	-42.23	-10.59	1.47	0	0



::LAV/team::

Page: 199/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO226	Main member	22.13	13.02	-0.26	-20.39	-30.09
	CO226	Connected member	-7.42	-6.48	0.17	0.34	-3.35
	CO226	Continuous member	-12.93	-20.26	16.64	-20.28	-30.43
	CO226	Connected member	-43.63	-10.6	1.47	0	0
265	CO227	Main member	20.92	12.96	-0.24	-20.41	-29.82
	CO227	Connected member	-5.92	-6.47	0.16	0.33	-3.33
	CO227	Continuous member	-13.1	-18.11	16.64	-20.3	-30.15
	CO227	Connected member	-42.37	-10.59	1.47	0	0
265	CO228	Main member	22.64	12.98	-0.29	-20.4	-29.96
	CO228	Connected member	-7.9	-6.49	0.18	0.32	-3.36
	CO228	Continuous member	-12.84	-21.07	16.62	-20.29	-30.28
	CO228	Connected member	-44.15	-10.61	1.47	0	0
265	CO229	Main member	9.49	2.2	-0.23	-31.08	-10.66
	CO229	Connected member	0.27	-9.95	0.1	0.7	-5.7
	CO229	Continuous member	-7.91	-11.23	25.52	-30.98	-11.36
	CO229	Connected member	-22.07	-15.96	1.41	0	0
265	CO230	Main member	-41.66	-12.8	-0.35	12.21	20.06
	CO230	Connected member	12.56	3.82	0.25	0.42	2.16
	CO230	Continuous member	-26.4	8.33	-10.41	12.2	19.64
	CO230	Connected member	17.24	6.18	1.41	0	0
265	CO231	Main member	-48.59	-12.88	-0.42	12.04	20.27
	CO231	Connected member	13.8	3.83	0.25	0.42	2.19
	CO231	Continuous member	-32.99	9.73	-10.48	12.02	19.85
	CO231	Connected member	17.66	6.18	1.41	0	0
265	CO232	Main member	-41.74	-12.88	-0.38	12.1	20.31
	CO232	Connected member	13.29	3.82	0.25	0.42	2.17
	CO232	Continuous member	-25.33	9.77	-10.43	12.08	19.89
	CO232	Connected member	18.63	6.18	1.41	0	0
265	CO233	Main member	-47.78	-12.73	-0.37	12.33	19.84
	CO233	Connected member	12.72	3.84	0.25	0.43	2.19
	CO233	Continuous member	-33.75	7.71	-10.44	12.32	19.42
	CO233	Connected member	15.74	6.19	1.42	0	0
265	CO234	Main member	23.12	13.06	-0.27	-20.63	-30.1
	CO234	Connected member	-6.38	-6.47	0.16	0.34	-3.34
	CO234	Continuous member	-10.68	-18.31	16.61	-20.52	-30.45
	CO234	Connected member	-42.1	-10.59	1.47	0	0
265	CO235	Main member	22.22	12.99	-0.26	-20.31	-30
	CO235	Connected member	-7.43	-6.48	0.17	0.33	-3.35
	CO235	Continuous member	-12.73	-20.22	16.64	-20.2	-30.33
	CO235	Connected member	-43.5	-10.6	1.47	0	0
265	CO236	Main member	21.01	12.94	-0.24	-20.33	-29.73
	CO236	Connected member	-5.92	-6.47	0.17	0.33	-3.33
	CO236	Continuous member	-12.91	-18.06	16.64	-20.22	-30.06
	CO236	Connected member	-42.24	-10.59	1.47	0	0
265	CO237	Main member	22.73	12.96	-0.28	-20.32	-29.88
	CO237	Connected member	-7.91	-6.49	0.18	0.31	-3.36
	CO237	Continuous member	-12.64	-21.03	16.62	-20.21	-30.19
	CO237	Connected member	-44.02	-10.61	1.47	0	0
265	CO238	Main member	9.61	2.2	-0.23	-31.01	-10.62
	CO238	Connected member	0.25	-9.95	0.1	0.69	-5.7
	CO238	Continuous member	-7.72	-11.2	25.52	-30.91	-11.32
	CO238	Connected member	-21.99	-15.95	1.41	0	0
265	CO239	Main member	-41.45	-12.77	-0.34	12.29	20.01
	CO239	Connected member	12.53	3.82	0.25	0.42	2.16
	CO239	Continuous member	-26.23	8.3	-10.4	12.28	19.59
	CO239	Connected member	17.19	6.18	1.41	0	0
265	CO240	Main member	-48.38	-12.85	-0.41	12.11	20.21
	CO240	Connected member	13.77	3.83	0.25	0.42	2.19
	CO240	Continuous member	-32.82	9.7	-10.47	12.1	19.79
	CO240	Connected member	17.61	6.18	1.41	0	0
265	CO241	Main member	-41.96	-12.91	-0.39	12	20.38
	CO241	Connected member	13.34	3.82	0.25	0.42	2.16
	CO241	Continuous member	-25.5	9.82	-10.44	11.99	19.95
	CO241	Connected member	18.69	6.18	1.41	0	0
265	CO242	Main member	-48.01	-12.76	-0.38	12.24	19.91
	CO242	Connected member	12.76	3.83	0.25	0.43	2.19
	CO242	Continuous member	-33.93	7.75	-10.45	12.23	19.48
	CO242	Connected member	15.8	6.19	1.42	0	0
265	CO243	Main member	23.06	13.09	-0.27	-20.72	-30.21
	CO243	Connected member	-6.37	-6.47	0.16	0.35	-3.34
	CO243	Continuous member	-10.88	-18.37	16.61	-20.62	-30.57
	CO243	Connected member	-42.26	-10.59	1.47	0	0
265	CO244	Main member	22.14	13.02	-0.26	-20.4	-30.11
	CO244	Connected member	-7.42	-6.48	0.17	0.34	-3.35
	CO244	Continuous member	-12.93	-20.27	16.64	-20.29	-30.45
	CO244	Connected member	-43.65	-10.6	1.47	0	0
265	CO245	Main member	20.94	12.96	-0.24	-20.42	-29.84
	CO245	Connected member	-5.92	-6.47	0.16	0.33	-3.33
	CO245	Continuous member	-13.11	-18.12	16.64	-20.31	-30.17
	CO245	Connected member	-42.4	-10.59	1.47	0	0
265	CO246	Main member	22.65	12.99	-0.29	-20.42	-29.98
	CO246	Connected member	-7.9	-6.49	0.18	0.32	-3.36
	CO246	Continuous member	-12.85	-21.08	16.62	-20.31	-30.3
	CO246	Connected member	-44.17	-10.61	1.47	0	0
265	CO247	Main member	9.5	2.2	-0.23	-31.1	-10.67
	CO247	Connected member	0.27	-9.95	0.1	0.7	-5.7
	CO247	Continuous member	-7.91	-11.23	25.52	-31	-11.37
	CO247	Connected member	-22.08	-15.96	1.41	0	0
265	CO248	Main member	-41.67	-12.81	-0.36	12.19	20.08
	CO248	Connected member	12.57	3.82	0.25	0.42	2.16
	CO248	Continuous member	-26.4	8.34	-10.41	12.18	19.65
	CO248	Connected member	17.25	6.18	1.41	0	0
265	CO249	Main member	-48.61	-12.89	-0.42	12.02	20.28
	CO249	Connected member	13.81	3.83	0.24	0.42	2.19



::LAV/team::

Page: 200/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO249	Continuous member	-32.99	9.74	-10.48	12.01	19.86
	CO249	Connected member	17.68	6.18	1.41	0	0
	CO250	Main member	-42.63	-12.91	-0.39	12	20.37
265	CO250	Connected member	13.39	3.82	0.25	0.42	2.16
	CO250	Continuous member	-26.25	9.81	-10.44	11.99	19.94
	CO250	Connected member	18.59	6.18	1.41	0	0
265	CO251	Main member	-48.68	-12.76	-0.38	12.24	19.9
	CO251	Connected member	12.81	3.84	0.25	0.43	2.19
	CO251	Continuous member	-34.68	7.75	-10.45	12.23	19.48
265	CO251	Connected member	15.7	6.19	1.42	0	0
	CO252	Main member	22.38	13.09	-0.27	-20.73	-30.21
	CO252	Connected member	-6.32	-6.47	0.16	0.35	-3.34
265	CO252	Continuous member	-11.63	-18.36	16.61	-20.62	-30.56
	CO252	Connected member	-42.34	-10.59	1.47	0	0
265	CO253	Main member	21.47	13.02	-0.26	-20.4	-30.11
	CO253	Connected member	-7.37	-6.48	0.17	0.34	-3.35
	CO253	Continuous member	-13.68	-20.27	16.64	-20.29	-30.45
265	CO253	Connected member	-43.74	-10.6	1.47	0	0
	CO254	Main member	20.26	12.96	-0.24	-20.43	-29.84
	CO254	Connected member	-5.87	-6.47	0.16	0.33	-3.33
265	CO254	Continuous member	-13.85	-18.11	16.64	-20.32	-30.17
	CO254	Connected member	-42.48	-10.59	1.47	0	0
265	CO255	Main member	21.97	12.99	-0.29	-20.42	-29.98
	CO255	Connected member	-7.85	-6.49	0.18	0.32	-3.36
	CO255	Continuous member	-13.59	-21.08	16.62	-20.31	-30.3
265	CO255	Connected member	-44.26	-10.61	1.47	0	0
	CO256	Main member	8.82	2.2	-0.23	-31.1	-10.68
	CO256	Connected member	0.32	-9.95	0.1	0.7	-5.7
265	CO256	Continuous member	-8.66	-11.23	25.52	-31	-11.38
	CO256	Connected member	-22.17	-15.96	1.41	0	0
265	CO257	Main member	-42.34	-12.8	-0.36	12.2	20.07
	CO257	Connected member	12.62	3.82	0.25	0.43	2.16
	CO257	Continuous member	-27.15	8.33	-10.41	12.18	19.64
265	CO257	Connected member	17.15	6.18	1.41	0	0
	CO258	Main member	-49.28	-12.89	-0.42	12.02	20.27
	CO258	Connected member	13.86	3.83	0.24	0.42	2.19
265	CO258	Continuous member	-33.74	9.73	-10.49	12.01	19.85
	CO258	Connected member	17.58	6.18	1.41	0	0
265	CO259	Main member	-41.97	-12.92	-0.39	11.98	20.39
	CO259	Connected member	13.35	3.82	0.25	0.42	2.16
	CO259	Continuous member	-25.5	9.83	-10.44	11.97	19.97
265	CO259	Connected member	18.71	6.18	1.41	0	0
	CO260	Main member	-48.02	-12.77	-0.38	12.22	19.93
	CO260	Connected member	12.77	3.83	0.25	0.43	2.19
265	CO260	Continuous member	-33.93	7.76	-10.45	12.21	19.5
	CO260	Connected member	15.82	6.19	1.42	0	0
265	CO261	Main member	23.07	13.1	-0.27	-20.74	-30.24
	CO261	Connected member	-6.38	-6.47	0.16	0.35	-3.34
	CO261	Continuous member	-10.89	-18.38	16.61	-20.64	-30.59
265	CO261	Connected member	-42.29	-10.59	1.47	0	0
	CO262	Main member	22.16	13.03	-0.26	-20.42	-30.13
	CO262	Connected member	-7.42	-6.48	0.17	0.34	-3.35
265	CO262	Continuous member	-12.94	-20.29	16.64	-20.31	-30.47
	CO262	Connected member	-43.68	-10.6	1.47	0	0
265	CO263	Main member	20.95	12.97	-0.24	-20.44	-29.86
	CO263	Connected member	-5.92	-6.47	0.16	0.34	-3.33
	CO263	Continuous member	-13.11	-18.13	16.64	-20.33	-30.2
265	CO263	Connected member	-42.42	-10.59	1.47	0	0
	CO264	Main member	22.66	12.99	-0.29	-20.44	-30
	CO264	Connected member	-7.9	-6.49	0.18	0.32	-3.36
265	CO264	Continuous member	-12.86	-21.09	16.62	-20.33	-30.33
	CO264	Connected member	-44.2	-10.61	1.47	0	0
265	CO265	Main member	9.51	2.2	-0.23	-31.12	-10.68
	CO265	Connected member	0.28	-9.95	0.1	0.7	-5.7
	CO265	Continuous member	-7.92	-11.24	25.52	-31.02	-11.39
265	CO265	Connected member	-22.1	-15.96	1.41	0	0
	CO266	Main member	-41.69	-12.82	-0.36	12.17	20.09
	CO266	Connected member	12.58	3.82	0.25	0.43	2.16
265	CO266	Continuous member	-26.4	8.35	-10.41	12.16	19.67
	CO266	Connected member	17.27	6.18	1.41	0	0
265	CO267	Main member	-48.63	-12.9	-0.42	12	20.3
	CO267	Connected member	13.82	3.83	0.24	0.42	2.19
	CO267	Continuous member	-32.99	9.75	-10.48	11.99	19.87
265	CO267	Connected member	17.7	6.18	1.41	0	0
	CO268	Main member	-42.65	-12.92	-0.4	11.98	20.38
	CO268	Connected member	13.39	3.82	0.25	0.42	2.16
265	CO268	Continuous member	-26.26	9.82	-10.44	11.97	19.96
	CO268	Connected member	18.61	6.18	1.41	0	0
265	CO269	Main member	-48.69	-12.77	-0.38	12.22	19.92
	CO269	Connected member	12.81	3.83	0.25	0.43	2.19
	CO269	Continuous member	-34.69	7.76	-10.46	12.21	19.49
265	CO269	Connected member	15.72	6.19	1.42	0	0
	CO270	Main member	22.4	13.09	-0.28	-20.75	-30.24
	CO270	Connected member	-6.32	-6.47	0.16	0.35	-3.34
265	CO270	Continuous member	-11.63	-18.38	16.61	-20.64	-30.59
	CO270	Connected member	-42.37	-10.59	1.47	0	0
265	CO271	Main member	21.48	13.02	-0.26	-20.43	-30.13
	CO271	Connected member	-7.37	-6.48	0.17	0.34	-3.35
	CO271	Continuous member	-13.69	-20.29	16.64	-20.32	-30.47
265	CO271	Connected member	-43.77	-10.6	1.47	0	0
	CO272	Main member	20.28	12.97	-0.24	-20.45	-29.86
	CO272	Connected member	-5.87	-6.47	0.16	0.34	-3.33
265	CO272	Continuous member	-13.86	-18.13	16.64	-20.34	-30.2
	CO272	Connected member	-42.51	-10.59	1.47	0	0



::LAV/team::

Page: 201/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO273	Main member	21.99	12.99	-0.29	-20.44	-30
	CO273	Connected member	-7.85	-6.49	0.18	0.32	-3.36
	CO273	Continuous member	-13.6	-21.09	16.61	-20.33	-30.33
	CO273	Connected member	-44.29	-10.61	1.47	0	0
265	CO274	Main member	8.83	2.2	-0.23	-31.12	-10.69
	CO274	Connected member	0.32	-9.95	0.1	0.7	-5.7
	CO274	Continuous member	-8.67	-11.24	25.52	-31.02	-11.39
	CO274	Connected member	-22.18	-15.96	1.41	0	0
265	CO275	Main member	-42.36	-12.81	-0.36	12.17	20.08
	CO275	Connected member	12.63	3.82	0.25	0.43	2.16
	CO275	Continuous member	-27.15	8.34	-10.41	12.16	19.66
	CO275	Connected member	17.17	6.18	1.41	0	0
265	CO276	Main member	-49.3	-12.89	-0.43	12	20.29
	CO276	Connected member	13.87	3.83	0.24	0.42	2.19
	CO276	Continuous member	-33.74	9.74	-10.49	11.99	19.86
	CO276	Connected member	17.6	6.18	1.41	0	0
265	CO277	Main member	-41.77	-12.89	-0.39	12.06	20.34
	CO277	Connected member	13.31	3.82	0.25	0.42	2.16
	CO277	Continuous member	-25.33	9.79	-10.43	12.05	19.92
	CO277	Connected member	18.66	6.18	1.41	0	0
265	CO278	Main member	-47.82	-12.74	-0.37	12.29	19.87
	CO278	Connected member	12.73	3.84	0.25	0.43	2.19
	CO278	Continuous member	-33.76	7.73	-10.44	12.28	19.45
	CO278	Connected member	15.78	6.19	1.42	0	0
265	CO279	Main member	23.15	13.07	-0.27	-20.67	-30.15
	CO279	Connected member	-6.38	-6.47	0.16	0.35	-3.34
	CO279	Continuous member	-10.7	-18.33	16.61	-20.56	-30.49
	CO279	Connected member	-42.16	-10.59	1.47	0	0
265	CO280	Main member	22.25	13	-0.26	-20.35	-30.05
	CO280	Connected member	-7.43	-6.48	0.17	0.33	-3.35
	CO280	Continuous member	-12.75	-20.24	16.64	-20.24	-30.38
	CO280	Connected member	-43.55	-10.6	1.47	0	0
265	CO281	Main member	21.04	12.95	-0.24	-20.37	-29.78
	CO281	Connected member	-5.93	-6.47	0.16	0.33	-3.33
	CO281	Continuous member	-12.92	-18.08	16.64	-20.26	-30.11
	CO281	Connected member	-42.3	-10.59	1.47	0	0
265	CO282	Main member	22.75	12.97	-0.29	-20.36	-29.92
	CO282	Connected member	-7.91	-6.49	0.18	0.32	-3.36
	CO282	Continuous member	-12.66	-21.05	16.62	-20.25	-30.24
	CO282	Connected member	-44.08	-10.61	1.47	0	0
265	CO283	Main member	9.62	2.2	-0.23	-31.04	-10.64
	CO283	Connected member	0.26	-9.95	0.1	0.7	-5.7
	CO283	Continuous member	-7.74	-11.21	25.52	-30.95	-11.34
	CO283	Connected member	-22.02	-15.95	1.41	0	0
265	CO284	Main member	-41.48	-12.79	-0.35	12.25	20.04
	CO284	Connected member	12.54	3.82	0.25	0.42	2.16
	CO284	Continuous member	-26.23	8.32	-10.4	12.24	19.61
	CO284	Connected member	17.23	6.18	1.41	0	0
265	CO285	Main member	-48.42	-12.87	-0.41	12.07	20.24
	CO285	Connected member	13.78	3.83	0.25	0.42	2.19
	CO285	Continuous member	-32.82	9.71	-10.48	12.06	19.82
	CO285	Connected member	17.65	6.18	1.41	0	0
265	CO286	Main member	-42.44	-12.89	-0.39	12.06	20.33
	CO286	Connected member	13.36	3.82	0.25	0.42	2.17
	CO286	Continuous member	-26.09	9.79	-10.44	12.05	19.91
	CO286	Connected member	18.56	6.18	1.41	0	0
265	CO287	Main member	-48.48	-12.74	-0.38	12.3	19.86
	CO287	Connected member	12.78	3.84	0.25	0.43	2.19
	CO287	Continuous member	-34.51	7.72	-10.45	12.28	19.44
	CO287	Connected member	15.68	6.19	1.42	0	0
265	CO288	Main member	22.48	13.07	-0.27	-20.67	-30.15
	CO288	Connected member	-6.33	-6.47	0.16	0.34	-3.33
	CO288	Continuous member	-11.44	-18.33	16.61	-20.56	-30.49
	CO288	Connected member	-42.24	-10.59	1.47	0	0
265	CO289	Main member	21.57	13	-0.26	-20.35	-30.04
	CO289	Connected member	-7.38	-6.48	0.17	0.33	-3.35
	CO289	Continuous member	-13.49	-20.24	16.64	-20.24	-30.38
	CO289	Connected member	-43.64	-10.6	1.47	0	0
265	CO290	Main member	20.36	12.95	-0.24	-20.37	-29.78
	CO290	Connected member	-5.88	-6.47	0.17	0.33	-3.33
	CO290	Continuous member	-13.67	-18.08	16.64	-20.26	-30.1
	CO290	Connected member	-42.38	-10.59	1.47	0	0
265	CO291	Main member	22.08	12.97	-0.29	-20.36	-29.92
	CO291	Connected member	-7.86	-6.48	0.18	0.32	-3.35
	CO291	Continuous member	-13.4	-21.05	16.62	-20.25	-30.24
	CO291	Connected member	-44.16	-10.61	1.47	0	0
265	CO292	Main member	8.95	2.2	-0.23	-31.05	-10.65
	CO292	Connected member	0.31	-9.95	0.1	0.7	-5.69
	CO292	Continuous member	-8.48	-11.22	25.52	-30.95	-11.34
	CO292	Connected member	-22.11	-15.96	1.41	0	0
265	CO293	Main member	-42.15	-12.78	-0.35	12.25	20.03
	CO293	Connected member	12.59	3.82	0.25	0.42	2.16
	CO293	Continuous member	-26.98	8.31	-10.41	12.24	19.6
	CO293	Connected member	17.13	6.18	1.41	0	0
265	CO294	Main member	-49.09	-12.86	-0.42	12.07	20.23
	CO294	Connected member	13.83	3.83	0.25	0.42	2.19
	CO294	Continuous member	-33.57	9.71	-10.48	12.06	19.81
	CO294	Connected member	17.55	6.18	1.41	0	0
265	CO295	Main member	-41.75	-12.88	-0.38	12.08	20.32
	CO295	Connected member	13.3	3.82	0.25	0.42	2.17
	CO295	Continuous member	-25.33	9.78	-10.43	12.07	19.9
	CO295	Connected member	18.65	6.18	1.41	0	0
265	CO296	Main member	-47.8	-12.73	-0.37	12.32	19.86
	CO296	Connected member	12.72	3.84	0.25	0.43	2.19



::LAV/team::

Page: 202/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO296	Continuous member	-33.76	7.72	-10.44	12.3	19.43
	CO296	Connected member	15.76	6.19	1.42	0	0
	CO297	Main member	23.14	13.07	-0.27	-20.65	-30.12
265	CO297	Connected member	-6.38	-6.47	0.16	0.34	-3.34
	CO297	Continuous member	-10.69	-18.32	16.61	-20.54	-30.47
	CO297	Connected member	-42.13	-10.59	1.47	0	0
265	CO298	Main member	22.23	13	-0.26	-20.33	-30.02
	CO298	Connected member	-7.43	-6.48	0.17	0.33	-3.35
	CO298	Continuous member	-12.74	-20.23	16.64	-20.22	-30.36
265	CO298	Connected member	-43.52	-10.6	1.47	0	0
	CO299	Main member	21.02	12.94	-0.24	-20.35	-29.75
	CO299	Connected member	-5.93	-6.47	0.17	0.33	-3.33
265	CO299	Continuous member	-12.91	-18.07	16.64	-20.24	-30.08
	CO299	Connected member	-42.27	-10.59	1.47	0	0
265	CO300	Main member	22.74	12.97	-0.28	-20.34	-29.9
	CO300	Connected member	-7.91	-6.49	0.18	0.31	-3.36
	CO300	Continuous member	-12.65	-21.04	16.62	-20.23	-30.21
265	CO300	Connected member	-44.05	-10.61	1.47	0	0
	CO301	Main member	9.61	2.2	-0.23	-31.02	-10.63
	CO301	Connected member	0.25	-9.95	0.1	0.7	-5.7
265	CO301	Continuous member	-7.73	-11.21	25.52	-30.92	-11.33
	CO301	Connected member	-22	-15.95	1.41	0	0
265	CO302	Main member	-41.47	-12.78	-0.35	12.27	20.02
	CO302	Connected member	12.53	3.82	0.25	0.42	2.16
	CO302	Continuous member	-26.23	8.31	-10.4	12.26	19.6
265	CO302	Connected member	17.21	6.18	1.41	0	0
	CO303	Main member	-48.4	-12.86	-0.41	12.09	20.23
	CO303	Connected member	13.77	3.83	0.25	0.42	2.19
265	CO303	Continuous member	-32.82	9.7	-10.47	12.08	19.8
	CO303	Connected member	17.63	6.18	1.41	0	0
265	CO304	Main member	-42.42	-12.88	-0.39	12.08	20.31
	CO304	Connected member	13.35	3.82	0.25	0.42	2.17
	CO304	Continuous member	-26.09	9.78	-10.44	12.07	19.89
265	CO304	Connected member	18.55	6.18	1.41	0	0
	CO305	Main member	-48.47	-12.73	-0.37	12.32	19.85
	CO305	Connected member	12.77	3.84	0.25	0.43	2.19
265	CO305	Continuous member	-34.51	7.72	-10.45	12.31	19.42
	CO305	Connected member	15.66	6.19	1.42	0	0
	CO306	Main member	22.46	13.07	-0.27	-20.65	-30.12
265	CO306	Connected member	-6.33	-6.47	0.16	0.34	-3.33
	CO306	Continuous member	-11.43	-18.32	16.61	-20.54	-30.47
	CO306	Connected member	-42.21	-10.59	1.47	0	0
265	CO307	Main member	21.55	13	-0.26	-20.33	-30.02
	CO307	Connected member	-7.38	-6.48	0.17	0.33	-3.35
	CO307	Continuous member	-13.48	-20.23	16.64	-20.22	-30.35
265	CO307	Connected member	-43.61	-10.6	1.47	0	0
	CO308	Main member	20.35	12.94	-0.24	-20.35	-29.75
	CO308	Connected member	-5.87	-6.47	0.17	0.33	-3.33
265	CO308	Continuous member	-13.66	-18.07	16.64	-20.24	-30.08
	CO308	Connected member	-42.35	-10.59	1.47	0	0
265	CO309	Main member	22.07	12.97	-0.29	-20.34	-29.9
	CO309	Connected member	-7.86	-6.48	0.18	0.31	-3.35
	CO309	Continuous member	-13.39	-21.03	16.62	-20.23	-30.21
265	CO309	Connected member	-44.13	-10.61	1.47	0	0
	CO310	Main member	8.94	2.2	-0.23	-31.03	-10.64
	CO310	Connected member	0.3	-9.95	0.1	0.69	-5.69
265	CO310	Continuous member	-8.47	-11.21	25.52	-30.93	-11.33
	CO310	Connected member	-22.09	-15.96	1.41	0	0
265	CO311	Main member	-42.14	-12.77	-0.35	12.27	20.01
	CO311	Connected member	12.58	3.82	0.25	0.42	2.17
	CO311	Continuous member	-26.98	8.3	-10.41	12.26	19.59
265	CO311	Connected member	17.11	6.18	1.41	0	0
	CO312	Main member	-49.07	-12.86	-0.41	12.09	20.22
	CO312	Connected member	13.82	3.83	0.25	0.42	2.19
265	CO312	Continuous member	-33.57	9.7	-10.48	12.08	19.79
	CO312	Connected member	17.53	6.18	1.41	0	0
265	CO313	Main member	-4.76	-0.01	-0.12	-0.05	-0.11
	CO313	Connected member	0.86	0	0.37	-0.3	0
	CO313	Continuous member	-3.37	0.25	-0.12	-0.05	0.19
265	CO313	Connected member	0.51	0	1.07	0	0
	CO314	Main member	-4.95	-0.02	-0.13	-0.13	-0.08
	CO314	Connected member	0.88	0	0.37	-0.3	-0.01
265	CO314	Continuous member	-3.54	0.27	-0.12	-0.13	0.22
	CO314	Connected member	0.53	0	1.07	0	0
265	CO315	Main member	-4.96	-0.03	-0.13	-0.15	-0.08
	CO315	Connected member	0.88	0	0.37	-0.3	-0.01
	CO315	Continuous member	-3.54	0.28	-0.13	-0.15	0.22
265	CO315	Connected member	0.54	0	1.07	0	0
	CO316	Main member	-4.77	-0.01	-0.12	-0.07	-0.1
	CO316	Connected member	0.86	0	0.37	-0.3	0
265	CO316	Continuous member	-3.37	0.26	-0.12	-0.07	0.2
	CO316	Connected member	0.52	0	1.07	0	0
265	CO317	Main member	-4.84	-0.04	-0.13	-0.21	-0.05
	CO317	Connected member	0.88	-0.01	0.37	-0.3	-0.01
	CO317	Continuous member	-3.37	0.3	-0.13	-0.2	0.24
265	CO317	Connected member	0.6	0	1.07	0	0
	CO318	Main member	-5.03	-0.05	-0.14	-0.28	-0.03
	CO318	Connected member	0.9	-0.01	0.37	-0.3	-0.02
265	CO318	Continuous member	-3.54	0.32	-0.13	-0.28	0.27
	CO318	Connected member	0.62	0	1.07	0	0
265	CO319	Main member	-5.04	-0.05	-0.14	-0.3	-0.02
	CO319	Connected member	0.91	-0.01	0.37	-0.3	-0.02
	CO319	Continuous member	-3.54	0.32	-0.13	-0.3	0.27
265	CO319	Connected member	0.63	0	1.07	0	0



::LAVteam::

Page: 203/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO320	Main member	-4.85	-0.04	-0.14	-0.23	-0.05
	CO320	Connected member	0.88	-0.01	0.37	-0.3	-0.01
	CO320	Continuous member	-3.37	0.3	-0.13	-0.22	0.25
	CO320	Connected member	0.61	0	1.07	0	0
265	CO321	Main member	-5.04	-0.06	-0.14	-0.32	-0.02
	CO321	Connected member	0.91	-0.01	0.37	-0.3	-0.02
	CO321	Continuous member	-3.54	0.33	-0.14	-0.32	0.28
	CO321	Connected member	0.64	0	1.07	0	0
265	CO322	Main member	-5.72	-0.06	-0.15	-0.32	-0.03
	CO322	Connected member	0.96	-0.01	0.37	-0.3	-0.02
	CO322	Continuous member	-4.29	0.32	-0.14	-0.32	0.27
	CO322	Connected member	0.54	0	1.07	0	0
265	CO323	Main member	-5.05	-0.06	-0.15	-0.34	-0.01
	CO323	Connected member	0.91	-0.01	0.37	-0.3	-0.02
	CO323	Continuous member	-3.54	0.33	-0.14	-0.34	0.29
	CO323	Connected member	0.65	0	1.07	0	0
265	CO324	Main member	-5.73	-0.06	-0.15	-0.34	-0.02
	CO324	Connected member	0.96	-0.01	0.37	-0.3	-0.02
	CO324	Continuous member	-4.29	0.33	-0.14	-0.34	0.28
	CO324	Connected member	0.55	0	1.07	0	0
265	CO325	Main member	-4.87	-0.05	-0.14	-0.26	-0.03
	CO325	Connected member	0.89	-0.01	0.37	-0.3	-0.01
	CO325	Continuous member	-3.37	0.31	-0.13	-0.26	0.26
	CO325	Connected member	0.63	0	1.07	0	0
265	CO326	Main member	-5.54	-0.05	-0.14	-0.26	-0.04
	CO326	Connected member	0.94	-0.01	0.37	-0.3	-0.01
	CO326	Continuous member	-4.13	0.31	-0.14	-0.26	0.25
	CO326	Connected member	0.53	0	1.07	0	0
265	CO327	Main member	-26.28	-7.81	-0.26	7	12.31
	CO327	Connected member	8.23	2.29	0.22	0.2	1.29
	CO327	Continuous member	-16.01	6.01	-6.3	6.99	12.11
	CO327	Connected member	11.46	3.73	1.06	0	0
265	CO328	Main member	-29.92	-7.73	-0.25	7.13	12.04
	CO328	Connected member	7.88	2.3	0.22	0.2	1.31
	CO328	Continuous member	-21.07	4.78	-6.3	7.13	11.84
	CO328	Connected member	9.74	3.73	1.06	0	0
265	CO329	Main member	12.86	7.85	-0.16	-12.59	-18.22
	CO329	Connected member	-3.66	-3.88	0.16	0.16	-2
	CO329	Continuous member	-7.28	-11.01	9.9	-12.52	-18.38
	CO329	Connected member	-25.32	-6.25	1.08	0	0
265	CO330	Main member	12.38	7.83	-0.16	-12.39	-18.23
	CO330	Connected member	-4.31	-3.88	0.16	0.16	-2
	CO330	Continuous member	-8.54	-12.2	9.92	-12.33	-18.39
	CO330	Connected member	-26.26	-6.26	1.09	0	0
265	CO331	Main member	11.65	7.79	-0.15	-12.4	-18.06
	CO331	Connected member	-3.39	-3.88	0.16	0.16	-1.99
	CO331	Continuous member	-8.64	-10.9	9.92	-12.34	-18.22
	CO331	Connected member	-25.5	-6.25	1.08	0	0
265	CO332	Main member	12.74	7.84	-0.17	-12.4	-18.22
	CO332	Connected member	-4.61	-3.88	0.17	0.15	-2.01
	CO332	Continuous member	-8.51	-12.74	9.9	-12.33	-18.38
	CO332	Connected member	-26.68	-6.26	1.09	0	0
265	CO333	Main member	4.78	1.32	-0.15	-18.83	-6.56
	CO333	Connected member	0.32	-5.97	0.12	0.38	-3.42
	CO333	Continuous member	-5.54	-6.79	15.26	-18.77	-6.94
	CO333	Connected member	-13.34	-9.5	1.06	0	0
265	CO334	Main member	-26.12	-7.76	-0.24	7.11	12.14
	CO334	Connected member	7.77	2.29	0.22	0.2	1.29
	CO334	Continuous member	-16.55	5.13	-6.28	7.1	11.94
	CO334	Connected member	10.6	3.73	1.06	0	0
265	CO335	Main member	-30.27	-7.8	-0.27	7	12.25
	CO335	Connected member	8.51	2.3	0.22	0.2	1.31
	CO335	Continuous member	-20.51	5.97	-6.32	6.99	12.06
	CO335	Connected member	10.85	3.73	1.06	0	0
265	CO336	Main member	-26.95	-7.81	-0.26	7	12.3
	CO336	Connected member	8.27	2.29	0.22	0.2	1.29
	CO336	Continuous member	-16.76	6.01	-6.3	6.99	12.1
	CO336	Connected member	11.36	3.73	1.06	0	0
265	CO337	Main member	-30.59	-7.73	-0.25	7.13	12.04
	CO337	Connected member	7.93	2.3	0.22	0.2	1.31
	CO337	Continuous member	-21.83	4.77	-6.3	7.13	11.84
	CO337	Connected member	9.64	3.73	1.06	0	0
265	CO338	Main member	12.18	7.85	-0.17	-12.59	-18.22
	CO338	Connected member	-3.61	-3.88	0.16	0.16	-2
	CO338	Continuous member	-8.03	-11.01	9.9	-12.52	-18.38
	CO338	Connected member	-25.41	-6.25	1.08	0	0
265	CO339	Main member	11.7	7.83	-0.16	-12.39	-18.23
	CO339	Connected member	-4.26	-3.88	0.16	0.16	-2
	CO339	Continuous member	-9.29	-12.2	9.92	-12.33	-18.39
	CO339	Connected member	-26.35	-6.26	1.09	0	0
265	CO340	Main member	10.97	7.79	-0.15	-12.41	-18.06
	CO340	Connected member	-3.34	-3.88	0.16	0.16	-1.99
	CO340	Continuous member	-9.39	-10.9	9.92	-12.34	-18.22
	CO340	Connected member	-25.59	-6.25	1.08	0	0
265	CO341	Main member	12.06	7.84	-0.17	-12.4	-18.23
	CO341	Connected member	-4.56	-3.88	0.17	0.15	-2
	CO341	Continuous member	-9.26	-12.74	9.9	-12.33	-18.38
	CO341	Connected member	-26.77	-6.26	1.09	0	0
265	CO342	Main member	4.11	1.32	-0.15	-18.84	-6.56
	CO342	Connected member	0.37	-5.97	0.12	0.38	-3.42
	CO342	Continuous member	-6.29	-6.79	15.26	-18.78	-6.94
	CO342	Connected member	-13.43	-9.5	1.06	0	0
265	CO343	Main member	-26.79	-7.75	-0.24	7.11	12.13
	CO343	Connected member	7.82	2.29	0.22	0.2	1.29



::LAV/team::

Page: 204/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO343	Continuous member	-17.31	5.12	-6.28	7.1	11.93
	CO343	Connected member	10.5	3.73	1.06	0	0
	CO344	Main member	-30.94	-7.8	-0.27	7	12.24
265	CO344	Connected member	8.56	2.3	0.22	0.2	1.31
	CO344	Continuous member	-21.26	5.96	-6.32	7	12.05
	CO344	Connected member	10.75	3.73	1.06	0	0
265	CO345	Main member	-26.29	-7.82	-0.26	6.98	12.32
	CO345	Connected member	8.23	2.29	0.22	0.2	1.29
	CO345	Continuous member	-16.01	6.02	-6.3	6.97	12.12
265	CO345	Connected member	11.48	3.73	1.06	0	0
	CO346	Main member	-29.94	-7.74	-0.25	7.11	12.06
	CO346	Connected member	7.89	2.3	0.22	0.2	1.31
265	CO346	Continuous member	-21.08	4.78	-6.3	7.1	11.86
	CO346	Connected member	9.75	3.73	1.06	0	0
265	CO347	Main member	12.87	7.85	-0.17	-12.61	-18.23
	CO347	Connected member	-3.66	-3.88	0.16	0.16	-2
	CO347	Continuous member	-7.28	-11.01	9.9	-12.54	-18.39
265	CO347	Connected member	-25.33	-6.25	1.08	0	0
	CO348	Main member	12.38	7.84	-0.16	-12.41	-18.24
	CO348	Connected member	-4.31	-3.88	0.16	0.16	-2
265	CO348	Continuous member	-8.55	-12.21	9.92	-12.35	-18.41
	CO348	Connected member	-26.28	-6.26	1.09	0	0
265	CO349	Main member	11.66	7.79	-0.15	-12.43	-18.07
	CO349	Connected member	-3.39	-3.88	0.16	0.16	-1.99
	CO349	Continuous member	-8.64	-10.9	9.92	-12.36	-18.23
265	CO349	Connected member	-25.51	-6.25	1.08	0	0
	CO350	Main member	12.74	7.84	-0.17	-12.42	-18.23
	CO350	Connected member	-4.61	-3.88	0.17	0.16	-2.01
265	CO350	Continuous member	-8.52	-12.74	9.9	-12.35	-18.39
	CO350	Connected member	-26.69	-6.26	1.09	0	0
265	CO351	Main member	4.78	1.32	-0.15	-18.85	-6.56
	CO351	Connected member	0.33	-5.97	0.12	0.38	-3.42
	CO351	Continuous member	-5.55	-6.79	15.26	-18.79	-6.94
265	CO351	Connected member	-13.35	-9.5	1.06	0	0
	CO352	Main member	-26.13	-7.76	-0.24	7.09	12.15
	CO352	Connected member	7.77	2.29	0.22	0.2	1.29
265	CO352	Continuous member	-16.55	5.14	-6.28	7.08	11.95
	CO352	Connected member	10.62	3.73	1.06	0	0
265	CO353	Main member	-30.29	-7.81	-0.27	6.98	12.27
	CO353	Connected member	8.52	2.3	0.22	0.2	1.31
	CO353	Continuous member	-20.51	5.98	-6.32	6.97	12.07
265	CO353	Connected member	10.87	3.73	1.06	0	0
	CO354	Main member	-26.96	-7.82	-0.26	6.98	12.31
	CO354	Connected member	8.28	2.29	0.22	0.2	1.29
265	CO354	Continuous member	-16.76	6.02	-6.3	6.97	12.11
	CO354	Connected member	11.38	3.73	1.06	0	0
265	CO355	Main member	-30.61	-7.74	-0.25	7.11	12.05
	CO355	Connected member	7.94	2.3	0.22	0.2	1.31
	CO355	Continuous member	-21.83	4.78	-6.31	7.11	11.85
265	CO355	Connected member	9.65	3.73	1.06	0	0
	CO356	Main member	12.19	7.85	-0.17	-12.61	-18.23
	CO356	Connected member	-3.61	-3.88	0.16	0.16	-2
265	CO356	Continuous member	-8.03	-11.02	9.9	-12.54	-18.4
	CO356	Connected member	-25.42	-6.25	1.08	0	0
265	CO357	Main member	11.71	7.84	-0.16	-12.41	-18.25
	CO357	Connected member	-4.26	-3.88	0.16	0.16	-2
	CO357	Continuous member	-9.3	-12.21	9.92	-12.35	-18.41
265	CO357	Connected member	-26.37	-6.26	1.09	0	0
	CO358	Main member	10.98	7.79	-0.15	-12.43	-18.07
	CO358	Connected member	-3.34	-3.88	0.16	0.16	-1.99
265	CO358	Continuous member	-9.39	-10.9	9.92	-12.36	-18.23
	CO358	Connected member	-25.6	-6.25	1.08	0	0
265	CO359	Main member	12.07	7.84	-0.17	-12.42	-18.24
	CO359	Connected member	-4.56	-3.88	0.17	0.16	-2
	CO359	Continuous member	-9.27	-12.74	9.9	-12.35	-18.39
265	CO359	Connected member	-26.78	-6.26	1.09	0	0
	CO360	Main member	4.11	1.32	-0.15	-18.86	-6.57
	CO360	Connected member	0.38	-5.97	0.12	0.38	-3.42
265	CO360	Continuous member	-6.3	-6.79	15.26	-18.8	-6.95
	CO360	Connected member	-13.44	-9.5	1.06	0	0
265	CO361	Main member	-26.8	-7.76	-0.24	7.09	12.14
	CO361	Connected member	7.82	2.29	0.22	0.2	1.29
	CO361	Continuous member	-17.31	5.13	-6.28	7.08	11.94
265	CO361	Connected member	10.52	3.73	1.06	0	0
	CO362	Main member	-30.96	-7.8	-0.28	6.98	12.26
	CO362	Connected member	8.57	2.3	0.22	0.2	1.31
265	CO362	Continuous member	-21.26	5.97	-6.33	6.97	12.06
	CO362	Connected member	10.77	3.73	1.06	0	0
265	CO363	Main member	-26.09	-7.8	-0.25	7.05	12.28
	CO363	Connected member	8.2	2.29	0.22	0.2	1.3
	CO363	Continuous member	-15.84	5.99	-6.29	7.04	12.08
265	CO363	Connected member	11.44	3.73	1.06	0	0
	CO364	Main member	-29.74	-7.72	-0.24	7.19	12.01
	CO364	Connected member	7.86	2.3	0.22	0.2	1.31
265	CO364	Continuous member	-20.91	4.76	-6.3	7.18	11.81
	CO364	Connected member	9.72	3.73	1.06	0	0
265	CO365	Main member	12.99	7.84	-0.16	-12.53	-18.18
	CO365	Connected member	-3.67	-3.88	0.16	0.16	-2
	CO365	Continuous member	-7.1	-10.99	9.91	-12.47	-18.34
265	CO365	Connected member	-25.26	-6.25	1.08	0	0
	CO366	Main member	12.5	7.83	-0.15	-12.34	-18.2
	CO366	Connected member	-4.32	-3.88	0.16	0.16	-2
265	CO366	Continuous member	-8.36	-12.19	9.92	-12.27	-18.36
	CO366	Connected member	-26.21	-6.26	1.09	0	0



::LAV/team::

Page: 205/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO367	Main member	11.78	7.79	-0.14	-12.35	-18.03
	CO367	Connected member	-3.4	-3.88	0.16	0.15	-1.99
	CO367	Continuous member	-8.46	-10.88	9.92	-12.28	-18.18
	CO367	Connected member	-25.44	-6.25	1.08	0	0
265	CO368	Main member	12.87	7.83	-0.17	-12.34	-18.19
	CO368	Connected member	-4.62	-3.88	0.17	0.15	-2
	CO368	Continuous member	-8.34	-12.72	9.91	-12.28	-18.34
	CO368	Connected member	-26.62	-6.26	1.09	0	0
265	CO369	Main member	4.92	1.32	-0.15	-18.78	-6.54
	CO369	Connected member	0.31	-5.97	0.12	0.38	-3.42
	CO369	Continuous member	-5.37	-6.78	15.26	-18.72	-6.92
	CO369	Connected member	-13.3	-9.5	1.06	0	0
265	CO370	Main member	-25.93	-7.74	-0.23	7.17	12.11
	CO370	Connected member	7.74	2.3	0.22	0.2	1.29
	CO370	Continuous member	-16.39	5.11	-6.28	7.16	11.91
	CO370	Connected member	10.58	3.73	1.06	0	0
265	CO371	Main member	-30.09	-7.78	-0.27	7.06	12.22
	CO371	Connected member	8.49	2.3	0.22	0.2	1.31
	CO371	Continuous member	-20.34	5.95	-6.32	7.05	12.03
	CO371	Connected member	10.83	3.73	1.06	0	0
265	CO372	Main member	-26.77	-7.79	-0.25	7.05	12.27
	CO372	Connected member	8.25	2.3	0.22	0.2	1.3
	CO372	Continuous member	-16.6	5.99	-6.3	7.04	12.07
	CO372	Connected member	11.34	3.73	1.06	0	0
265	CO373	Main member	-30.41	-7.71	-0.25	7.19	12.01
	CO373	Connected member	7.91	2.3	0.22	0.2	1.31
	CO373	Continuous member	-21.66	4.75	-6.3	7.18	11.81
	CO373	Connected member	9.62	3.73	1.06	0	0
265	CO374	Main member	12.31	7.84	-0.16	-12.53	-18.19
	CO374	Connected member	-3.62	-3.88	0.16	0.16	-2
	CO374	Continuous member	-7.85	-10.99	9.9	-12.47	-18.35
	CO374	Connected member	-25.35	-6.25	1.08	0	0
265	CO375	Main member	11.83	7.83	-0.15	-12.34	-18.2
	CO375	Connected member	-4.27	-3.88	0.16	0.16	-2
	CO375	Continuous member	-9.11	-12.19	9.92	-12.27	-18.36
	CO375	Connected member	-26.3	-6.26	1.09	0	0
265	CO376	Main member	11.1	7.79	-0.14	-12.35	-18.03
	CO376	Connected member	-3.35	-3.87	0.16	0.15	-1.99
	CO376	Continuous member	-9.21	-10.88	9.92	-12.28	-18.18
	CO376	Connected member	-25.53	-6.25	1.08	0	0
265	CO377	Main member	12.19	7.83	-0.17	-12.35	-18.19
	CO377	Connected member	-4.57	-3.88	0.17	0.15	-2
	CO377	Continuous member	-9.08	-12.72	9.9	-12.28	-18.34
	CO377	Connected member	-26.71	-6.26	1.09	0	0
265	CO378	Main member	4.25	1.32	-0.15	-18.78	-6.55
	CO378	Connected member	0.36	-5.97	0.12	0.38	-3.41
	CO378	Continuous member	-6.12	-6.79	15.26	-18.72	-6.93
	CO378	Connected member	-13.4	-9.5	1.06	0	0
265	CO379	Main member	-26.6	-7.74	-0.23	7.17	12.1
	CO379	Connected member	7.79	2.3	0.22	0.2	1.3
	CO379	Continuous member	-17.14	5.1	-6.28	7.16	11.9
	CO379	Connected member	10.48	3.73	1.06	0	0
265	CO380	Main member	-30.76	-7.78	-0.27	7.06	12.21
	CO380	Connected member	8.53	2.3	0.22	0.2	1.31
	CO380	Continuous member	-21.09	5.94	-6.32	7.05	12.02
	CO380	Connected member	10.73	3.73	1.06	0	0
265	CO381	Main member	-26.25	-7.8	-0.25	7.04	12.28
	CO381	Connected member	8.21	2.29	0.22	0.2	1.29
	CO381	Continuous member	-16.01	6	-6.29	7.03	12.09
	CO381	Connected member	11.43	3.73	1.06	0	0
265	CO382	Main member	-29.9	-7.72	-0.24	7.17	12.02
	CO382	Connected member	7.87	2.3	0.22	0.2	1.31
	CO382	Continuous member	-21.07	4.76	-6.3	7.16	11.82
	CO382	Connected member	9.71	3.73	1.06	0	0
265	CO383	Main member	12.85	7.84	-0.16	-12.55	-18.2
	CO383	Connected member	-3.66	-3.88	0.16	0.16	-2
	CO383	Continuous member	-7.27	-11	9.91	-12.48	-18.36
	CO383	Connected member	-25.29	-6.25	1.08	0	0
265	CO384	Main member	12.36	7.83	-0.15	-12.35	-18.21
	CO384	Connected member	-4.31	-3.88	0.16	0.16	-2
	CO384	Continuous member	-8.53	-12.19	9.92	-12.29	-18.37
	CO384	Connected member	-26.24	-6.26	1.09	0	0
265	CO385	Main member	11.64	7.79	-0.14	-12.37	-18.04
	CO385	Connected member	-3.39	-3.88	0.16	0.16	-1.99
	CO385	Continuous member	-8.63	-10.89	9.92	-12.3	-18.19
	CO385	Connected member	-25.48	-6.25	1.08	0	0
265	CO386	Main member	12.73	7.83	-0.17	-12.36	-18.2
	CO386	Connected member	-4.61	-3.88	0.17	0.15	-2
	CO386	Continuous member	-8.5	-12.73	9.91	-12.3	-18.35
	CO386	Connected member	-26.65	-6.26	1.09	0	0
265	CO387	Main member	4.78	1.32	-0.15	-18.8	-6.55
	CO387	Connected member	0.32	-5.97	0.12	0.38	-3.42
	CO387	Continuous member	-5.54	-6.79	15.26	-18.74	-6.93
	CO387	Connected member	-13.33	-9.5	1.06	0	0
265	CO388	Main member	-26.09	-7.74	-0.23	7.15	12.12
	CO388	Connected member	7.76	2.29	0.22	0.2	1.29
	CO388	Continuous member	-16.55	5.11	-6.28	7.14	11.92
	CO388	Connected member	10.57	3.73	1.06	0	0
265	CO389	Main member	-30.25	-7.79	-0.27	7.04	12.23
	CO389	Connected member	8.5	2.3	0.22	0.2	1.31
	CO389	Continuous member	-20.5	5.95	-6.32	7.03	12.03
	CO389	Connected member	10.82	3.73	1.06	0	0
265	CO390	Main member	-26.27	-7.81	-0.25	7.01	12.3
	CO390	Connected member	8.22	2.29	0.22	0.2	1.29



::LAV/team::

Page: 206/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO390	Continuous member	-16.01	6	-6.3	7.01	12.1
	CO390	Connected member	11.45	3.73	1.06	0	0
	CO391	Main member	-29.91	-7.73	-0.25	7.15	12.03
265	CO391	Connected member	7.88	2.3	0.22	0.2	1.31
	CO391	Continuous member	-21.07	4.77	-6.3	7.14	11.83
	CO391	Connected member	9.72	3.73	1.06	0	0
265	CO392	Main member	12.85	7.85	-0.16	-12.57	-18.21
	CO392	Connected member	-3.66	-3.88	0.16	0.16	-2
	CO392	Continuous member	-7.28	-11	9.9	-12.5	-18.37
265	CO392	Connected member	-25.31	-6.25	1.08	0	0
	CO393	Main member	12.37	7.83	-0.15	-12.37	-18.22
	CO393	Connected member	-4.31	-3.88	0.16	0.16	-2
265	CO393	Continuous member	-8.54	-12.2	9.92	-12.31	-18.38
	CO393	Connected member	-26.25	-6.26	1.09	0	0
265	CO394	Main member	11.64	7.79	-0.15	-12.39	-18.05
	CO394	Connected member	-3.39	-3.88	0.16	0.16	-1.99
	CO394	Continuous member	-8.64	-10.89	9.92	-12.32	-18.21
265	CO394	Connected member	-25.49	-6.25	1.08	0	0
	CO395	Main member	12.73	7.83	-0.17	-12.38	-18.21
	CO395	Connected member	-4.61	-3.88	0.17	0.15	-2.01
265	CO395	Continuous member	-8.51	-12.73	9.9	-12.32	-18.37
	CO395	Connected member	-26.66	-6.26	1.09	0	0
265	CO396	Main member	4.78	1.32	-0.15	-18.82	-6.55
	CO396	Connected member	0.32	-5.97	0.12	0.38	-3.42
	CO396	Continuous member	-5.54	-6.79	15.26	-18.76	-6.94
265	CO396	Connected member	-13.34	-9.5	1.06	0	0
	CO397	Main member	-26.1	-7.75	-0.23	7.13	12.13
	CO397	Connected member	7.76	2.29	0.22	0.2	1.29
265	CO397	Continuous member	-16.55	5.12	-6.28	7.12	11.93
	CO397	Connected member	10.59	3.73	1.06	0	0
265	CO398	Main member	-30.26	-7.79	-0.27	7.02	12.24
	CO398	Connected member	8.51	2.3	0.22	0.2	1.31
	CO398	Continuous member	-20.5	5.96	-6.32	7.01	12.05
265	CO398	Connected member	10.84	3.73	1.06	0	0
	CO399	Main member	-26.07	-7.78	-0.25	7.09	12.25
	CO399	Connected member	8.19	2.3	0.22	0.2	1.3
265	CO399	Continuous member	-15.84	5.97	-6.29	7.08	12.06
	CO399	Connected member	11.41	3.73	1.06	0	0
265	CO400	Main member	-29.71	-7.7	-0.24	7.23	11.99
	CO400	Connected member	7.85	2.3	0.22	0.2	1.31
	CO400	Continuous member	-20.9	4.74	-6.29	7.22	11.79
265	CO400	Connected member	9.69	3.73	1.06	0	0
	CO401	Main member	12.97	7.84	-0.16	-12.49	-18.16
	CO401	Connected member	-3.67	-3.88	0.16	0.16	-2
265	CO401	Continuous member	-7.1	-10.98	9.91	-12.43	-18.32
	CO401	Connected member	-25.23	-6.25	1.08	0	0
265	CO402	Main member	12.49	7.82	-0.15	-12.3	-18.18
	CO402	Connected member	-4.32	-3.88	0.16	0.15	-2
	CO402	Continuous member	-8.35	-12.18	9.92	-12.23	-18.33
265	CO402	Connected member	-26.18	-6.26	1.09	0	0
	CO403	Main member	11.77	7.78	-0.14	-12.31	-18.01
	CO403	Connected member	-3.41	-3.88	0.16	0.15	-1.99
265	CO403	Continuous member	-8.45	-10.87	9.92	-12.25	-18.16
	CO403	Connected member	-25.42	-6.25	1.08	0	0
265	CO404	Main member	12.86	7.83	-0.17	-12.31	-18.17
	CO404	Connected member	-4.62	-3.88	0.17	0.15	-2
	CO404	Continuous member	-8.32	-12.71	9.91	-12.24	-18.32
265	CO404	Connected member	-26.59	-6.26	1.09	0	0
	CO405	Main member	4.92	1.32	-0.15	-18.74	-6.54
	CO405	Connected member	0.3	-5.97	0.12	0.38	-3.41
265	CO405	Continuous member	-5.36	-6.78	15.26	-18.68	-6.91
	CO405	Connected member	-13.29	-9.49	1.06	0	0
265	CO406	Main member	-25.91	-7.73	-0.23	7.2	12.09
	CO406	Connected member	7.73	2.3	0.22	0.2	1.3
	CO406	Continuous member	-16.38	5.09	-6.27	7.2	11.89
265	CO406	Connected member	10.55	3.73	1.06	0	0
	CO407	Main member	-30.06	-7.77	-0.26	7.1	12.2
	CO407	Connected member	8.47	2.3	0.22	0.2	1.31
265	CO407	Continuous member	-20.34	5.93	-6.31	7.09	12
	CO407	Connected member	10.8	3.73	1.06	0	0
265	CO408	Main member	-4.86	-0.04	-0.14	-0.24	-0.04
	CO408	Connected member	0.89	-0.01	0.37	-0.3	-0.01
	CO408	Continuous member	-3.37	0.31	-0.13	-0.24	0.26
265	CO408	Connected member	0.62	0	1.07	0	0
	CO409	Main member	-5.53	-0.04	-0.14	-0.24	-0.05
	CO409	Connected member	0.94	-0.01	0.37	-0.3	-0.01
265	CO409	Continuous member	-4.13	0.3	-0.13	-0.24	0.25
	CO409	Connected member	0.52	0	1.07	0	0
265	CO410	Main member	-26.08	-7.79	-0.25	7.07	12.26
	CO410	Connected member	8.19	2.3	0.22	0.2	1.3
	CO410	Continuous member	-15.84	5.98	-6.29	7.06	12.07
265	CO410	Connected member	11.42	3.73	1.06	0	0
	CO411	Main member	-29.72	-7.71	-0.24	7.21	12
	CO411	Connected member	7.85	2.3	0.22	0.2	1.31
265	CO411	Continuous member	-20.91	4.75	-6.3	7.2	11.8
	CO411	Connected member	9.7	3.73	1.06	0	0
265	CO412	Main member	12.98	7.84	-0.16	-12.51	-18.17
	CO412	Connected member	-3.67	-3.88	0.16	0.16	-2
	CO412	Continuous member	-7.1	-10.99	9.91	-12.45	-18.33
265	CO412	Connected member	-25.25	-6.25	1.08	0	0
	CO413	Main member	12.5	7.83	-0.15	-12.32	-18.19
	CO413	Connected member	-4.32	-3.88	0.16	0.16	-2
265	CO413	Continuous member	-8.36	-12.18	9.92	-12.25	-18.34
	CO413	Connected member	-26.19	-6.26	1.09	0	0



::LAV/team::

Page: 207/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO414	Main member	11.77	7.78	-0.14	-12.33	-18.02
	CO414	Connected member	-3.4	-3.88	0.16	0.15	-1.99
	CO414	Continuous member	-8.46	-10.88	9.92	-12.26	-18.17
	CO414	Connected member	-25.43	-6.25	1.08	0	0
265	CO415	Main member	12.86	7.83	-0.17	-12.32	-18.18
	CO415	Connected member	-4.62	-3.88	0.17	0.15	-2
	CO415	Continuous member	-8.33	-12.71	9.91	-12.26	-18.33
	CO415	Connected member	-26.61	-6.26	1.09	0	0
265	CO416	Main member	4.92	1.32	-0.15	-18.76	-6.54
	CO416	Connected member	0.3	-5.97	0.12	0.38	-3.42
	CO416	Continuous member	-5.37	-6.78	15.26	-18.7	-6.92
	CO416	Connected member	-13.3	-9.5	1.06	0	0
265	CO417	Main member	-25.92	-7.73	-0.23	7.19	12.1
	CO417	Connected member	7.74	2.3	0.22	0.2	1.29
	CO417	Continuous member	-16.39	5.1	-6.27	7.18	11.9
	CO417	Connected member	10.57	3.73	1.06	0	0
265	CO418	Main member	-30.07	-7.78	-0.26	7.08	12.21
	CO418	Connected member	8.48	2.3	0.22	0.2	1.31
	CO418	Continuous member	-20.34	5.94	-6.31	7.07	12.01
	CO418	Connected member	10.81	3.73	1.06	0	0
265	CO419	Main member	-26.75	-7.79	-0.25	7.07	12.26
	CO419	Connected member	8.24	2.3	0.22	0.2	1.3
	CO419	Continuous member	-16.6	5.98	-6.3	7.06	12.06
	CO419	Connected member	11.32	3.73	1.06	0	0
265	CO420	Main member	-30.4	-7.71	-0.24	7.21	11.99
	CO420	Connected member	7.9	2.3	0.22	0.2	1.31
	CO420	Continuous member	-21.66	4.74	-6.3	7.2	11.79
	CO420	Connected member	9.6	3.73	1.06	0	0
265	CO421	Main member	12.3	7.84	-0.16	-12.51	-18.18
	CO421	Connected member	-3.62	-3.88	0.16	0.16	-2
	CO421	Continuous member	-7.85	-10.99	9.9	-12.45	-18.33
	CO421	Connected member	-25.34	-6.25	1.08	0	0
265	CO422	Main member	11.82	7.82	-0.15	-12.32	-18.19
	CO422	Connected member	-4.27	-3.88	0.16	0.16	-2
	CO422	Continuous member	-9.11	-12.18	9.92	-12.25	-18.35
	CO422	Connected member	-26.28	-6.26	1.09	0	0
265	CO423	Main member	11.1	7.78	-0.14	-12.33	-18.02
	CO423	Connected member	-3.35	-3.87	0.16	0.15	-1.99
	CO423	Continuous member	-9.21	-10.88	9.92	-12.26	-18.17
	CO423	Connected member	-25.52	-6.25	1.08	0	0
265	CO424	Main member	12.19	7.83	-0.17	-12.33	-18.18
	CO424	Connected member	-4.57	-3.88	0.17	0.15	-2
	CO424	Continuous member	-9.08	-12.71	9.9	-12.26	-18.33
	CO424	Connected member	-26.69	-6.26	1.09	0	0
265	CO425	Main member	4.25	1.32	-0.15	-18.76	-6.54
	CO425	Connected member	0.35	-5.97	0.12	0.38	-3.41
	CO425	Continuous member	-6.12	-6.78	15.26	-18.7	-6.92
	CO425	Connected member	-13.39	-9.5	1.06	0	0
265	CO426	Main member	-26.59	-7.73	-0.23	7.19	12.09
	CO426	Connected member	7.79	2.3	0.22	0.2	1.3
	CO426	Continuous member	-17.14	5.09	-6.28	7.18	11.89
	CO426	Connected member	10.47	3.73	1.06	0	0
265	CO427	Main member	-30.75	-7.77	-0.27	7.08	12.2
	CO427	Connected member	8.53	2.3	0.22	0.2	1.31
	CO427	Continuous member	-21.09	5.93	-6.32	7.07	12
	CO427	Connected member	10.72	3.73	1.06	0	0
265	CO428	Main member	-26.05	-7.78	-0.25	7.11	12.24
	CO428	Connected member	8.18	2.3	0.22	0.2	1.3
	CO428	Continuous member	-15.84	5.97	-6.29	7.1	12.05
	CO428	Connected member	11.39	3.73	1.06	0	0
265	CO429	Main member	-29.7	-7.7	-0.24	7.25	11.98
	CO429	Connected member	7.84	2.3	0.22	0.2	1.31
	CO429	Continuous member	-20.9	4.73	-6.29	7.24	11.78
	CO429	Connected member	9.67	3.73	1.06	0	0
265	CO430	Main member	12.97	7.84	-0.16	-12.47	-18.15
	CO430	Connected member	-3.67	-3.88	0.16	0.16	-2
	CO430	Continuous member	-7.09	-10.98	9.91	-12.41	-18.31
	CO430	Connected member	-25.22	-6.25	1.08	0	0
265	CO431	Main member	12.49	7.82	-0.15	-12.28	-18.17
	CO431	Connected member	-4.32	-3.88	0.17	0.15	-2
	CO431	Continuous member	-8.35	-12.17	9.92	-12.21	-18.32
	CO431	Connected member	-26.17	-6.26	1.09	0	0
265	CO432	Main member	11.76	7.78	-0.14	-12.29	-17.99
	CO432	Connected member	-3.41	-3.88	0.16	0.15	-1.99
	CO432	Continuous member	-8.45	-10.87	9.92	-12.23	-18.15
	CO432	Connected member	-25.41	-6.25	1.08	0	0
265	CO433	Main member	12.85	7.82	-0.16	-12.29	-18.16
	CO433	Connected member	-4.62	-3.88	0.17	0.15	-2
	CO433	Continuous member	-8.32	-12.7	9.91	-12.22	-18.31
	CO433	Connected member	-26.58	-6.26	1.09	0	0
265	CO434	Main member	4.92	1.33	-0.15	-18.72	-6.53
	CO434	Connected member	0.3	-5.97	0.12	0.38	-3.41
	CO434	Continuous member	-5.36	-6.78	15.27	-18.66	-6.91
	CO434	Connected member	-13.29	-9.49	1.06	0	0
265	CO435	Main member	-25.89	-7.72	-0.22	7.23	12.08
	CO435	Connected member	7.73	2.3	0.22	0.2	1.3
	CO435	Continuous member	-16.38	5.08	-6.27	7.22	11.88
	CO435	Connected member	10.54	3.73	1.06	0	0
265	CO436	Main member	-30.05	-7.76	-0.26	7.12	12.19
	CO436	Connected member	8.47	2.3	0.22	0.2	1.31
	CO436	Continuous member	-20.33	5.92	-6.31	7.11	11.99
	CO436	Connected member	10.79	3.73	1.06	0	0
265	CO437	Main member	-4.8	-0.02	-0.13	-0.13	-0.08
	CO437	Connected member	0.87	0	0.37	-0.3	-0.01



::LAVteam::

Page: 208/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO437	Continuous member	-3.37	0.27	-0.12	-0.13	0.22
	CO437	Connected member	0.55	0	1.07	0	0
	CO438	Main member	-6.15	-0.02	-0.13	-0.13	-0.09
265	CO438	Connected member	0.97	0	0.37	-0.3	0
	CO438	Continuous member	-4.88	0.26	-0.13	-0.13	0.2
	CO438	Connected member	0.36	0	1.07	0	0
265	CO439	Main member	-4.99	-0.04	-0.13	-0.2	-0.06
	CO439	Connected member	0.89	-0.01	0.37	-0.3	-0.01
	CO439	Continuous member	-3.54	0.29	-0.13	-0.2	0.24
265	CO439	Connected member	0.57	0	1.07	0	0
	CO440	Main member	-6.33	-0.03	-0.14	-0.2	-0.07
	CO440	Connected member	0.99	0	0.37	-0.3	-0.01
265	CO440	Continuous member	-5.04	0.29	-0.13	-0.2	0.23
	CO440	Connected member	0.38	0	1.07	0	0
265	CO441	Main member	-5	-0.04	-0.14	-0.22	-0.05
	CO441	Connected member	0.89	-0.01	0.37	-0.3	-0.01
	CO441	Continuous member	-3.54	0.3	-0.13	-0.22	0.25
265	CO441	Connected member	0.59	0	1.07	0	0
	CO442	Main member	-6.34	-0.04	-0.14	-0.22	-0.06
	CO442	Connected member	0.99	0	0.37	-0.3	-0.01
265	CO442	Continuous member	-5.05	0.29	-0.14	-0.22	0.23
	CO442	Connected member	0.39	0	1.07	0	0
265	CO443	Main member	-4.81	-0.03	-0.13	-0.15	-0.07
	CO443	Connected member	0.87	0	0.37	-0.3	-0.01
	CO443	Continuous member	-3.37	0.28	-0.13	-0.15	0.22
265	CO443	Connected member	0.56	0	1.07	0	0
	CO444	Main member	-6.16	-0.02	-0.13	-0.15	-0.09
	CO444	Connected member	0.97	0	0.37	-0.3	0
265	CO444	Continuous member	-4.88	0.27	-0.13	-0.15	0.21
	CO444	Connected member	0.37	0	1.07	0	0
265	CO445	Main member	-26.2	-7.78	-0.25	7.11	12.24
	CO445	Connected member	8.19	2.3	0.22	0.2	1.3
	CO445	Continuous member	-16.01	5.97	-6.29	7.1	12.04
265	CO445	Connected member	11.37	3.73	1.06	0	0
	CO446	Main member	-29.84	-7.7	-0.24	7.25	11.98
	CO446	Connected member	7.85	2.3	0.22	0.2	1.31
265	CO446	Continuous member	-21.07	4.73	-6.29	7.24	11.78
	CO446	Connected member	9.65	3.73	1.06	0	0
	CO447	Main member	12.82	7.84	-0.16	-12.47	-18.15
265	CO447	Connected member	-3.66	-3.88	0.16	0.16	-2
	CO447	Continuous member	-7.25	-10.98	9.91	-12.41	-18.31
	CO447	Connected member	-25.24	-6.25	1.08	0	0
265	CO448	Main member	12.34	7.82	-0.15	-12.28	-18.17
	CO448	Connected member	-4.31	-3.88	0.17	0.15	-2
	CO448	Continuous member	-8.51	-12.17	9.92	-12.21	-18.32
265	CO448	Connected member	-26.19	-6.26	1.09	0	0
	CO449	Main member	11.62	7.78	-0.14	-12.29	-18
	CO449	Connected member	-3.39	-3.88	0.16	0.15	-1.99
265	CO449	Continuous member	-8.61	-10.87	9.93	-12.22	-18.15
	CO449	Connected member	-25.43	-6.25	1.08	0	0
265	CO450	Main member	12.71	7.82	-0.16	-12.29	-18.16
	CO450	Connected member	-4.61	-3.88	0.17	0.15	-2
	CO450	Continuous member	-8.48	-12.7	9.91	-12.22	-18.31
265	CO450	Connected member	-26.6	-6.26	1.09	0	0
	CO451	Main member	4.77	1.33	-0.15	-18.72	-6.53
	CO451	Connected member	0.31	-5.97	0.12	0.38	-3.42
265	CO451	Continuous member	-5.52	-6.78	15.27	-18.66	-6.91
	CO451	Connected member	-13.31	-9.5	1.06	0	0
265	CO452	Main member	-26.04	-7.72	-0.22	7.23	12.07
	CO452	Connected member	7.74	2.3	0.22	0.2	1.3
	CO452	Continuous member	-16.55	5.08	-6.27	7.22	11.88
265	CO452	Connected member	10.52	3.73	1.06	0	0
	CO453	Main member	-30.19	-7.76	-0.26	7.12	12.19
	CO453	Connected member	8.48	2.3	0.22	0.2	1.31
265	CO453	Continuous member	-20.5	5.92	-6.31	7.11	11.99
	CO453	Connected member	10.76	3.73	1.06	0	0
265	CO454	Main member	-27.54	-7.77	-0.25	7.11	12.22
	CO454	Connected member	8.29	2.3	0.22	0.2	1.3
	CO454	Continuous member	-17.51	5.96	-6.3	7.11	12.03
265	CO454	Connected member	11.17	3.73	1.06	0	0
	CO455	Main member	-31.18	-7.69	-0.24	7.25	11.96
	CO455	Connected member	7.95	2.31	0.22	0.2	1.32
265	CO455	Continuous member	-22.57	4.72	-6.3	7.24	11.76
	CO455	Connected member	9.45	3.73	1.06	0	0
	CO456	Main member	11.47	7.83	-0.16	-12.48	-18.16
265	CO456	Connected member	-3.56	-3.88	0.16	0.16	-1.99
	CO456	Continuous member	-8.75	-10.98	9.9	-12.41	-18.31
	CO456	Connected member	-25.42	-6.25	1.08	0	0
265	CO457	Main member	10.99	7.82	-0.15	-12.28	-18.17
	CO457	Connected member	-4.21	-3.88	0.17	0.15	-2
	CO457	Continuous member	-10.01	-12.17	9.92	-12.21	-18.33
265	CO457	Connected member	-26.37	-6.26	1.09	0	0
	CO458	Main member	10.27	7.78	-0.14	-12.29	-18
	CO458	Connected member	-3.29	-3.87	0.16	0.15	-1.99
265	CO458	Continuous member	-10.11	-10.87	9.92	-12.23	-18.15
	CO458	Connected member	-25.61	-6.25	1.08	0	0
265	CO459	Main member	11.36	7.82	-0.17	-12.29	-18.17
	CO459	Connected member	-4.51	-3.88	0.17	0.15	-2
	CO459	Continuous member	-9.98	-12.71	9.9	-12.22	-18.31
265	CO459	Connected member	-26.78	-6.26	1.09	0	0
	CO460	Main member	3.43	1.33	-0.15	-18.72	-6.54
	CO460	Connected member	0.41	-5.97	0.12	0.38	-3.41
	CO460	Continuous member	-7.02	-6.78	15.26	-18.66	-6.92
	CO460	Connected member	-13.49	-9.5	1.06	0	0



::LAV/team::

Page: 209/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO461	Main member	-27.38	-7.72	-0.23	7.23	12.06
	CO461	Connected member	7.84	2.3	0.22	0.2	1.3
	CO461	Continuous member	-18.05	5.07	-6.28	7.22	11.86
	CO461	Connected member	10.32	3.73	1.06	0	0
265	CO462	Main member	-31.53	-7.76	-0.27	7.12	12.17
	CO462	Connected member	8.58	2.3	0.22	0.2	1.32
	CO462	Continuous member	-22	5.91	-6.32	7.11	11.97
	CO462	Connected member	10.56	3.73	1.06	0	0
265	CO463	Main member	-26.21	-7.78	-0.25	7.09	12.25
	CO463	Connected member	8.2	2.3	0.22	0.2	1.3
	CO463	Continuous member	-16.01	5.97	-6.29	7.08	12.06
	CO463	Connected member	11.39	3.73	1.06	0	0
265	CO464	Main member	-29.86	-7.7	-0.24	7.23	11.99
	CO464	Connected member	7.86	2.3	0.22	0.2	1.31
	CO464	Continuous member	-21.07	4.74	-6.29	7.22	11.79
	CO464	Connected member	9.67	3.73	1.06	0	0
265	CO465	Main member	12.83	7.84	-0.16	-12.49	-18.16
	CO465	Connected member	-3.66	-3.88	0.16	0.16	-2
	CO465	Continuous member	-7.26	-10.98	9.91	-12.43	-18.32
	CO465	Connected member	-25.26	-6.25	1.08	0	0
265	CO466	Main member	12.35	7.82	-0.15	-12.3	-18.18
	CO466	Connected member	-4.31	-3.88	0.16	0.15	-2
	CO466	Continuous member	-8.52	-12.18	9.92	-12.23	-18.33
	CO466	Connected member	-26.2	-6.26	1.09	0	0
265	CO467	Main member	11.62	7.78	-0.14	-12.31	-18.01
	CO467	Connected member	-3.39	-3.88	0.16	0.15	-1.99
	CO467	Continuous member	-8.62	-10.87	9.92	-12.25	-18.16
	CO467	Connected member	-25.44	-6.25	1.08	0	0
265	CO468	Main member	12.71	7.83	-0.17	-12.31	-18.17
	CO468	Connected member	-4.61	-3.88	0.17	0.15	-2
	CO468	Continuous member	-8.49	-12.71	9.91	-12.24	-18.32
	CO468	Connected member	-26.62	-6.26	1.09	0	0
265	CO469	Main member	4.77	1.32	-0.15	-18.74	-6.54
	CO469	Connected member	0.31	-5.97	0.12	0.38	-3.42
	CO469	Continuous member	-5.53	-6.78	15.27	-18.68	-6.92
	CO469	Connected member	-13.32	-9.5	1.06	0	0
265	CO470	Main member	-26.05	-7.73	-0.23	7.21	12.09
	CO470	Connected member	7.74	2.3	0.22	0.2	1.29
	CO470	Continuous member	-16.55	5.09	-6.27	7.2	11.89
	CO470	Connected member	10.53	3.73	1.06	0	0
265	CO471	Main member	-30.21	-7.77	-0.26	7.1	12.2
	CO471	Connected member	8.49	2.3	0.22	0.2	1.31
	CO471	Continuous member	-20.5	5.93	-6.31	7.09	12
	CO471	Connected member	10.78	3.73	1.06	0	0
265	CO472	Main member	-27.56	-7.78	-0.25	7.09	12.23
	CO472	Connected member	8.3	2.3	0.22	0.2	1.3
	CO472	Continuous member	-17.51	5.96	-6.3	7.08	12.04
	CO472	Connected member	11.19	3.73	1.06	0	0
265	CO473	Main member	-31.2	-7.7	-0.24	7.23	11.97
	CO473	Connected member	7.96	2.31	0.22	0.2	1.32
	CO473	Continuous member	-22.57	4.73	-6.3	7.22	11.77
	CO473	Connected member	9.47	3.73	1.06	0	0
265	CO474	Main member	11.48	7.84	-0.16	-12.5	-18.17
	CO474	Connected member	-3.56	-3.88	0.16	0.16	-2
	CO474	Continuous member	-8.76	-10.98	9.9	-12.43	-18.33
	CO474	Connected member	-25.43	-6.25	1.08	0	0
265	CO475	Main member	11	7.82	-0.15	-12.3	-18.19
	CO475	Connected member	-4.21	-3.88	0.16	0.15	-2
	CO475	Continuous member	-10.01	-12.18	9.92	-12.23	-18.34
	CO475	Connected member	-26.38	-6.26	1.09	0	0
265	CO476	Main member	10.27	7.78	-0.14	-12.31	-18.01
	CO476	Connected member	-3.29	-3.87	0.16	0.15	-1.99
	CO476	Continuous member	-10.11	-10.88	9.92	-12.25	-18.16
	CO476	Connected member	-25.62	-6.25	1.08	0	0
265	CO477	Main member	11.37	7.82	-0.17	-12.31	-18.18
	CO477	Connected member	-4.51	-3.88	0.17	0.15	-2
	CO477	Continuous member	-9.98	-12.71	9.9	-12.24	-18.33
	CO477	Connected member	-26.79	-6.26	1.09	0	0
265	CO478	Main member	3.43	1.33	-0.15	-18.74	-6.55
	CO478	Connected member	0.41	-5.97	0.12	0.38	-3.41
	CO478	Continuous member	-7.02	-6.79	15.26	-18.68	-6.92
	CO478	Connected member	-13.5	-9.5	1.06	0	0
265	CO479	Main member	-27.4	-7.72	-0.23	7.21	12.07
	CO479	Connected member	7.84	2.3	0.22	0.2	1.3
	CO479	Continuous member	-18.06	5.08	-6.28	7.2	11.87
	CO479	Connected member	10.33	3.73	1.06	0	0
265	CO480	Main member	-31.55	-7.77	-0.27	7.1	12.18
	CO480	Connected member	8.58	2.3	0.22	0.2	1.32
	CO480	Continuous member	-22.01	5.92	-6.32	7.09	11.98
	CO480	Connected member	10.58	3.73	1.06	0	0
265	CO481	Main member	-26.02	-7.76	-0.24	7.17	12.21
	CO481	Connected member	8.17	2.3	0.22	0.2	1.3
	CO481	Continuous member	-15.84	5.94	-6.28	7.16	12.01
	CO481	Connected member	11.35	3.73	1.06	0	0
265	CO482	Main member	-29.66	-7.68	-0.23	7.3	11.95
	CO482	Connected member	7.83	2.31	0.22	0.2	1.32
	CO482	Continuous member	-20.9	4.71	-6.29	7.3	11.75
	CO482	Connected member	9.63	3.73	1.06	0	0
265	CO483	Main member	12.95	7.83	-0.16	-12.42	-18.12
	CO483	Connected member	-3.67	-3.88	0.16	0.15	-2
	CO483	Continuous member	-7.08	-10.96	9.91	-12.35	-18.27
	CO483	Connected member	-25.18	-6.25	1.08	0	0
265	CO484	Main member	12.47	7.82	-0.15	-12.22	-18.14
	CO484	Connected member	-4.32	-3.88	0.17	0.15	-2



::LAV/team::

Page: 210/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO484	Continuous member	-8.33	-12.16	9.92	-12.16	-18.29
	CO484	Connected member	-26.13	-6.26	1.09	0	0
	CO485	Main member	11.75	7.78	-0.14	-12.24	-17.96
265	CO485	Connected member	-3.41	-3.87	0.16	0.15	-1.99
	CO485	Continuous member	-8.43	-10.86	9.93	-12.17	-18.11
	CO485	Connected member	-25.37	-6.25	1.08	0	0
265	CO486	Main member	12.84	7.82	-0.16	-12.23	-18.13
	CO486	Connected member	-4.62	-3.88	0.17	0.14	-2
	CO486	Continuous member	-8.3	-12.69	9.91	-12.16	-18.27
265	CO486	Connected member	-26.55	-6.26	1.09	0	0
	CO487	Main member	4.92	1.33	-0.14	-18.67	-6.52
	CO487	Connected member	0.29	-5.97	0.12	0.37	-3.41
265	CO487	Continuous member	-5.35	-6.77	15.27	-18.61	-6.9
	CO487	Connected member	-13.28	-9.49	1.06	0	0
265	CO488	Main member	-25.85	-7.7	-0.22	7.28	12.04
	CO488	Connected member	7.71	2.3	0.22	0.2	1.3
	CO488	Continuous member	-16.38	5.06	-6.27	7.27	11.85
265	CO488	Connected member	10.49	3.73	1.06	0	0
	CO489	Main member	-30.01	-7.75	-0.25	7.17	12.16
	CO489	Connected member	8.45	2.3	0.22	0.2	1.32
265	CO489	Continuous member	-20.33	5.9	-6.31	7.17	11.96
	CO489	Connected member	10.74	3.73	1.06	0	0
265	CO490	Main member	-27.36	-7.76	-0.24	7.17	12.19
	CO490	Connected member	8.27	2.3	0.22	0.2	1.31
	CO490	Continuous member	-17.35	5.93	-6.29	7.16	12
265	CO490	Connected member	11.15	3.73	1.06	0	0
	CO491	Main member	-31	-7.68	-0.24	7.31	11.93
	CO491	Connected member	7.93	2.31	0.22	0.2	1.32
265	CO491	Continuous member	-22.4	4.7	-6.3	7.3	11.73
	CO491	Connected member	9.43	3.73	1.06	0	0
265	CO492	Main member	11.6	7.83	-0.16	-12.42	-18.12
	CO492	Connected member	-3.57	-3.87	0.16	0.15	-1.99
	CO492	Continuous member	-8.57	-10.96	9.91	-12.36	-18.28
265	CO492	Connected member	-25.36	-6.25	1.08	0	0
	CO493	Main member	11.12	7.81	-0.15	-12.23	-18.14
	CO493	Connected member	-4.22	-3.88	0.17	0.15	-1.99
265	CO493	Continuous member	-9.83	-12.16	9.92	-12.16	-18.29
	CO493	Connected member	-26.31	-6.26	1.09	0	0
	CO494	Main member	10.4	7.77	-0.14	-12.24	-17.97
265	CO494	Connected member	-3.31	-3.87	0.16	0.15	-1.98
	CO494	Continuous member	-9.93	-10.86	9.92	-12.17	-18.12
	CO494	Connected member	-25.55	-6.25	1.08	0	0
265	CO495	Main member	11.49	7.82	-0.16	-12.23	-18.14
	CO495	Connected member	-4.52	-3.88	0.17	0.14	-2
	CO495	Continuous member	-9.8	-12.69	9.91	-12.17	-18.28
265	CO495	Connected member	-26.72	-6.26	1.09	0	0
	CO496	Main member	3.57	1.33	-0.15	-18.67	-6.53
	CO496	Connected member	0.39	-5.97	0.12	0.37	-3.41
265	CO496	Continuous member	-6.85	-6.78	15.26	-18.61	-6.9
	CO496	Connected member	-13.46	-9.5	1.06	0	0
265	CO497	Main member	-27.2	-7.7	-0.22	7.28	12.03
	CO497	Connected member	7.81	2.3	0.22	0.2	1.3
	CO497	Continuous member	-17.89	5.05	-6.27	7.28	11.83
265	CO497	Connected member	10.3	3.73	1.06	0	0
	CO498	Main member	-31.35	-7.74	-0.26	7.18	12.14
	CO498	Connected member	8.55	2.31	0.22	0.2	1.32
265	CO498	Continuous member	-21.84	5.89	-6.31	7.17	11.94
	CO498	Connected member	10.54	3.73	1.06	0	0
265	CO499	Main member	-26	-7.75	-0.24	7.19	12.2
	CO499	Connected member	8.16	2.3	0.22	0.2	1.3
	CO499	Continuous member	-15.84	5.94	-6.28	7.18	12
265	CO499	Connected member	11.33	3.73	1.06	0	0
	CO500	Main member	-29.64	-7.67	-0.23	7.33	11.94
	CO500	Connected member	7.82	2.31	0.22	0.2	1.32
265	CO500	Continuous member	-20.9	4.71	-6.29	7.32	11.74
	CO500	Connected member	9.61	3.73	1.06	0	0
265	CO501	Main member	12.94	7.83	-0.15	-12.4	-18.11
	CO501	Connected member	-3.67	-3.88	0.16	0.15	-2
	CO501	Continuous member	-7.07	-10.96	9.91	-12.33	-18.26
265	CO501	Connected member	-25.17	-6.25	1.08	0	0
	CO502	Main member	12.47	7.81	-0.14	-12.2	-18.13
	CO502	Connected member	-4.32	-3.88	0.17	0.15	-2
265	CO502	Continuous member	-8.33	-12.15	9.93	-12.14	-18.27
	CO502	Connected member	-26.12	-6.26	1.09	0	0
	CO503	Main member	11.74	7.77	-0.14	-12.22	-17.95
265	CO503	Connected member	-3.41	-3.87	0.16	0.15	-1.99
	CO503	Continuous member	-8.43	-10.85	9.93	-12.15	-18.1
	CO503	Connected member	-25.36	-6.25	1.08	0	0
265	CO504	Main member	12.83	7.82	-0.16	-12.21	-18.12
	CO504	Connected member	-4.62	-3.88	0.17	0.14	-2
	CO504	Continuous member	-8.3	-12.68	9.91	-12.14	-18.26
265	CO504	Connected member	-26.53	-6.26	1.09	0	0
	CO505	Main member	4.92	1.33	-0.14	-18.65	-6.52
	CO505	Connected member	0.29	-5.97	0.12	0.37	-3.41
265	CO505	Continuous member	-5.35	-6.77	15.27	-18.58	-6.89
	CO505	Connected member	-13.27	-9.49	1.06	0	0
265	CO506	Main member	-25.84	-7.7	-0.22	7.3	12.03
	CO506	Connected member	7.71	2.3	0.22	0.2	1.3
	CO506	Continuous member	-16.38	5.06	-6.26	7.29	11.83
265	CO506	Connected member	10.48	3.73	1.06	0	0
	CO507	Main member	-29.99	-7.74	-0.25	7.19	12.14
	CO507	Connected member	8.45	2.3	0.22	0.2	1.32
265	CO507	Continuous member	-20.33	5.89	-6.31	7.19	11.95
	CO507	Connected member	10.73	3.73	1.06	0	0



::LAVteam::

Page: 211/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO508	Main member	-27.34	-7.75	-0.24	7.19	12.18
	CO508	Connected member	8.26	2.3	0.22	0.2	1.31
	CO508	Continuous member	-17.34	5.93	-6.29	7.18	11.98
265	CO508	Connected member	11.13	3.73	1.06	0	0
	CO509	Main member	-30.98	-7.67	-0.23	7.33	11.92
	CO509	Connected member	7.92	2.31	0.22	0.2	1.32
265	CO509	Continuous member	-22.4	4.7	-6.29	7.32	11.72
	CO509	Connected member	9.42	3.73	1.06	0	0
	CO510	Main member	11.59	7.83	-0.16	-12.4	-18.11
265	CO510	Connected member	-3.57	-3.87	0.16	0.15	-1.99
	CO510	Continuous member	-8.57	-10.96	9.91	-12.33	-18.26
	CO510	Connected member	-25.35	-6.25	1.08	0	0
265	CO511	Main member	11.12	7.81	-0.15	-12.21	-18.13
	CO511	Connected member	-4.22	-3.88	0.17	0.15	-1.99
	CO511	Continuous member	-9.82	-12.15	9.92	-12.14	-18.28
265	CO511	Connected member	-26.3	-6.26	1.09	0	0
	CO512	Main member	10.39	7.77	-0.14	-12.22	-17.96
	CO512	Connected member	-3.31	-3.87	0.16	0.15	-1.98
265	CO512	Continuous member	-9.92	-10.85	9.92	-12.15	-18.1
	CO512	Connected member	-25.54	-6.25	1.08	0	0
265	CO513	Main member	11.49	7.82	-0.16	-12.21	-18.13
	CO513	Connected member	-4.52	-3.88	0.17	0.14	-1.99
	CO513	Continuous member	-9.79	-12.69	9.91	-12.15	-18.27
265	CO513	Connected member	-26.71	-6.26	1.09	0	0
	CO514	Main member	3.57	1.33	-0.14	-18.65	-6.53
	CO514	Connected member	0.39	-5.97	0.12	0.37	-3.41
265	CO514	Continuous member	-6.84	-6.78	15.26	-18.59	-6.9
	CO514	Connected member	-13.45	-9.5	1.06	0	0
265	CO515	Main member	-27.18	-7.69	-0.22	7.3	12.01
	CO515	Connected member	7.81	2.3	0.22	0.2	1.31
	CO515	Continuous member	-17.88	5.05	-6.27	7.3	11.82
265	CO515	Connected member	10.28	3.73	1.06	0	0
	CO516	Main member	-31.33	-7.74	-0.26	7.2	12.13
	CO516	Connected member	8.55	2.31	0.22	0.2	1.32
265	CO516	Continuous member	-21.83	5.88	-6.31	7.19	11.93
	CO516	Connected member	10.53	3.73	1.06	0	0
265	CO517	Main member	-40.03	-12.85	-0.33	12.13	20.3
	CO517	Connected member	12.97	3.82	0.12	0.52	2.17
	CO517	Continuous member	-24.15	9.66	-10.38	12.12	19.77
265	CO517	Connected member	18.41	6.18	1.04	0	0
	CO518	Main member	-46.08	-12.7	-0.32	12.37	19.83
	CO518	Connected member	12.4	3.84	0.12	0.53	2.2
265	CO518	Continuous member	-32.57	7.61	-10.39	12.36	19.31
	CO518	Connected member	15.53	6.19	1.05	0	0
265	CO519	Main member	24.72	13.04	-0.23	-20.59	-29.98
	CO519	Connected member	-6.66	-6.47	0.03	0.44	-3.34
	CO519	Continuous member	-9.48	-18.35	16.65	-20.49	-30.42
265	CO519	Connected member	-42.17	-10.59	1.08	0	0
	CO520	Main member	23.82	12.97	-0.22	-20.27	-29.88
	CO520	Connected member	-7.71	-6.48	0.04	0.43	-3.35
265	CO520	Continuous member	-11.53	-20.26	16.68	-20.16	-30.32
	CO520	Connected member	-43.58	-10.6	1.08	0	0
265	CO521	Main member	22.61	12.92	-0.2	-20.29	-29.62
	CO521	Connected member	-6.21	-6.47	0.04	0.42	-3.33
	CO521	Continuous member	-11.71	-18.1	16.68	-20.18	-30.04
265	CO521	Connected member	-42.32	-10.59	1.08	0	0
	CO522	Main member	24.33	12.94	-0.25	-20.28	-29.76
	CO522	Connected member	-8.19	-6.49	0.05	0.41	-3.36
265	CO522	Continuous member	-11.44	-21.07	16.66	-20.17	-30.18
	CO522	Connected member	-44.1	-10.61	1.08	0	0
265	CO523	Main member	11.24	2.2	-0.2	-30.97	-10.55
	CO523	Connected member	-0.05	-9.95	-0.03	0.79	-5.7
	CO523	Continuous member	-6.53	-11.26	25.56	-30.87	-11.35
265	CO523	Connected member	-22.11	-15.95	1.03	0	0
	CO524	Main member	-39.75	-12.74	-0.3	12.33	20
	CO524	Connected member	12.21	3.83	0.12	0.52	2.17
265	CO524	Continuous member	-25.05	8.19	-10.35	12.31	19.47
	CO524	Connected member	16.97	6.18	1.05	0	0
265	CO525	Main member	-46.68	-12.82	-0.36	12.15	20.2
	CO525	Connected member	13.44	3.83	0.12	0.52	2.2
	CO525	Continuous member	-31.63	9.59	-10.42	12.14	19.68
265	CO525	Connected member	17.39	6.18	1.04	0	0
	CO526	Main member	-40.24	-12.88	-0.34	12.06	20.35
	CO526	Connected member	13.01	3.82	0.12	0.52	2.16
265	CO526	Continuous member	-24.32	9.7	-10.39	12.04	19.83
	CO526	Connected member	18.46	6.18	1.04	0	0
265	CO527	Main member	-46.29	-12.73	-0.33	12.29	19.89
	CO527	Connected member	12.43	3.84	0.12	0.53	2.19
	CO527	Continuous member	-32.74	7.64	-10.4	12.28	19.36
265	CO527	Connected member	15.57	6.19	1.05	0	0
	CO528	Main member	24.64	13.06	-0.24	-20.67	-30.07
	CO528	Connected member	-6.66	-6.48	0.03	0.45	-3.34
265	CO528	Continuous member	-9.68	-18.39	16.65	-20.56	-30.52
	CO528	Connected member	-42.3	-10.59	1.08	0	0
265	CO529	Main member	23.73	12.99	-0.22	-20.35	-29.97
	CO529	Connected member	-7.71	-6.48	0.04	0.44	-3.35
	CO529	Continuous member	-11.73	-20.3	16.68	-20.24	-30.41
265	CO529	Connected member	-43.7	-10.6	1.08	0	0
	CO530	Main member	22.53	12.94	-0.2	-20.37	-29.7
	CO530	Connected member	-6.21	-6.47	0.04	0.43	-3.33
265	CO530	Continuous member	-11.9	-18.15	16.68	-20.26	-30.13
	CO530	Connected member	-42.45	-10.59	1.08	0	0
	CO531	Main member	24.24	12.96	-0.25	-20.36	-29.84
	CO531	Connected member	-8.19	-6.49	0.05	0.42	-3.36



::LAV/team::

Page: 212/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO531	Continuous member	-11.64	-21.11	16.65	-20.25	-30.26
	CO531	Connected member	-44.23	-10.61	1.08	0	0
	CO532	Main member	11.12	2.2	-0.2	-31.04	-10.59
265	CO532	Connected member	-0.03	-9.95	-0.03	0.8	-5.7
	CO532	Continuous member	-6.72	-11.29	25.56	-30.95	-11.39
	CO532	Connected member	-22.19	-15.95	1.03	0	0
265	CO533	Main member	-39.96	-12.77	-0.3	12.25	20.05
	CO533	Connected member	12.24	3.82	0.12	0.53	2.16
	CO533	Continuous member	-25.22	8.22	-10.36	12.24	19.53
265	CO533	Connected member	17.02	6.18	1.05	0	0
	CO534	Main member	-46.89	-12.85	-0.37	12.07	20.26
	CO534	Connected member	13.48	3.83	0.12	0.52	2.19
265	CO534	Continuous member	-31.8	9.62	-10.43	12.06	19.73
	CO534	Connected member	17.44	6.18	1.04	0	0
265	CO535	Main member	-40.26	-12.89	-0.34	12.04	20.37
	CO535	Connected member	13.02	3.82	0.12	0.52	2.16
	CO535	Continuous member	-24.32	9.71	-10.39	12.02	19.84
265	CO535	Connected member	18.48	6.18	1.04	0	0
	CO536	Main member	-46.31	-12.74	-0.33	12.27	19.9
	CO536	Connected member	12.44	3.84	0.12	0.53	2.19
265	CO536	Continuous member	-32.75	7.65	-10.4	12.26	19.38
	CO536	Connected member	15.59	6.19	1.05	0	0
265	CO537	Main member	24.66	13.07	-0.24	-20.69	-30.09
	CO537	Connected member	-6.66	-6.48	0.03	0.45	-3.34
	CO537	Continuous member	-9.68	-18.41	16.65	-20.58	-30.55
265	CO537	Connected member	-42.33	-10.59	1.08	0	0
	CO538	Main member	23.75	13	-0.22	-20.37	-29.99
	CO538	Connected member	-7.71	-6.49	0.04	0.44	-3.35
265	CO538	Continuous member	-11.73	-20.32	16.68	-20.26	-30.43
	CO538	Connected member	-43.73	-10.6	1.08	0	0
265	CO539	Main member	22.54	12.94	-0.2	-20.39	-29.72
	CO539	Connected member	-6.21	-6.47	0.03	0.43	-3.33
	CO539	Continuous member	-11.91	-18.16	16.68	-20.28	-30.16
265	CO539	Connected member	-42.48	-10.59	1.08	0	0
	CO540	Main member	24.26	12.97	-0.25	-20.38	-29.86
	CO540	Connected member	-8.19	-6.49	0.05	0.42	-3.36
265	CO540	Continuous member	-11.65	-21.12	16.65	-20.27	-30.29
	CO540	Connected member	-44.26	-10.61	1.08	0	0
265	CO541	Main member	11.13	2.2	-0.2	-31.06	-10.6
	CO541	Connected member	-0.03	-9.95	-0.03	0.8	-5.7
	CO541	Continuous member	-6.72	-11.29	25.56	-30.97	-11.4
265	CO541	Connected member	-22.2	-15.96	1.03	0	0
	CO542	Main member	-39.97	-12.78	-0.31	12.23	20.07
	CO542	Connected member	12.25	3.82	0.12	0.53	2.16
265	CO542	Continuous member	-25.22	8.23	-10.36	12.22	19.54
	CO542	Connected member	17.04	6.18	1.05	0	0
265	CO543	Main member	-46.9	-12.86	-0.37	12.05	20.27
	CO543	Connected member	13.49	3.83	0.12	0.52	2.19
	CO543	Continuous member	-31.81	9.63	-10.43	12.04	19.75
265	CO543	Connected member	17.46	6.18	1.04	0	0
	CO544	Main member	-40.05	-12.86	-0.33	12.11	20.31
	CO544	Connected member	12.98	3.82	0.12	0.52	2.17
265	CO544	Continuous member	-24.15	9.67	-10.38	12.1	19.79
	CO544	Connected member	18.43	6.18	1.04	0	0
265	CO545	Main member	-46.1	-12.71	-0.32	12.35	19.85
	CO545	Connected member	12.4	3.84	0.12	0.53	2.2
	CO545	Continuous member	-32.57	7.62	-10.39	12.34	19.32
265	CO545	Connected member	15.54	6.19	1.05	0	0
	CO546	Main member	24.74	13.05	-0.23	-20.61	-30.01
	CO546	Connected member	-6.67	-6.48	0.03	0.44	-3.34
265	CO546	Continuous member	-9.49	-18.36	16.65	-20.51	-30.45
	CO546	Connected member	-42.2	-10.59	1.08	0	0
265	CO547	Main member	23.83	12.98	-0.22	-20.29	-29.91
	CO547	Connected member	-7.71	-6.48	0.04	0.43	-3.35
	CO547	Continuous member	-11.54	-20.27	16.68	-20.18	-30.34
265	CO547	Connected member	-43.61	-10.6	1.08	0	0
	CO548	Main member	22.63	12.92	-0.2	-20.31	-29.64
	CO548	Connected member	-6.21	-6.47	0.04	0.43	-3.33
265	CO548	Continuous member	-11.71	-18.12	16.68	-20.2	-30.07
	CO548	Connected member	-42.35	-10.59	1.08	0	0
265	CO549	Main member	24.35	12.95	-0.25	-20.3	-29.78
	CO549	Connected member	-8.2	-6.49	0.05	0.41	-3.36
	CO549	Continuous member	-11.45	-21.08	16.65	-20.19	-30.2
265	CO549	Connected member	-44.13	-10.61	1.08	0	0
	CO550	Main member	11.24	2.2	-0.2	-30.99	-10.56
	CO550	Connected member	-0.05	-9.95	-0.03	0.79	-5.7
265	CO550	Continuous member	-6.54	-11.27	25.56	-30.89	-11.36
	CO550	Connected member	-22.13	-15.95	1.03	0	0
265	CO551	Main member	-39.77	-12.75	-0.3	12.31	20.01
	CO551	Connected member	12.21	3.83	0.12	0.52	2.17
	CO551	Continuous member	-25.05	8.2	-10.35	12.29	19.49
265	CO551	Connected member	16.99	6.18	1.05	0	0
	CO552	Main member	-46.69	-12.83	-0.36	12.13	20.22
	CO552	Connected member	13.45	3.83	0.12	0.52	2.19
265	CO552	Continuous member	-31.63	9.6	-10.43	12.12	19.69
	CO552	Connected member	17.41	6.18	1.04	0	0
265	CO553	Main member	-40.27	-12.89	-0.34	12.02	20.38
	CO553	Connected member	13.02	3.82	0.12	0.52	2.16
	CO553	Continuous member	-24.32	9.72	-10.39	12.01	19.86
265	CO553	Connected member	18.49	6.18	1.04	0	0
	CO554	Main member	-46.32	-12.74	-0.33	12.26	19.92
	CO554	Connected member	12.45	3.84	0.12	0.53	2.19
265	CO554	Continuous member	-32.75	7.65	-10.4	12.24	19.39
	CO554	Connected member	15.6	6.19	1.05	0	0



::LAV/team::

Page: 213/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO555	Main member	24.67	13.07	-0.24	-20.71	-30.11
	CO555	Connected member	-6.66	-6.48	0.03	0.45	-3.34
	CO555	Continuous member	-9.69	-18.42	16.65	-20.6	-30.57
	CO555	Connected member	-42.36	-10.59	1.08	0	0
265	CO556	Main member	23.76	13.01	-0.22	-20.38	-30.01
	CO556	Connected member	-7.71	-6.49	0.04	0.44	-3.35
	CO556	Continuous member	-11.74	-20.33	16.68	-20.28	-30.45
	CO556	Connected member	-43.76	-10.6	1.08	0	0
265	CO557	Main member	22.56	12.95	-0.21	-20.41	-29.74
	CO557	Connected member	-6.21	-6.47	0.03	0.44	-3.33
	CO557	Continuous member	-11.92	-18.17	16.68	-20.3	-30.18
	CO557	Connected member	-42.5	-10.59	1.08	0	0
265	CO558	Main member	24.27	12.97	-0.25	-20.4	-29.88
	CO558	Connected member	-8.19	-6.49	0.05	0.42	-3.36
	CO558	Continuous member	-11.66	-21.13	16.65	-20.29	-30.31
	CO558	Connected member	-44.28	-10.61	1.08	0	0
265	CO559	Main member	11.13	2.2	-0.2	-31.08	-10.61
	CO559	Connected member	-0.03	-9.95	-0.03	0.8	-5.7
	CO559	Continuous member	-6.73	-11.3	25.56	-30.98	-11.41
	CO559	Connected member	-22.22	-15.96	1.03	0	0
265	CO560	Main member	-39.99	-12.79	-0.31	12.21	20.08
	CO560	Connected member	12.26	3.82	0.12	0.53	2.16
	CO560	Continuous member	-25.22	8.24	-10.36	12.2	19.55
	CO560	Connected member	17.05	6.18	1.05	0	0
265	CO561	Main member	-46.92	-12.87	-0.37	12.03	20.28
	CO561	Connected member	13.5	3.83	0.12	0.52	2.19
	CO561	Continuous member	-31.81	9.64	-10.43	12.02	19.76
	CO561	Connected member	17.48	6.18	1.04	0	0
265	CO562	Main member	-40.94	-12.89	-0.35	12.02	20.37
	CO562	Connected member	13.07	3.82	0.12	0.52	2.17
	CO562	Continuous member	-25.08	9.71	-10.4	12.01	19.85
	CO562	Connected member	18.39	6.18	1.04	0	0
265	CO563	Main member	-46.99	-12.74	-0.33	12.26	19.91
	CO563	Connected member	12.49	3.84	0.12	0.53	2.19
	CO563	Continuous member	-33.5	7.65	-10.41	12.24	19.38
	CO563	Connected member	15.5	6.19	1.05	0	0
265	CO564	Main member	23.99	13.07	-0.24	-20.71	-30.11
	CO564	Connected member	-6.61	-6.48	0.03	0.45	-3.34
	CO564	Continuous member	-10.44	-18.41	16.65	-20.6	-30.57
	CO564	Connected member	-42.44	-10.59	1.08	0	0
265	CO565	Main member	23.09	13	-0.23	-20.39	-30.01
	CO565	Connected member	-7.66	-6.48	0.04	0.44	-3.35
	CO565	Continuous member	-12.49	-20.32	16.68	-20.28	-30.45
	CO565	Connected member	-43.84	-10.6	1.08	0	0
265	CO566	Main member	21.88	12.95	-0.21	-20.41	-29.74
	CO566	Connected member	-6.16	-6.47	0.03	0.44	-3.33
	CO566	Continuous member	-12.66	-18.17	16.68	-20.3	-30.18
	CO566	Connected member	-42.58	-10.59	1.08	0	0
265	CO567	Main member	23.59	12.97	-0.25	-20.4	-29.88
	CO567	Connected member	-8.14	-6.49	0.05	0.42	-3.36
	CO567	Continuous member	-12.4	-21.13	16.65	-20.29	-30.31
	CO567	Connected member	-44.36	-10.61	1.08	0	0
265	CO568	Main member	10.46	2.2	-0.2	-31.08	-10.61
	CO568	Connected member	0.02	-9.95	-0.03	0.8	-5.7
	CO568	Continuous member	-7.47	-11.3	25.56	-30.99	-11.42
	CO568	Connected member	-22.3	-15.96	1.03	0	0
265	CO569	Main member	-40.66	-12.79	-0.31	12.21	20.07
	CO569	Connected member	12.31	3.82	0.12	0.53	2.16
	CO569	Continuous member	-25.97	8.24	-10.37	12.2	19.55
	CO569	Connected member	16.95	6.18	1.05	0	0
265	CO570	Main member	-47.59	-12.87	-0.38	12.04	20.28
	CO570	Connected member	13.54	3.83	0.12	0.52	2.19
	CO570	Continuous member	-32.56	9.63	-10.44	12.02	19.75
	CO570	Connected member	17.38	6.18	1.04	0	0
265	CO571	Main member	-40.29	-12.9	-0.35	12	20.4
	CO571	Connected member	13.03	3.82	0.12	0.52	2.16
	CO571	Continuous member	-24.32	9.73	-10.39	11.98	19.87
	CO571	Connected member	18.51	6.18	1.04	0	0
265	CO572	Main member	-46.34	-12.75	-0.33	12.23	19.93
	CO572	Connected member	12.45	3.84	0.12	0.53	2.19
	CO572	Continuous member	-32.75	7.66	-10.4	12.22	19.4
	CO572	Connected member	15.62	6.19	1.05	0	0
265	CO573	Main member	24.69	13.08	-0.24	-20.73	-30.14
	CO573	Connected member	-6.66	-6.48	0.03	0.45	-3.34
	CO573	Continuous member	-9.7	-18.43	16.65	-20.62	-30.59
	CO573	Connected member	-42.39	-10.59	1.08	0	0
265	CO574	Main member	23.78	13.01	-0.23	-20.41	-30.03
	CO574	Connected member	-7.71	-6.49	0.04	0.44	-3.35
	CO574	Continuous member	-11.75	-20.34	16.68	-20.3	-30.48
	CO574	Connected member	-43.79	-10.6	1.08	0	0
265	CO575	Main member	22.57	12.95	-0.21	-20.43	-29.76
	CO575	Connected member	-6.21	-6.47	0.03	0.44	-3.33
	CO575	Continuous member	-11.92	-18.18	16.68	-20.32	-30.2
	CO575	Connected member	-42.53	-10.59	1.08	0	0
265	CO576	Main member	24.28	12.98	-0.25	-20.42	-29.91
	CO576	Connected member	-8.19	-6.49	0.05	0.43	-3.36
	CO576	Continuous member	-11.67	-21.15	16.65	-20.31	-30.33
	CO576	Connected member	-44.31	-10.61	1.08	0	0
265	CO577	Main member	11.14	2.2	-0.2	-31.1	-10.62
	CO577	Connected member	-0.03	-9.95	-0.03	0.8	-5.7
	CO577	Continuous member	-6.73	-11.31	25.56	-31	-11.43
	CO577	Connected member	-22.23	-15.96	1.03	0	0
265	CO578	Main member	-40	-12.8	-0.31	12.19	20.1
	CO578	Connected member	12.26	3.82	0.12	0.53	2.16



::LAV/team::

Page: 214/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO578	Continuous member	-25.22	8.25	-10.36	12.18	19.57
	CO578	Connected member	17.07	6.18	1.05	0	0
	CO579	Main member	-46.94	-12.88	-0.37	12.01	20.3
265	CO579	Connected member	13.5	3.83	0.12	0.53	2.19
	CO579	Continuous member	-31.81	9.65	-10.44	12	19.78
	CO579	Connected member	17.49	6.18	1.04	0	0
265	CO580	Main member	-40.96	-12.9	-0.35	12	20.39
	CO580	Connected member	13.08	3.82	0.12	0.52	2.16
	CO580	Continuous member	-25.08	9.72	-10.4	11.99	19.86
265	CO580	Connected member	18.41	6.18	1.04	0	0
	CO581	Main member	-47.01	-12.75	-0.34	12.24	19.92
	CO581	Connected member	12.5	3.84	0.12	0.53	2.19
265	CO581	Continuous member	-33.5	7.66	-10.41	12.22	19.39
	CO581	Connected member	15.52	6.19	1.05	0	0
265	CO582	Main member	24.01	13.08	-0.24	-20.73	-30.14
	CO582	Connected member	-6.61	-6.48	0.03	0.45	-3.34
	CO582	Continuous member	-10.44	-18.43	16.65	-20.62	-30.59
265	CO582	Connected member	-42.47	-10.59	1.08	0	0
	CO583	Main member	23.1	13.01	-0.23	-20.41	-30.03
	CO583	Connected member	-7.66	-6.48	0.04	0.44	-3.35
265	CO583	Continuous member	-12.5	-20.34	16.67	-20.3	-30.48
	CO583	Connected member	-43.87	-10.6	1.08	0	0
265	CO584	Main member	21.9	12.95	-0.21	-20.43	-29.76
	CO584	Connected member	-6.16	-6.47	0.03	0.44	-3.33
	CO584	Continuous member	-12.67	-18.18	16.68	-20.32	-30.2
265	CO584	Connected member	-42.61	-10.59	1.08	0	0
	CO585	Main member	23.61	12.98	-0.26	-20.42	-29.91
	CO585	Connected member	-8.14	-6.49	0.05	0.43	-3.36
265	CO585	Continuous member	-12.41	-21.15	16.65	-20.31	-30.33
	CO585	Connected member	-44.39	-10.61	1.08	0	0
265	CO586	Main member	10.47	2.2	-0.2	-31.1	-10.62
	CO586	Connected member	0.02	-9.95	-0.03	0.8	-5.7
	CO586	Continuous member	-7.48	-11.31	25.56	-31.01	-11.43
265	CO586	Connected member	-22.32	-15.96	1.03	0	0
	CO587	Main member	-40.67	-12.79	-0.31	12.19	20.09
	CO587	Connected member	12.31	3.82	0.12	0.53	2.16
265	CO587	Continuous member	-25.98	8.24	-10.37	12.18	19.56
	CO587	Connected member	16.97	6.18	1.05	0	0
	CO588	Main member	-47.61	-12.88	-0.38	12.01	20.29
265	CO588	Connected member	13.55	3.83	0.12	0.53	2.19
	CO588	Continuous member	-32.56	9.64	-10.44	12	19.77
	CO588	Connected member	17.39	6.18	1.04	0	0
265	CO589	Main member	-40.08	-12.87	-0.34	12.07	20.34
	CO589	Connected member	12.99	3.82	0.12	0.52	2.17
	CO589	Continuous member	-24.16	9.69	-10.39	12.06	19.82
265	CO589	Connected member	18.46	6.18	1.04	0	0
	CO590	Main member	-46.13	-12.72	-0.32	12.31	19.88
	CO590	Connected member	12.42	3.84	0.12	0.53	2.19
265	CO590	Continuous member	-32.58	7.63	-10.4	12.3	19.35
	CO590	Connected member	15.58	6.19	1.05	0	0
265	CO591	Main member	24.77	13.06	-0.24	-20.65	-30.05
	CO591	Connected member	-6.67	-6.48	0.03	0.45	-3.34
	CO591	Continuous member	-9.51	-18.38	16.65	-20.54	-30.5
265	CO591	Connected member	-42.26	-10.59	1.08	0	0
	CO592	Main member	23.86	12.99	-0.22	-20.33	-29.95
	CO592	Connected member	-7.72	-6.48	0.04	0.44	-3.35
265	CO592	Continuous member	-11.56	-20.29	16.68	-20.22	-30.39
	CO592	Connected member	-43.66	-10.6	1.08	0	0
265	CO593	Main member	22.66	12.93	-0.2	-20.35	-29.68
	CO593	Connected member	-6.22	-6.47	0.04	0.43	-3.33
	CO593	Continuous member	-11.73	-18.14	16.68	-20.24	-30.11
265	CO593	Connected member	-42.4	-10.59	1.08	0	0
	CO594	Main member	24.37	12.96	-0.25	-20.34	-29.82
	CO594	Connected member	-8.2	-6.49	0.05	0.42	-3.36
265	CO594	Continuous member	-11.47	-21.1	16.65	-20.23	-30.24
	CO594	Connected member	-44.18	-10.61	1.08	0	0
265	CO595	Main member	11.26	2.2	-0.2	-31.02	-10.58
	CO595	Connected member	-0.04	-9.95	-0.03	0.8	-5.7
	CO595	Continuous member	-6.55	-11.28	25.56	-30.93	-11.38
265	CO595	Connected member	-22.15	-15.95	1.03	0	0
	CO596	Main member	-39.8	-12.77	-0.3	12.27	20.04
	CO596	Connected member	12.23	3.82	0.12	0.53	2.16
265	CO596	Continuous member	-25.05	8.22	-10.36	12.25	19.52
	CO596	Connected member	17.03	6.18	1.05	0	0
265	CO597	Main member	-46.73	-12.85	-0.37	12.09	20.24
	CO597	Connected member	13.47	3.83	0.12	0.52	2.19
	CO597	Continuous member	-31.64	9.61	-10.43	12.08	19.72
265	CO597	Connected member	17.45	6.18	1.04	0	0
	CO598	Main member	-40.75	-12.87	-0.34	12.08	20.33
	CO598	Connected member	13.04	3.82	0.12	0.52	2.17
265	CO598	Continuous member	-24.91	9.69	-10.39	12.06	19.81
	CO598	Connected member	18.36	6.18	1.04	0	0
265	CO599	Main member	-46.8	-12.72	-0.33	12.31	19.87
	CO599	Connected member	12.46	3.84	0.12	0.53	2.2
	CO599	Continuous member	-33.33	7.63	-10.4	12.3	19.34
265	CO599	Connected member	15.48	6.19	1.05	0	0
	CO600	Main member	24.09	13.06	-0.24	-20.65	-30.05
	CO600	Connected member	-6.62	-6.47	0.03	0.45	-3.34
265	CO600	Continuous member	-10.25	-18.38	16.65	-20.55	-30.5
	CO600	Connected member	-42.34	-10.59	1.08	0	0
	CO601	Main member	23.19	12.99	-0.22	-20.33	-29.95
265	CO601	Connected member	-7.67	-6.48	0.04	0.44	-3.35
	CO601	Continuous member	-12.3	-20.29	16.68	-20.22	-30.38
265	CO601	Connected member	-43.74	-10.6	1.08	0	0



::LAV/team::

Page: 215/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO602	Main member	21.98	12.93	-0.2	-20.35	-29.68
	CO602	Connected member	-6.17	-6.47	0.04	0.43	-3.33
	CO602	Continuous member	-12.47	-18.14	16.68	-20.24	-30.11
	CO602	Connected member	-42.49	-10.59	1.08	0	0
265	CO603	Main member	23.7	12.96	-0.25	-20.34	-29.82
	CO603	Connected member	-8.15	-6.49	0.05	0.42	-3.36
	CO603	Continuous member	-12.21	-2.1	16.65	-20.23	-30.24
	CO603	Connected member	-44.27	-10.61	1.08	0	0
265	CO604	Main member	10.58	2.2	-0.2	-31.03	-10.58
	CO604	Connected member	0.01	-9.95	-0.03	0.8	-5.7
	CO604	Continuous member	-7.3	-11.28	25.55	-30.93	-11.38
	CO604	Connected member	-22.24	-15.96	1.03	0	0
265	CO605	Main member	-40.47	-12.76	-0.3	12.27	20.03
	CO605	Connected member	12.28	3.83	0.12	0.53	2.17
	CO605	Continuous member	-25.81	8.21	-10.36	12.26	19.51
	CO605	Connected member	16.93	6.18	1.05	0	0
265	CO606	Main member	-47.4	-12.84	-0.37	12.09	20.24
	CO606	Connected member	13.51	3.83	0.12	0.52	2.2
	CO606	Continuous member	-32.39	9.61	-10.43	12.08	19.71
	CO606	Connected member	17.35	6.18	1.04	0	0
265	CO607	Main member	-40.07	-12.86	-0.34	12.09	20.32
	CO607	Connected member	12.99	3.82	0.12	0.52	2.17
	CO607	Continuous member	-24.15	9.68	-10.39	12.08	19.8
	CO607	Connected member	18.44	6.18	1.04	0	0
265	CO608	Main member	-46.11	-12.71	-0.32	12.33	19.86
	CO608	Connected member	12.41	3.84	0.12	0.53	2.19
	CO608	Continuous member	-32.58	7.62	-10.4	12.32	19.34
	CO608	Connected member	15.56	6.19	1.05	0	0
265	CO609	Main member	24.75	13.05	-0.23	-20.63	-30.03
	CO609	Connected member	-6.67	-6.48	0.03	0.44	-3.34
	CO609	Continuous member	-9.5	-18.37	16.65	-20.52	-30.47
	CO609	Connected member	-42.23	-10.59	1.08	0	0
265	CO610	Main member	23.85	12.98	-0.22	-20.31	-29.93
	CO610	Connected member	-7.72	-6.48	0.04	0.43	-3.35
	CO610	Continuous member	-11.55	-20.28	16.68	-20.2	-30.36
	CO610	Connected member	-43.63	-10.6	1.08	0	0
265	CO611	Main member	22.64	12.93	-0.2	-20.33	-29.66
	CO611	Connected member	-6.22	-6.47	0.04	0.43	-3.33
	CO611	Continuous member	-11.72	-18.13	16.68	-20.22	-30.09
	CO611	Connected member	-42.37	-10.59	1.08	0	0
265	CO612	Main member	24.36	12.95	-0.25	-20.32	-29.8
	CO612	Connected member	-8.2	-6.49	0.05	0.42	-3.36
	CO612	Continuous member	-11.46	-21.09	16.65	-20.21	-30.22
	CO612	Connected member	-44.15	-10.61	1.08	0	0
265	CO613	Main member	11.25	2.2	-0.2	-31	-10.57
	CO613	Connected member	-0.05	-9.95	-0.03	0.8	-5.7
	CO613	Continuous member	-6.54	-11.28	25.56	-30.91	-11.37
	CO613	Connected member	-22.14	-15.95	1.03	0	0
265	CO614	Main member	-39.78	-12.76	-0.3	12.29	20.03
	CO614	Connected member	12.22	3.83	0.12	0.53	2.17
	CO614	Continuous member	-25.05	8.21	-10.36	12.28	19.5
	CO614	Connected member	17.01	6.18	1.05	0	0
265	CO615	Main member	-46.71	-12.84	-0.36	12.11	20.23
	CO615	Connected member	13.46	3.83	0.12	0.52	2.19
	CO615	Continuous member	-31.64	9.6	-10.43	12.1	19.71
	CO615	Connected member	17.43	6.18	1.04	0	0
265	CO616	Main member	-40.74	-12.86	-0.34	12.1	20.32
	CO616	Connected member	13.04	3.82	0.12	0.52	2.17
	CO616	Continuous member	-24.91	9.68	-10.39	12.08	19.79
	CO616	Connected member	18.34	6.18	1.04	0	0
265	CO617	Main member	-46.78	-12.71	-0.33	12.33	19.85
	CO617	Connected member	12.46	3.84	0.12	0.53	2.2
	CO617	Continuous member	-33.33	7.62	-10.4	12.32	19.33
	CO617	Connected member	15.46	6.19	1.05	0	0
265	CO618	Main member	24.07	13.05	-0.23	-20.63	-30.03
	CO618	Connected member	-6.62	-6.47	0.03	0.44	-3.34
	CO618	Continuous member	-10.24	-18.37	16.65	-20.53	-30.47
	CO618	Connected member	-42.31	-10.59	1.08	0	0
265	CO619	Main member	23.17	12.98	-0.22	-20.31	-29.93
	CO619	Connected member	-7.67	-6.48	0.04	0.43	-3.35
	CO619	Continuous member	-12.29	-20.28	16.68	-20.2	-30.36
	CO619	Connected member	-43.71	-10.6	1.08	0	0
265	CO620	Main member	21.97	12.92	-0.2	-20.33	-29.66
	CO620	Connected member	-6.16	-6.47	0.04	0.43	-3.33
	CO620	Continuous member	-12.47	-18.12	16.68	-20.22	-30.09
	CO620	Connected member	-42.46	-10.59	1.08	0	0
265	CO621	Main member	23.69	12.95	-0.25	-20.32	-29.8
	CO621	Connected member	-8.15	-6.49	0.05	0.42	-3.36
	CO621	Continuous member	-12.2	-21.09	16.65	-20.21	-30.22
	CO621	Connected member	-44.24	-10.61	1.08	0	0
265	CO622	Main member	10.58	2.2	-0.2	-31.01	-10.57
	CO622	Connected member	0	-9.95	-0.03	0.8	-5.7
	CO622	Continuous member	-7.29	-11.28	25.55	-30.91	-11.37
	CO622	Connected member	-22.23	-15.96	1.03	0	0
265	CO623	Main member	-40.45	-12.76	-0.3	12.29	20.02
	CO623	Connected member	12.27	3.83	0.12	0.53	2.17
	CO623	Continuous member	-25.8	8.2	-10.36	12.28	19.49
	CO623	Connected member	16.91	6.19	1.05	0	0
265	CO624	Main member	-47.38	-12.84	-0.37	12.11	20.22
	CO624	Connected member	13.51	3.83	0.12	0.52	2.2
	CO624	Continuous member	-32.39	9.6	-10.43	12.1	19.7
	CO624	Connected member	17.33	6.18	1.04	0	0
265	CO625	Main member	-4.76	-0.01	-0.12	-0.05	-0.11
	CO625	Connected member	0.86	0	0.37	-0.3	0



::LAV/team::

Page: 216/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO625	Continuous member	-3.37	0.25	-0.12	-0.05	0.19
	CO625	Connected member	0.51	0	1.07	0	0
	CO626	Main member	-4.9	-0.02	-0.13	-0.11	-0.09
265	CO626	Connected member	0.87	0	0.37	-0.3	-0.01
	CO626	Continuous member	-3.49	0.27	-0.12	-0.11	0.21
	CO626	Connected member	0.52	0	1.07	0	0
265	CO627	Main member	-4.91	-0.02	-0.13	-0.12	-0.08
	CO627	Connected member	0.88	0	0.37	-0.3	-0.01
	CO627	Continuous member	-3.49	0.27	-0.12	-0.12	0.21
265	CO627	Connected member	0.53	0	1.07	0	0
	CO628	Main member	-4.77	-0.01	-0.12	-0.07	-0.1
	CO628	Connected member	0.86	0	0.37	-0.3	0
265	CO628	Continuous member	-3.37	0.25	-0.12	-0.06	0.2
	CO628	Connected member	0.52	0	1.07	0	0
265	CO629	Main member	-4.81	-0.03	-0.13	-0.15	-0.07
	CO629	Connected member	0.87	0	0.37	-0.3	-0.01
	CO629	Continuous member	-3.37	0.28	-0.13	-0.15	0.23
265	CO629	Connected member	0.57	0	1.07	0	0
	CO630	Main member	-4.95	-0.04	-0.13	-0.21	-0.05
	CO630	Connected member	0.89	-0.01	0.37	-0.3	-0.01
265	CO630	Continuous member	-3.5	0.3	-0.13	-0.21	0.24
	CO630	Connected member	0.58	0	1.07	0	0
265	CO631	Main member	-4.96	-0.04	-0.14	-0.23	-0.05
	CO631	Connected member	0.89	-0.01	0.37	-0.3	-0.01
	CO631	Continuous member	-3.5	0.3	-0.13	-0.22	0.25
265	CO631	Connected member	0.59	0	1.07	0	0
	CO632	Main member	-4.82	-0.03	-0.13	-0.17	-0.07
	CO632	Connected member	0.87	0	0.37	-0.3	-0.01
265	CO632	Continuous member	-3.37	0.28	-0.13	-0.17	0.23
	CO632	Connected member	0.58	0	1.07	0	0
265	CO633	Main member	-4.96	-0.04	-0.14	-0.24	-0.05
	CO633	Connected member	0.89	-0.01	0.37	-0.3	-0.01
	CO633	Continuous member	-3.5	0.3	-0.13	-0.23	0.25
265	CO633	Connected member	0.6	0	1.07	0	0
	CO634	Main member	-5.41	-0.04	-0.14	-0.24	-0.05
	CO634	Connected member	0.93	-0.01	0.37	-0.3	-0.01
265	CO634	Continuous member	-4	0.3	-0.13	-0.23	0.25
	CO634	Connected member	0.53	0	1.07	0	0
265	CO635	Main member	-4.97	-0.04	-0.14	-0.25	-0.04
	CO635	Connected member	0.9	-0.01	0.37	-0.3	-0.01
	CO635	Continuous member	-3.5	0.31	-0.13	-0.25	0.26
265	CO635	Connected member	0.61	0	1.07	0	0
	CO636	Main member	-5.42	-0.04	-0.14	-0.25	-0.05
	CO636	Connected member	0.93	-0.01	0.37	-0.3	-0.01
265	CO636	Continuous member	-4	0.31	-0.13	-0.25	0.25
	CO636	Connected member	0.54	0	1.07	0	0
265	CO637	Main member	-4.84	-0.04	-0.13	-0.19	-0.06
	CO637	Connected member	0.88	-0.01	0.37	-0.3	-0.01
	CO637	Continuous member	-3.37	0.29	-0.13	-0.19	0.24
265	CO637	Connected member	0.59	0	1.07	0	0
	CO638	Main member	-5.28	-0.03	-0.13	-0.19	-0.06
	CO638	Connected member	0.91	0	0.37	-0.3	-0.01
265	CO638	Continuous member	-3.87	0.29	-0.13	-0.19	0.23
	CO638	Connected member	0.52	0	1.07	0	0
265	CO639	Main member	-19.12	-5.21	-0.21	4.64	8.16
	CO639	Connected member	5.77	1.53	0.27	0.03	0.86
	CO639	Continuous member	-11.81	4.09	-4.24	4.64	8.13
265	CO639	Connected member	7.81	2.49	1.06	0	0
	CO640	Main member	-21.55	-5.16	-0.2	4.73	7.99
	CO640	Connected member	5.54	1.54	0.27	0.03	0.87
265	CO640	Continuous member	-15.18	3.27	-4.24	4.73	7.96
	CO640	Connected member	6.66	2.5	1.06	0	0
265	CO641	Main member	6.92	5.21	-0.14	-8.4	-12.14
	CO641	Connected member	-2.15	-2.58	0.23	0.01	-1.33
	CO641	Continuous member	-5.98	-7.23	6.55	-8.35	-12.15
265	CO641	Connected member	-16.65	-4.13	1.08	0	0
	CO642	Main member	6.62	5.21	-0.13	-8.27	-12.18
	CO642	Connected member	-2.59	-2.58	0.23	0.01	-1.33
265	CO642	Continuous member	-6.83	-8.05	6.56	-8.22	-12.18
	CO642	Connected member	-17.32	-4.14	1.08	0	0
265	CO643	Main member	6.14	5.18	-0.13	-8.27	-12.06
	CO643	Connected member	-1.98	-2.58	0.23	0	-1.33
	CO643	Continuous member	-6.9	-7.17	6.56	-8.23	-12.06
265	CO643	Connected member	-16.8	-4.13	1.08	0	0
	CO644	Main member	6.89	5.22	-0.14	-8.27	-12.2
	CO644	Connected member	-2.79	-2.58	0.23	0	-1.33
265	CO644	Continuous member	-6.82	-8.42	6.55	-8.22	-12.2
	CO644	Connected member	-17.62	-4.14	1.08	0	0
265	CO645	Main member	1.58	0.88	-0.13	-12.57	-4.42
	CO645	Connected member	0.49	-3.98	0.2	0.16	-2.28
	CO645	Continuous member	-4.84	-4.46	10.13	-12.53	-4.58
265	CO645	Connected member	-8.74	-6.3	1.07	0	0
	CO646	Main member	-19.01	-5.18	-0.19	4.72	8.06
	CO646	Connected member	5.47	1.53	0.27	0.03	0.86
265	CO646	Continuous member	-12.17	3.5	-4.23	4.71	8.02
	CO646	Connected member	7.24	2.49	1.06	0	0
265	CO647	Main member	-21.78	-5.2	-0.21	4.65	8.13
	CO647	Connected member	5.96	1.53	0.27	0.03	0.87
	CO647	Continuous member	-14.8	4.06	-4.25	4.64	8.1
265	CO647	Connected member	7.4	2.49	1.06	0	0
	CO648	Main member	-19.57	-5.21	-0.21	4.64	8.16
	CO648	Connected member	5.8	1.53	0.27	0.03	0.86
265	CO648	Continuous member	-12.31	4.09	-4.24	4.64	8.13
	CO648	Connected member	7.74	2.49	1.06	0	0



::LAV/team::

Page: 217/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO649	Main member	-22	-5.16	-0.2	4.73	7.99
	CO649	Connected member	5.58	1.54	0.27	0.03	0.87
	CO649	Continuous member	-15.68	3.27	-4.24	4.73	7.95
	CO649	Connected member	6.6	2.5	1.06	0	0
265	CO650	Main member	6.47	5.21	-0.14	-8.4	-12.14
	CO650	Connected member	-2.12	-2.58	0.23	0.01	-1.33
	CO650	Continuous member	-6.48	-7.23	6.55	-8.35	-12.15
	CO650	Connected member	-16.71	-4.13	1.08	0	0
265	CO651	Main member	6.18	5.21	-0.13	-8.27	-12.18
	CO651	Connected member	-2.55	-2.58	0.23	0.01	-1.33
	CO651	Continuous member	-7.33	-8.05	6.56	-8.22	-12.19
	CO651	Connected member	-17.38	-4.14	1.08	0	0
265	CO652	Main member	5.69	5.18	-0.13	-8.28	-12.06
	CO652	Connected member	-1.94	-2.58	0.23	0	-1.32
	CO652	Continuous member	-7.4	-7.18	6.56	-8.23	-12.07
	CO652	Connected member	-16.87	-4.13	1.08	0	0
265	CO653	Main member	6.44	5.22	-0.14	-8.27	-12.2
	CO653	Connected member	-2.76	-2.58	0.23	0	-1.33
	CO653	Continuous member	-7.32	-8.42	6.55	-8.23	-12.2
	CO653	Connected member	-17.69	-4.14	1.08	0	0
265	CO654	Main member	1.13	0.88	-0.13	-12.57	-4.43
	CO654	Connected member	0.53	-3.98	0.2	0.16	-2.28
	CO654	Continuous member	-5.35	-4.46	10.13	-12.53	-4.58
	CO654	Connected member	-8.8	-6.3	1.07	0	0
265	CO655	Main member	-19.46	-5.17	-0.19	4.72	8.05
	CO655	Connected member	5.5	1.53	0.27	0.03	0.86
	CO655	Continuous member	-12.67	3.5	-4.23	4.71	8.02
	CO655	Connected member	7.17	2.49	1.06	0	0
265	CO656	Main member	-22.23	-5.2	-0.22	4.65	8.12
	CO656	Connected member	5.99	1.53	0.27	0.03	0.87
	CO656	Continuous member	-15.3	4.06	-4.25	4.64	8.09
	CO656	Connected member	7.34	2.49	1.06	0	0
265	CO657	Main member	-19.13	-5.21	-0.21	4.63	8.17
	CO657	Connected member	5.77	1.53	0.27	0.03	0.86
	CO657	Continuous member	-11.81	4.1	-4.24	4.62	8.14
	CO657	Connected member	7.82	2.49	1.06	0	0
265	CO658	Main member	-21.56	-5.16	-0.2	4.72	8
	CO658	Connected member	5.55	1.54	0.27	0.03	0.87
	CO658	Continuous member	-15.18	3.27	-4.24	4.71	7.97
	CO658	Connected member	6.68	2.5	1.06	0	0
265	CO659	Main member	6.92	5.21	-0.14	-8.41	-12.14
	CO659	Connected member	-2.15	-2.58	0.23	0.01	-1.33
	CO659	Continuous member	-5.99	-7.23	6.55	-8.37	-12.15
	CO659	Connected member	-16.65	-4.13	1.08	0	0
265	CO660	Main member	6.63	5.21	-0.13	-8.28	-12.18
	CO660	Connected member	-2.59	-2.58	0.23	0.01	-1.33
	CO660	Continuous member	-6.83	-8.05	6.56	-8.24	-12.19
	CO660	Connected member	-17.32	-4.14	1.08	0	0
265	CO661	Main member	6.14	5.18	-0.13	-8.29	-12.06
	CO661	Connected member	-1.97	-2.58	0.23	0.01	-1.33
	CO661	Continuous member	-6.9	-7.18	6.56	-8.24	-12.07
	CO661	Connected member	-16.81	-4.13	1.08	0	0
265	CO662	Main member	6.89	5.22	-0.14	-8.29	-12.2
	CO662	Connected member	-2.79	-2.58	0.23	0	-1.33
	CO662	Continuous member	-6.82	-8.42	6.55	-8.24	-12.21
	CO662	Connected member	-17.63	-4.14	1.08	0	0
265	CO663	Main member	1.58	0.87	-0.13	-12.58	-4.42
	CO663	Connected member	0.5	-3.98	0.2	0.16	-2.28
	CO663	Continuous member	-4.85	-4.46	10.13	-12.54	-4.58
	CO663	Connected member	-8.74	-6.3	1.07	0	0
265	CO664	Main member	-19.02	-5.18	-0.19	4.7	8.06
	CO664	Connected member	5.47	1.53	0.27	0.03	0.86
	CO664	Continuous member	-12.17	3.51	-4.23	4.7	8.03
	CO664	Connected member	7.25	2.49	1.06	0	0
265	CO665	Main member	-21.79	-5.21	-0.22	4.63	8.14
	CO665	Connected member	5.96	1.53	0.27	0.03	0.87
	CO665	Continuous member	-14.8	4.07	-4.25	4.63	8.1
	CO665	Connected member	7.41	2.49	1.06	0	0
265	CO666	Main member	-19.58	-5.21	-0.21	4.63	8.16
	CO666	Connected member	5.81	1.53	0.27	0.03	0.86
	CO666	Continuous member	-12.31	4.09	-4.24	4.62	8.13
	CO666	Connected member	7.75	2.49	1.06	0	0
265	CO667	Main member	-22.01	-5.16	-0.2	4.72	8
	CO667	Connected member	5.58	1.54	0.27	0.03	0.87
	CO667	Continuous member	-15.69	3.27	-4.24	4.71	7.96
	CO667	Connected member	6.61	2.5	1.06	0	0
265	CO668	Main member	6.47	5.21	-0.14	-8.41	-12.15
	CO668	Connected member	-2.12	-2.58	0.23	0.01	-1.33
	CO668	Continuous member	-6.49	-7.24	6.55	-8.37	-12.15
	CO668	Connected member	-16.71	-4.13	1.08	0	0
265	CO669	Main member	6.18	5.21	-0.13	-8.28	-12.18
	CO669	Connected member	-2.55	-2.58	0.23	0.01	-1.33
	CO669	Continuous member	-7.33	-8.05	6.56	-8.24	-12.19
	CO669	Connected member	-17.38	-4.14	1.08	0	0
265	CO670	Main member	5.69	5.18	-0.13	-8.29	-12.07
	CO670	Connected member	-1.94	-2.58	0.23	0.01	-1.33
	CO670	Continuous member	-7.4	-7.18	6.56	-8.24	-12.07
	CO670	Connected member	-16.87	-4.13	1.08	0	0
265	CO671	Main member	6.44	5.22	-0.14	-8.29	-12.2
	CO671	Connected member	-2.76	-2.58	0.23	0	-1.33
	CO671	Continuous member	-7.32	-8.42	6.55	-8.24	-12.21
	CO671	Connected member	-17.69	-4.14	1.08	0	0
265	CO672	Main member	1.13	0.88	-0.14	-12.59	-4.43
	CO672	Connected member	0.53	-3.98	0.2	0.16	-2.28



::LAVteam::

Page: 218/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO672	Continuous member	-5.35	-4.46	10.13	-12.54	-4.58
	CO672	Connected member	-8.8	-6.3	1.07	0	0
	CO673	Main member	-19.47	-5.18	-0.2	4.7	8.06
265	CO673	Connected member	5.5	1.53	0.27	0.03	0.86
	CO673	Continuous member	-12.67	3.5	-4.23	4.7	8.03
	CO673	Connected member	7.19	2.49	1.06	0	0
265	CO674	Main member	-22.24	-5.21	-0.22	4.63	8.13
	CO674	Connected member	6	1.53	0.27	0.03	0.87
	CO674	Continuous member	-15.31	4.06	-4.26	4.63	8.1
265	CO674	Connected member	7.35	2.49	1.06	0	0
	CO675	Main member	-18.98	-5.2	-0.2	4.68	8.14
	CO675	Connected member	5.75	1.53	0.27	0.03	0.86
265	CO675	Continuous member	-11.68	4.07	-4.23	4.68	8.11
	CO675	Connected member	7.79	2.49	1.06	0	0
265	CO676	Main member	-21.42	-5.15	-0.2	4.77	7.98
	CO676	Connected member	5.53	1.54	0.27	0.03	0.87
	CO676	Continuous member	-15.06	3.26	-4.24	4.77	7.94
265	CO676	Connected member	6.65	2.5	1.06	0	0
	CO677	Main member	7.03	5.21	-0.14	-8.36	-12.13
	CO677	Connected member	-2.16	-2.58	0.23	0	-1.33
265	CO677	Continuous member	-5.85	-7.23	6.55	-8.31	-12.13
	CO677	Connected member	-16.62	-4.13	1.08	0	0
265	CO678	Main member	6.73	5.21	-0.13	-8.23	-12.17
	CO678	Connected member	-2.6	-2.58	0.23	0	-1.33
	CO678	Continuous member	-6.7	-8.04	6.56	-8.18	-12.17
265	CO678	Connected member	-17.29	-4.14	1.08	0	0
	CO679	Main member	6.25	5.18	-0.12	-8.23	-12.05
	CO679	Connected member	-1.99	-2.58	0.23	0	-1.32
265	CO679	Continuous member	-6.77	-7.17	6.56	-8.19	-12.05
	CO679	Connected member	-16.78	-4.13	1.08	0	0
265	CO680	Main member	7	5.22	-0.14	-8.23	-12.19
	CO680	Connected member	-2.8	-2.58	0.23	0	-1.33
	CO680	Continuous member	-6.69	-8.41	6.55	-8.18	-12.19
265	CO680	Connected member	-17.6	-4.14	1.08	0	0
	CO681	Main member	1.69	0.88	-0.13	-12.53	-4.42
	CO681	Connected member	0.48	-3.98	0.2	0.16	-2.28
265	CO681	Continuous member	-4.72	-4.46	10.13	-12.49	-4.57
	CO681	Connected member	-8.73	-6.3	1.07	0	0
265	CO682	Main member	-18.88	-5.17	-0.19	4.76	8.04
	CO682	Connected member	5.45	1.53	0.27	0.03	0.86
	CO682	Continuous member	-12.05	3.49	-4.22	4.75	8
265	CO682	Connected member	7.23	2.49	1.06	0	0
	CO683	Main member	-21.65	-5.19	-0.21	4.69	8.11
	CO683	Connected member	5.94	1.54	0.27	0.03	0.88
265	CO683	Continuous member	-14.68	4.05	-4.25	4.68	8.08
	CO683	Connected member	7.39	2.49	1.06	0	0
265	CO684	Main member	-19.43	-5.2	-0.2	4.68	8.14
	CO684	Connected member	5.78	1.53	0.27	0.03	0.87
	CO684	Continuous member	-12.19	4.07	-4.24	4.68	8.11
265	CO684	Connected member	7.73	2.49	1.06	0	0
	CO685	Main member	-21.87	-5.15	-0.2	4.78	7.97
	CO685	Connected member	5.56	1.54	0.27	0.03	0.88
265	CO685	Continuous member	-15.56	3.25	-4.24	4.77	7.94
	CO685	Connected member	6.59	2.5	1.06	0	0
265	CO686	Main member	6.58	5.21	-0.14	-8.36	-12.13
	CO686	Connected member	-2.13	-2.58	0.23	0	-1.33
	CO686	Continuous member	-6.36	-7.23	6.55	-8.31	-12.13
265	CO686	Connected member	-16.68	-4.13	1.08	0	0
	CO687	Main member	6.28	5.21	-0.13	-8.23	-12.17
	CO687	Connected member	-2.56	-2.58	0.23	0	-1.33
265	CO687	Continuous member	-7.2	-8.04	6.56	-8.18	-12.17
	CO687	Connected member	-17.35	-4.14	1.08	0	0
265	CO688	Main member	5.8	5.18	-0.13	-8.23	-12.05
	CO688	Connected member	-1.95	-2.58	0.23	0	-1.32
	CO688	Continuous member	-7.27	-7.17	6.56	-8.19	-12.05
265	CO688	Connected member	-16.84	-4.13	1.08	0	0
	CO689	Main member	6.55	5.22	-0.14	-8.23	-12.19
	CO689	Connected member	-2.77	-2.58	0.23	0	-1.33
265	CO689	Continuous member	-7.19	-8.42	6.55	-8.18	-12.19
	CO689	Connected member	-17.66	-4.14	1.08	0	0
265	CO690	Main member	1.25	0.88	-0.13	-12.53	-4.42
	CO690	Connected member	0.51	-3.98	0.2	0.16	-2.27
	CO690	Continuous member	-5.22	-4.46	10.13	-12.49	-4.58
265	CO690	Connected member	-8.79	-6.3	1.07	0	0
	CO691	Main member	-19.33	-5.16	-0.19	4.76	8.03
	CO691	Connected member	5.48	1.53	0.27	0.03	0.86
265	CO691	Continuous member	-12.55	3.49	-4.22	4.76	8
	CO691	Connected member	7.16	2.49	1.06	0	0
265	CO692	Main member	-22.1	-5.19	-0.21	4.69	8.1
	CO692	Connected member	5.98	1.54	0.27	0.03	0.88
	CO692	Continuous member	-15.18	4.04	-4.25	4.68	8.07
265	CO692	Connected member	7.32	2.49	1.06	0	0
	CO693	Main member	-19.1	-5.2	-0.2	4.67	8.15
	CO693	Connected member	5.76	1.53	0.27	0.03	0.86
265	CO693	Continuous member	-11.81	4.08	-4.24	4.66	8.12
	CO693	Connected member	7.79	2.49	1.06	0	0
265	CO694	Main member	-21.54	-5.15	-0.2	4.76	7.98
	CO694	Connected member	5.54	1.54	0.27	0.03	0.87
	CO694	Continuous member	-15.18	3.26	-4.24	4.75	7.95
265	CO694	Connected member	6.65	2.5	1.06	0	0
	CO695	Main member	6.92	5.21	-0.14	-8.37	-12.13
	CO695	Connected member	-2.15	-2.58	0.23	0.01	-1.33
265	CO695	Continuous member	-5.98	-7.23	6.55	-8.33	-12.14
	CO695	Connected member	-16.64	-4.13	1.08	0	0



::LAVteam::

Page: 219/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO696	Main member	6.62	5.21	-0.13	-8.24	-12.17
	CO696	Connected member	-2.59	-2.58	0.23	0	-1.33
	CO696	Continuous member	-6.83	-8.05	6.56	-8.2	-12.18
	CO696	Connected member	-17.31	-4.14	1.08	0	0
265	CO697	Main member	6.14	5.18	-0.13	-8.25	-12.05
	CO697	Connected member	-1.98	-2.58	0.23	0	-1.33
	CO697	Continuous member	-6.89	-7.17	6.56	-8.2	-12.06
	CO697	Connected member	-16.8	-4.13	1.08	0	0
265	CO698	Main member	6.89	5.22	-0.14	-8.24	-12.19
	CO698	Connected member	-2.79	-2.58	0.23	0	-1.33
	CO698	Continuous member	-6.81	-8.42	6.55	-8.2	-12.19
	CO698	Connected member	-17.62	-4.14	1.08	0	0
265	CO699	Main member	1.58	0.88	-0.13	-12.54	-4.42
	CO699	Connected member	0.49	-3.98	0.2	0.16	-2.28
	CO699	Continuous member	-4.84	-4.46	10.13	-12.5	-4.58
	CO699	Connected member	-8.74	-6.3	1.07	0	0
265	CO700	Main member	-19	-5.17	-0.19	4.75	8.04
	CO700	Connected member	5.46	1.53	0.27	0.03	0.86
	CO700	Continuous member	-12.17	3.49	-4.22	4.74	8.01
	CO700	Connected member	7.22	2.49	1.06	0	0
265	CO701	Main member	-21.77	-5.2	-0.21	4.67	8.12
	CO701	Connected member	5.95	1.53	0.27	0.03	0.87
	CO701	Continuous member	-14.8	4.05	-4.25	4.67	8.08
	CO701	Connected member	7.39	2.49	1.06	0	0
265	CO702	Main member	-19.11	-5.21	-0.2	4.65	8.16
	CO702	Connected member	5.77	1.53	0.27	0.03	0.86
	CO702	Continuous member	-11.81	4.09	-4.24	4.65	8.13
	CO702	Connected member	7.8	2.49	1.06	0	0
265	CO703	Main member	-21.55	-5.16	-0.2	4.74	7.99
	CO703	Connected member	5.54	1.54	0.27	0.03	0.87
	CO703	Continuous member	-15.18	3.27	-4.24	4.74	7.96
	CO703	Connected member	6.66	2.5	1.06	0	0
265	CO704	Main member	6.92	5.21	-0.14	-8.39	-12.14
	CO704	Connected member	-2.15	-2.58	0.23	0.01	-1.33
	CO704	Continuous member	-5.98	-7.23	6.55	-8.34	-12.14
	CO704	Connected member	-16.64	-4.13	1.08	0	0
265	CO705	Main member	6.62	5.21	-0.13	-8.26	-12.17
	CO705	Connected member	-2.59	-2.58	0.23	0.01	-1.33
	CO705	Continuous member	-6.83	-8.05	6.56	-8.21	-12.18
	CO705	Connected member	-17.31	-4.14	1.08	0	0
265	CO706	Main member	6.14	5.18	-0.13	-8.26	-12.06
	CO706	Connected member	-1.98	-2.58	0.23	0	-1.33
	CO706	Continuous member	-6.89	-7.17	6.56	-8.22	-12.06
	CO706	Connected member	-16.8	-4.13	1.08	0	0
265	CO707	Main member	6.89	5.22	-0.14	-8.26	-12.19
	CO707	Connected member	-2.79	-2.58	0.23	0	-1.33
	CO707	Continuous member	-6.82	-8.42	6.55	-8.21	-12.2
	CO707	Connected member	-17.62	-4.14	1.08	0	0
265	CO708	Main member	1.58	0.88	-0.13	-12.56	-4.42
	CO708	Connected member	0.49	-3.98	0.2	0.16	-2.28
	CO708	Continuous member	-4.84	-4.46	10.13	-12.52	-4.58
	CO708	Connected member	-8.74	-6.3	1.07	0	0
265	CO709	Main member	-19.01	-5.17	-0.19	4.73	8.05
	CO709	Connected member	5.46	1.53	0.27	0.03	0.86
	CO709	Continuous member	-12.17	3.5	-4.22	4.72	8.02
	CO709	Connected member	7.23	2.49	1.06	0	0
265	CO710	Main member	-21.78	-5.2	-0.21	4.66	8.12
	CO710	Connected member	5.96	1.53	0.27	0.03	0.87
	CO710	Continuous member	-14.8	4.06	-4.25	4.65	8.09
	CO710	Connected member	7.4	2.49	1.06	0	0
265	CO711	Main member	-18.97	-5.19	-0.2	4.71	8.13
	CO711	Connected member	5.75	1.53	0.27	0.03	0.87
	CO711	Continuous member	-11.68	4.07	-4.23	4.7	8.1
	CO711	Connected member	7.77	2.49	1.06	0	0
265	CO712	Main member	-21.4	-5.14	-0.19	4.8	7.96
	CO712	Connected member	5.52	1.54	0.27	0.03	0.88
	CO712	Continuous member	-15.06	3.25	-4.23	4.8	7.93
	CO712	Connected member	6.63	2.5	1.06	0	0
265	CO713	Main member	7.03	5.21	-0.14	-8.33	-12.12
	CO713	Connected member	-2.16	-2.58	0.23	0	-1.33
	CO713	Continuous member	-5.85	-7.23	6.55	-8.29	-12.12
	CO713	Connected member	-16.61	-4.13	1.08	0	0
265	CO714	Main member	6.73	5.21	-0.13	-8.2	-12.16
	CO714	Connected member	-2.6	-2.58	0.23	0	-1.33
	CO714	Continuous member	-6.7	-8.04	6.56	-8.15	-12.16
	CO714	Connected member	-17.28	-4.14	1.08	0	0
265	CO715	Main member	6.25	5.18	-0.12	-8.21	-12.04
	CO715	Connected member	-1.99	-2.58	0.23	0	-1.32
	CO715	Continuous member	-6.76	-7.17	6.57	-8.16	-12.04
	CO715	Connected member	-16.77	-4.13	1.08	0	0
265	CO716	Main member	7	5.22	-0.14	-8.2	-12.18
	CO716	Connected member	-2.8	-2.58	0.23	0	-1.33
	CO716	Continuous member	-6.68	-8.41	6.55	-8.16	-12.18
	CO716	Connected member	-17.59	-4.14	1.08	0	0
265	CO717	Main member	1.7	0.88	-0.13	-12.5	-4.42
	CO717	Connected member	0.48	-3.98	0.2	0.15	-2.27
	CO717	Continuous member	-4.71	-4.46	10.13	-12.46	-4.57
	CO717	Connected member	-8.73	-6.3	1.07	0	0
265	CO718	Main member	-18.86	-5.16	-0.19	4.79	8.03
	CO718	Connected member	5.44	1.53	0.27	0.03	0.86
	CO718	Continuous member	-12.04	3.48	-4.22	4.78	7.99
	CO718	Connected member	7.21	2.49	1.06	0	0
265	CO719	Main member	-21.63	-5.19	-0.21	4.71	8.1
	CO719	Connected member	5.94	1.54	0.27	0.03	0.88



::LAV/team::

Page: 220/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO719	Continuous member	-14.68	4.04	-4.25	4.71	8.06
	CO719	Connected member	7.37	2.49	1.06	0	0
	CO720	Main member	-4.83	-0.03	-0.13	-0.18	-0.06
265	CO720	Connected member	0.88	0	0.37	-0.3	-0.01
	CO720	Continuous member	-3.37	0.29	-0.13	-0.18	0.23
	CO720	Connected member	0.58	0	1.07	0	0
265	CO721	Main member	-5.28	-0.03	-0.13	-0.18	-0.07
	CO721	Connected member	0.91	0	0.37	-0.3	-0.01
	CO721	Continuous member	-3.87	0.29	-0.13	-0.18	0.23
265	CO721	Connected member	0.52	0	1.07	0	0
	CO722	Main member	-18.98	-5.2	-0.2	4.7	8.14
	CO722	Connected member	5.75	1.53	0.27	0.03	0.87
265	CO722	Continuous member	-11.68	4.07	-4.23	4.69	8.1
	CO722	Connected member	7.78	2.49	1.06	0	0
265	CO723	Main member	-21.41	-5.15	-0.19	4.79	7.97
	CO723	Connected member	5.52	1.54	0.27	0.03	0.88
	CO723	Continuous member	-15.06	3.25	-4.23	4.79	7.93
265	CO723	Connected member	6.64	2.5	1.06	0	0
	CO724	Main member	7.03	5.21	-0.14	-8.34	-12.12
	CO724	Connected member	-2.16	-2.58	0.23	0	-1.33
265	CO724	Continuous member	-5.85	-7.23	6.55	-8.3	-12.13
	CO724	Connected member	-16.62	-4.13	1.08	0	0
265	CO725	Main member	6.73	5.21	-0.13	-8.21	-12.16
	CO725	Connected member	-2.6	-2.58	0.23	0	-1.33
	CO725	Continuous member	-6.7	-8.04	6.56	-8.16	-12.16
265	CO725	Connected member	-17.29	-4.14	1.08	0	0
	CO726	Main member	6.25	5.18	-0.12	-8.22	-12.04
	CO726	Connected member	-1.99	-2.58	0.23	0	-1.32
265	CO726	Continuous member	-6.76	-7.17	6.56	-8.17	-12.05
	CO726	Connected member	-16.77	-4.13	1.08	0	0
265	CO727	Main member	7	5.22	-0.14	-8.21	-12.18
	CO727	Connected member	-2.8	-2.58	0.23	0	-1.33
	CO727	Continuous member	-6.69	-8.41	6.55	-8.17	-12.18
265	CO727	Connected member	-17.6	-4.14	1.08	0	0
	CO728	Main member	1.7	0.88	-0.13	-12.51	-4.42
	CO728	Connected member	0.48	-3.98	0.2	0.15	-2.28
265	CO728	Continuous member	-4.72	-4.46	10.13	-12.47	-4.57
	CO728	Connected member	-8.73	-6.3	1.07	0	0
265	CO729	Main member	-18.87	-5.16	-0.19	4.78	8.03
	CO729	Connected member	5.45	1.53	0.27	0.03	0.86
	CO729	Continuous member	-12.04	3.48	-4.22	4.77	8
265	CO729	Connected member	7.22	2.49	1.06	0	0
	CO730	Main member	-21.64	-5.19	-0.21	4.7	8.1
	CO730	Connected member	5.94	1.54	0.27	0.03	0.88
265	CO730	Continuous member	-14.68	4.04	-4.25	4.7	8.07
	CO730	Connected member	7.38	2.49	1.06	0	0
265	CO731	Main member	-19.42	-5.19	-0.2	4.7	8.13
	CO731	Connected member	5.78	1.53	0.27	0.03	0.87
	CO731	Continuous member	-12.19	4.07	-4.24	4.7	8.1
265	CO731	Connected member	7.72	2.49	1.06	0	0
	CO732	Main member	-21.86	-5.14	-0.2	4.79	7.96
	CO732	Connected member	5.56	1.54	0.27	0.03	0.88
265	CO732	Continuous member	-15.56	3.25	-4.24	4.79	7.93
	CO732	Connected member	6.58	2.5	1.06	0	0
265	CO733	Main member	6.58	5.21	-0.14	-8.34	-12.13
	CO733	Connected member	-2.13	-2.58	0.23	0	-1.33
	CO733	Continuous member	-6.35	-7.23	6.55	-8.3	-12.13
265	CO733	Connected member	-16.68	-4.13	1.08	0	0
	CO734	Main member	6.28	5.21	-0.13	-8.21	-12.16
	CO734	Connected member	-2.57	-2.58	0.23	0	-1.33
265	CO734	Continuous member	-7.2	-8.04	6.56	-8.17	-12.17
	CO734	Connected member	-17.35	-4.14	1.08	0	0
265	CO735	Main member	5.8	5.18	-0.12	-8.22	-12.05
	CO735	Connected member	-1.95	-2.58	0.23	0	-1.32
	CO735	Continuous member	-7.26	-7.17	6.56	-8.17	-12.05
265	CO735	Connected member	-16.84	-4.13	1.08	0	0
	CO736	Main member	6.55	5.22	-0.14	-8.22	-12.18
	CO736	Connected member	-2.77	-2.58	0.23	0	-1.33
265	CO736	Continuous member	-7.19	-8.41	6.55	-8.17	-12.19
	CO736	Connected member	-17.66	-4.14	1.08	0	0
265	CO737	Main member	1.25	0.88	-0.13	-12.51	-4.42
	CO737	Connected member	0.51	-3.98	0.2	0.15	-2.27
	CO737	Continuous member	-5.22	-4.46	10.13	-12.47	-4.58
265	CO737	Connected member	-8.79	-6.3	1.07	0	0
	CO738	Main member	-19.32	-5.16	-0.19	4.78	8.03
	CO738	Connected member	5.48	1.53	0.27	0.03	0.87
265	CO738	Continuous member	-12.55	3.48	-4.22	4.77	7.99
	CO738	Connected member	7.15	2.49	1.06	0	0
265	CO739	Main member	-22.09	-5.19	-0.21	4.7	8.1
	CO739	Connected member	5.97	1.54	0.27	0.03	0.88
	CO739	Continuous member	-15.18	4.04	-4.25	4.7	8.06
265	CO739	Connected member	7.31	2.49	1.06	0	0
	CO740	Main member	-18.96	-5.19	-0.2	4.73	8.12
	CO740	Connected member	5.74	1.53	0.27	0.03	0.87
265	CO740	Continuous member	-11.68	4.06	-4.23	4.72	8.09
	CO740	Connected member	7.76	2.49	1.06	0	0
265	CO741	Main member	-21.39	-5.14	-0.19	4.82	7.96
	CO741	Connected member	5.52	1.54	0.27	0.03	0.88
	CO741	Continuous member	-15.05	3.24	-4.23	4.81	7.92
265	CO741	Connected member	6.62	2.5	1.06	0	0
	CO742	Main member	7.03	5.21	-0.13	-8.32	-12.12
	CO742	Connected member	-2.17	-2.58	0.23	0	-1.33
265	CO742	Continuous member	-5.85	-7.23	6.56	-8.27	-12.12
	CO742	Connected member	-16.61	-4.13	1.08	0	0



::LAV/team::

Page: 221/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO743	Main member	6.73	5.21	-0.13	-8.18	-12.15
	CO743	Connected member	-2.6	-2.58	0.23	0	-1.33
	CO743	Continuous member	-6.69	-8.04	6.56	-8.14	-12.16
	CO743	Connected member	-17.28	-4.14	1.08	0	0
265	CO744	Main member	6.25	5.18	-0.12	-8.19	-12.04
	CO744	Connected member	-1.99	-2.58	0.23	0	-1.32
	CO744	Continuous member	-6.76	-7.17	6.57	-8.15	-12.04
	CO744	Connected member	-16.77	-4.13	1.08	0	0
265	CO745	Main member	7	5.22	-0.14	-8.19	-12.17
	CO745	Connected member	-2.81	-2.58	0.23	0	-1.33
	CO745	Continuous member	-6.68	-8.41	6.55	-8.14	-12.18
	CO745	Connected member	-17.59	-4.14	1.08	0	0
265	CO746	Main member	1.7	0.88	-0.13	-12.49	-4.42
	CO746	Connected member	0.48	-3.98	0.2	0.15	-2.27
	CO746	Continuous member	-4.71	-4.46	10.13	-12.45	-4.57
	CO746	Connected member	-8.73	-6.3	1.07	0	0
265	CO747	Main member	-18.86	-5.15	-0.18	4.8	8.02
	CO747	Connected member	5.44	1.53	0.27	0.03	0.87
	CO747	Continuous member	-12.04	3.47	-4.22	4.8	7.98
	CO747	Connected member	7.2	2.49	1.06	0	0
265	CO748	Main member	-21.62	-5.18	-0.21	4.73	8.09
	CO748	Connected member	5.93	1.54	0.27	0.03	0.88
	CO748	Continuous member	-14.68	4.03	-4.25	4.72	8.06
	CO748	Connected member	7.36	2.49	1.06	0	0
265	CO749	Main member	-4.79	-0.02	-0.13	-0.1	-0.09
	CO749	Connected member	0.87	0	0.37	-0.3	-0.01
	CO749	Continuous member	-3.37	0.27	-0.12	-0.1	0.21
	CO749	Connected member	0.54	0	1.07	0	0
265	CO750	Main member	-5.68	-0.02	-0.13	-0.1	-0.1
	CO750	Connected member	0.93	0	0.37	-0.3	0
	CO750	Continuous member	-4.37	0.26	-0.13	-0.1	0.2
	CO750	Connected member	0.41	0	1.07	0	0
265	CO751	Main member	-4.93	-0.03	-0.13	-0.16	-0.07
	CO751	Connected member	0.88	0	0.37	-0.3	-0.01
	CO751	Continuous member	-3.49	0.28	-0.13	-0.16	0.23
	CO751	Connected member	0.55	0	1.07	0	0
265	CO752	Main member	-5.82	-0.03	-0.13	-0.16	-0.08
	CO752	Connected member	0.95	0	0.37	-0.3	-0.01
	CO752	Continuous member	-4.5	0.28	-0.13	-0.16	0.22
	CO752	Connected member	0.42	0	1.07	0	0
265	CO753	Main member	-4.93	-0.03	-0.13	-0.17	-0.07
	CO753	Connected member	0.88	-0.01	0.37	-0.3	-0.01
	CO753	Continuous member	-3.49	0.29	-0.13	-0.17	0.23
	CO753	Connected member	0.56	0	1.07	0	0
265	CO754	Main member	-5.83	-0.03	-0.13	-0.17	-0.08
	CO754	Connected member	0.95	0	0.37	-0.3	-0.01
	CO754	Continuous member	-4.5	0.28	-0.13	-0.17	0.22
	CO754	Connected member	0.43	0	1.07	0	0
265	CO755	Main member	-4.8	-0.02	-0.13	-0.12	-0.08
	CO755	Connected member	0.87	0	0.37	-0.3	-0.01
	CO755	Continuous member	-3.37	0.27	-0.12	-0.12	0.21
	CO755	Connected member	0.55	0	1.07	0	0
265	CO756	Main member	-5.69	-0.02	-0.13	-0.12	-0.09
	CO756	Connected member	0.93	0	0.37	-0.3	0
	CO756	Continuous member	-4.37	0.26	-0.13	-0.12	0.2
	CO756	Connected member	0.41	0	1.07	0	0
265	CO757	Main member	-19.07	-5.19	-0.2	4.72	8.12
	CO757	Connected member	5.75	1.53	0.27	0.03	0.87
	CO757	Continuous member	-11.8	4.06	-4.23	4.72	8.09
	CO757	Connected member	7.75	2.49	1.06	0	0
265	CO758	Main member	-21.5	-5.14	-0.19	4.81	7.96
	CO758	Connected member	5.53	1.54	0.27	0.03	0.88
	CO758	Continuous member	-15.18	3.24	-4.23	4.81	7.92
	CO758	Connected member	6.61	2.5	1.06	0	0
265	CO759	Main member	6.92	5.21	-0.13	-8.32	-12.12
	CO759	Connected member	-2.16	-2.58	0.23	0	-1.33
	CO759	Continuous member	-5.97	-7.23	6.56	-8.28	-12.12
	CO759	Connected member	-16.63	-4.13	1.08	0	0
265	CO760	Main member	6.62	5.21	-0.13	-8.19	-12.16
	CO760	Connected member	-2.59	-2.58	0.23	0	-1.33
	CO760	Continuous member	-6.82	-8.04	6.56	-8.14	-12.16
	CO760	Connected member	-17.3	-4.14	1.08	0	0
265	CO761	Main member	6.14	5.18	-0.12	-8.2	-12.04
	CO761	Connected member	-1.98	-2.58	0.23	0	-1.32
	CO761	Continuous member	-6.88	-7.17	6.57	-8.15	-12.04
	CO761	Connected member	-16.79	-4.13	1.08	0	0
265	CO762	Main member	6.89	5.22	-0.14	-8.19	-12.18
	CO762	Connected member	-2.8	-2.58	0.23	0	-1.33
	CO762	Continuous member	-6.8	-8.41	6.55	-8.15	-12.18
	CO762	Connected member	-17.61	-4.14	1.08	0	0
265	CO763	Main member	1.59	0.88	-0.13	-12.49	-4.42
	CO763	Connected member	0.49	-3.98	0.2	0.15	-2.28
	CO763	Continuous member	-4.83	-4.46	10.13	-12.45	-4.57
	CO763	Connected member	-8.74	-6.3	1.07	0	0
265	CO764	Main member	-18.97	-5.16	-0.19	4.8	8.02
	CO764	Connected member	5.45	1.53	0.27	0.03	0.86
	CO764	Continuous member	-12.17	3.48	-4.22	4.79	7.99
	CO764	Connected member	7.19	2.49	1.06	0	0
265	CO765	Main member	-21.73	-5.18	-0.21	4.72	8.09
	CO765	Connected member	5.94	1.54	0.27	0.03	0.88
	CO765	Continuous member	-14.8	4.03	-4.25	4.72	8.06
	CO765	Connected member	7.35	2.49	1.06	0	0
265	CO766	Main member	-19.97	-5.19	-0.2	4.72	8.11
	CO766	Connected member	5.82	1.53	0.27	0.03	0.87



::LAVteam::

Page: 222/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO766	Continuous member	-12.81	4.06	-4.24	4.72	8.08
	CO766	Connected member	7.62	2.49	1.06	0	0
	CO767	Main member	-22.4	-5.14	-0.2	4.81	7.95
265	CO767	Connected member	5.59	1.54	0.27	0.03	0.88
	CO767	Continuous member	-16.18	3.24	-4.24	4.81	7.91
	CO767	Connected member	6.48	2.5	1.06	0	0
265	CO768	Main member	6.02	5.21	-0.14	-8.32	-12.13
	CO768	Connected member	-2.09	-2.58	0.23	0	-1.33
	CO768	Continuous member	-6.97	-7.23	6.55	-8.28	-12.13
265	CO768	Connected member	-16.75	-4.13	1.08	0	0
	CO769	Main member	5.72	5.21	-0.13	-8.19	-12.16
	CO769	Connected member	-2.52	-2.58	0.23	0	-1.33
265	CO769	Continuous member	-7.82	-8.04	6.56	-8.15	-12.17
	CO769	Connected member	-17.42	-4.14	1.08	0	0
265	CO770	Main member	5.24	5.18	-0.12	-8.2	-12.05
	CO770	Connected member	-1.91	-2.58	0.23	0	-1.32
	CO770	Continuous member	-7.88	-7.17	6.56	-8.15	-12.05
265	CO770	Connected member	-16.91	-4.13	1.08	0	0
	CO771	Main member	5.99	5.22	-0.14	-8.2	-12.18
	CO771	Connected member	-2.73	-2.58	0.23	0	-1.33
265	CO771	Continuous member	-7.8	-8.41	6.55	-8.15	-12.18
	CO771	Connected member	-17.73	-4.14	1.08	0	0
265	CO772	Main member	0.69	0.88	-0.13	-12.49	-4.43
	CO772	Connected member	0.55	-3.98	0.2	0.15	-2.27
	CO772	Continuous member	-5.83	-4.46	10.13	-12.45	-4.58
265	CO772	Connected member	-8.87	-6.3	1.07	0	0
	CO773	Main member	-19.86	-5.15	-0.19	4.8	8.01
	CO773	Connected member	5.52	1.53	0.27	0.03	0.87
265	CO773	Continuous member	-13.17	3.47	-4.22	4.79	7.98
	CO773	Connected member	7.05	2.49	1.06	0	0
265	CO774	Main member	-22.63	-5.18	-0.21	4.72	8.08
	CO774	Connected member	6.01	1.54	0.27	0.03	0.88
	CO774	Continuous member	-15.8	4.03	-4.25	4.72	8.05
265	CO774	Connected member	7.22	2.49	1.06	0	0
	CO775	Main member	-19.08	-5.19	-0.2	4.71	8.13
	CO775	Connected member	5.75	1.53	0.27	0.03	0.86
265	CO775	Continuous member	-11.8	4.07	-4.23	4.7	8.1
	CO775	Connected member	7.76	2.49	1.06	0	0
	CO776	Main member	-21.51	-5.14	-0.19	4.8	7.96
265	CO776	Connected member	5.53	1.54	0.27	0.03	0.87
	CO776	Continuous member	-15.18	3.25	-4.23	4.79	7.93
	CO776	Connected member	6.62	2.5	1.06	0	0
265	CO777	Main member	6.92	5.21	-0.14	-8.34	-12.12
	CO777	Connected member	-2.16	-2.58	0.23	0	-1.33
	CO777	Continuous member	-5.97	-7.23	6.55	-8.29	-12.13
265	CO777	Connected member	-16.63	-4.13	1.08	0	0
	CO778	Main member	6.62	5.21	-0.13	-8.21	-12.16
	CO778	Connected member	-2.59	-2.58	0.23	0	-1.33
265	CO778	Continuous member	-6.82	-8.04	6.56	-8.16	-12.16
	CO778	Connected member	-17.3	-4.14	1.08	0	0
265	CO779	Main member	6.14	5.18	-0.12	-8.21	-12.04
	CO779	Connected member	-1.98	-2.58	0.23	0	-1.32
	CO779	Continuous member	-6.88	-7.17	6.57	-8.17	-12.05
265	CO779	Connected member	-16.79	-4.13	1.08	0	0
	CO780	Main member	6.89	5.22	-0.14	-8.21	-12.18
	CO780	Connected member	-2.8	-2.58	0.23	0	-1.33
265	CO780	Continuous member	-6.81	-8.41	6.55	-8.16	-12.18
	CO780	Connected member	-17.61	-4.14	1.08	0	0
265	CO781	Main member	1.59	0.88	-0.13	-12.51	-4.42
	CO781	Connected member	0.49	-3.98	0.2	0.15	-2.28
	CO781	Continuous member	-4.84	-4.46	10.13	-12.47	-4.57
265	CO781	Connected member	-8.74	-6.3	1.07	0	0
	CO782	Main member	-18.98	-5.16	-0.19	4.78	8.03
	CO782	Connected member	5.45	1.53	0.27	0.03	0.86
265	CO782	Continuous member	-12.17	3.48	-4.22	4.78	7.99
	CO782	Connected member	7.2	2.49	1.06	0	0
265	CO783	Main member	-21.74	-5.19	-0.21	4.71	8.1
	CO783	Connected member	5.95	1.54	0.27	0.03	0.88
	CO783	Continuous member	-14.8	4.04	-4.25	4.7	8.07
265	CO783	Connected member	7.36	2.49	1.06	0	0
	CO784	Main member	-19.98	-5.19	-0.2	4.71	8.12
	CO784	Connected member	5.82	1.53	0.27	0.03	0.87
265	CO784	Continuous member	-12.81	4.06	-4.24	4.7	8.09
	CO784	Connected member	7.63	2.49	1.06	0	0
265	CO785	Main member	-22.41	-5.14	-0.2	4.8	7.95
	CO785	Connected member	5.6	1.54	0.27	0.03	0.88
	CO785	Continuous member	-16.18	3.24	-4.24	4.79	7.92
265	CO785	Connected member	6.49	2.5	1.06	0	0
	CO786	Main member	6.02	5.21	-0.14	-8.34	-12.13
	CO786	Connected member	-2.09	-2.58	0.23	0	-1.33
265	CO786	Continuous member	-6.97	-7.23	6.55	-8.29	-12.13
	CO786	Connected member	-16.75	-4.13	1.08	0	0
265	CO787	Main member	5.73	5.21	-0.13	-8.21	-12.17
	CO787	Connected member	-2.52	-2.58	0.23	0	-1.33
	CO787	Continuous member	-7.82	-8.05	6.56	-8.16	-12.17
265	CO787	Connected member	-17.42	-4.14	1.08	0	0
	CO788	Main member	5.24	5.18	-0.13	-8.21	-12.05
	CO788	Connected member	-1.91	-2.58	0.23	0	-1.32
265	CO788	Continuous member	-7.88	-7.17	6.56	-8.17	-12.05
	CO788	Connected member	-16.91	-4.13	1.08	0	0
265	CO789	Main member	5.99	5.22	-0.14	-8.21	-12.19
	CO789	Connected member	-2.73	-2.58	0.23	0	-1.33
	CO789	Continuous member	-7.81	-8.42	6.55	-8.16	-12.19
265	CO789	Connected member	-17.73	-4.14	1.08	0	0



::LAV/team::

Page: 223/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO790	Main member	0.69	0.88	-0.13	-12.51	-4.43
	CO790	Connected member	0.55	-3.98	0.2	0.15	-2.27
	CO790	Continuous member	-5.84	-4.46	10.13	-12.47	-4.58
	CO790	Connected member	-8.87	-6.3	1.07	0	0
265	CO791	Main member	-19.87	-5.16	-0.19	4.78	8.02
	CO791	Connected member	5.52	1.53	0.27	0.03	0.87
	CO791	Continuous member	-13.17	3.47	-4.23	4.78	7.98
	CO791	Connected member	7.07	2.49	1.06	0	0
265	CO792	Main member	-22.64	-5.18	-0.21	4.71	8.09
	CO792	Connected member	6.01	1.54	0.27	0.03	0.88
	CO792	Continuous member	-15.8	4.03	-4.25	4.7	8.05
	CO792	Connected member	7.23	2.49	1.06	0	0
265	CO793	Main member	-18.94	-5.18	-0.19	4.76	8.11
	CO793	Connected member	5.73	1.53	0.27	0.03	0.87
	CO793	Continuous member	-11.68	4.05	-4.23	4.76	8.07
	CO793	Connected member	7.74	2.49	1.06	0	0
265	CO794	Main member	-21.37	-5.13	-0.19	4.85	7.94
	CO794	Connected member	5.51	1.54	0.27	0.03	0.88
	CO794	Continuous member	-15.05	3.23	-4.23	4.85	7.9
	CO794	Connected member	6.6	2.5	1.06	0	0
265	CO795	Main member	7.03	5.21	-0.13	-8.28	-12.11
	CO795	Connected member	-2.17	-2.58	0.23	0	-1.33
	CO795	Continuous member	-5.84	-7.22	6.56	-8.24	-12.11
	CO795	Connected member	-16.6	-4.13	1.08	0	0
265	CO796	Main member	6.73	5.21	-0.12	-8.15	-12.15
	CO796	Connected member	-2.6	-2.58	0.23	0	-1.33
	CO796	Continuous member	-6.69	-8.04	6.57	-8.1	-12.15
	CO796	Connected member	-17.27	-4.14	1.08	0	0
265	CO797	Main member	6.25	5.18	-0.12	-8.16	-12.03
	CO797	Connected member	-1.99	-2.58	0.23	0	-1.32
	CO797	Continuous member	-6.75	-7.17	6.57	-8.11	-12.03
	CO797	Connected member	-16.76	-4.13	1.08	0	0
265	CO798	Main member	7	5.22	-0.13	-8.15	-12.17
	CO798	Connected member	-2.81	-2.58	0.24	0	-1.33
	CO798	Continuous member	-6.67	-8.41	6.56	-8.11	-12.16
	CO798	Connected member	-17.58	-4.14	1.08	0	0
265	CO799	Main member	1.7	0.89	-0.13	-12.45	-4.42
	CO799	Connected member	0.47	-3.98	0.2	0.15	-2.27
	CO799	Continuous member	-4.71	-4.46	10.13	-12.41	-4.57
	CO799	Connected member	-8.73	-6.3	1.07	0	0
265	CO800	Main member	-18.83	-5.14	-0.18	4.84	8
	CO800	Connected member	5.43	1.53	0.27	0.03	0.87
	CO800	Continuous member	-12.04	3.46	-4.22	4.83	7.97
	CO800	Connected member	7.17	2.49	1.06	0	0
265	CO801	Main member	-21.6	-5.17	-0.2	4.76	8.07
	CO801	Connected member	5.93	1.54	0.27	0.03	0.88
	CO801	Continuous member	-14.67	4.02	-4.24	4.76	8.04
	CO801	Connected member	7.34	2.49	1.06	0	0
265	CO802	Main member	-19.83	-5.18	-0.2	4.76	8.09
	CO802	Connected member	5.8	1.53	0.27	0.03	0.87
	CO802	Continuous member	-12.68	4.04	-4.23	4.76	8.06
	CO802	Connected member	7.61	2.49	1.06	0	0
265	CO803	Main member	-22.26	-5.13	-0.19	4.85	7.93
	CO803	Connected member	5.58	1.54	0.27	0.03	0.88
	CO803	Continuous member	-16.06	3.22	-4.24	4.85	7.89
	CO803	Connected member	6.47	2.5	1.06	0	0
265	CO804	Main member	6.13	5.21	-0.13	-8.28	-12.11
	CO804	Connected member	-2.1	-2.58	0.23	0	-1.33
	CO804	Continuous member	-6.84	-7.23	6.55	-8.24	-12.11
	CO804	Connected member	-16.72	-4.13	1.08	0	0
265	CO805	Main member	5.83	5.21	-0.13	-8.15	-12.15
	CO805	Connected member	-2.53	-2.58	0.23	0	-1.33
	CO805	Continuous member	-7.69	-8.04	6.56	-8.1	-12.15
	CO805	Connected member	-17.39	-4.14	1.08	0	0
265	CO806	Main member	5.35	5.18	-0.12	-8.16	-12.03
	CO806	Connected member	-1.92	-2.58	0.23	0	-1.32
	CO806	Continuous member	-7.75	-7.17	6.56	-8.11	-12.03
	CO806	Connected member	-16.88	-4.13	1.08	0	0
265	CO807	Main member	6.1	5.22	-0.14	-8.15	-12.17
	CO807	Connected member	-2.74	-2.58	0.24	0	-1.33
	CO807	Continuous member	-7.67	-8.41	6.55	-8.11	-12.17
	CO807	Connected member	-17.7	-4.14	1.08	0	0
265	CO808	Main member	0.81	0.89	-0.13	-12.45	-4.43
	CO808	Connected member	0.54	-3.98	0.2	0.15	-2.27
	CO808	Continuous member	-5.71	-4.47	10.13	-12.41	-4.58
	CO808	Connected member	-8.85	-6.3	1.07	0	0
265	CO809	Main member	-19.73	-5.14	-0.18	4.84	7.99
	CO809	Connected member	5.5	1.53	0.27	0.03	0.87
	CO809	Continuous member	-13.05	3.46	-4.22	4.83	7.96
	CO809	Connected member	7.04	2.49	1.06	0	0
265	CO810	Main member	-22.49	-5.17	-0.21	4.77	8.06
	CO810	Connected member	5.99	1.54	0.27	0.03	0.88
	CO810	Continuous member	-15.68	4.01	-4.25	4.76	8.03
	CO810	Connected member	7.2	2.49	1.06	0	0
265	CO811	Main member	-18.93	-5.18	-0.19	4.78	8.1
	CO811	Connected member	5.73	1.53	0.27	0.03	0.87
	CO811	Continuous member	-11.68	4.04	-4.23	4.77	8.07
	CO811	Connected member	7.73	2.49	1.06	0	0
265	CO812	Main member	-21.36	-5.13	-0.19	4.87	7.93
	CO812	Connected member	5.51	1.54	0.27	0.03	0.88
	CO812	Continuous member	-15.05	3.22	-4.23	4.86	7.9
	CO812	Connected member	6.59	2.5	1.06	0	0
265	CO813	Main member	7.03	5.21	-0.13	-8.27	-12.1
	CO813	Connected member	-2.17	-2.58	0.23	0	-1.33



::LAV/team::

Page: 224/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO813	Continuous member	-5.84	-7.22	6.56	-8.22	-12.1
	CO813	Connected member	-16.6	-4.13	1.08	0	0
	CO814	Main member	6.73	5.21	-0.12	-8.13	-12.14
265	CO814	Connected member	-2.6	-2.58	0.23	0	-1.33
	CO814	Continuous member	-6.68	-8.04	6.57	-8.09	-12.14
	CO814	Connected member	-17.27	-4.14	1.08	0	0
265	CO815	Main member	6.25	5.18	-0.12	-8.14	-12.02
	CO815	Connected member	-1.99	-2.58	0.23	0	-1.32
	CO815	Continuous member	-6.75	-7.17	6.57	-8.1	-12.02
265	CO815	Connected member	-16.76	-4.13	1.08	0	0
	CO816	Main member	7	5.22	-0.13	-8.14	-12.16
	CO816	Connected member	-2.81	-2.58	0.24	0	-1.33
265	CO816	Continuous member	-6.67	-8.41	6.56	-8.09	-12.16
	CO816	Connected member	-17.58	-4.14	1.08	0	0
265	CO817	Main member	1.71	0.89	-0.13	-12.44	-4.42
	CO817	Connected member	0.47	-3.98	0.2	0.15	-2.27
	CO817	Continuous member	-4.7	-4.46	10.13	-12.4	-4.57
265	CO817	Connected member	-8.73	-6.3	1.07	0	0
	CO818	Main member	-18.82	-5.14	-0.18	4.85	7.99
	CO818	Connected member	5.43	1.53	0.27	0.03	0.87
265	CO818	Continuous member	-12.04	3.46	-4.22	4.85	7.96
	CO818	Connected member	7.16	2.49	1.06	0	0
265	CO819	Main member	-21.59	-5.17	-0.2	4.78	8.06
	CO819	Connected member	5.92	1.54	0.27	0.03	0.88
	CO819	Continuous member	-14.67	4.01	-4.24	4.78	8.03
265	CO819	Connected member	7.33	2.49	1.06	0	0
	CO820	Main member	-19.82	-5.17	-0.2	4.78	8.09
	CO820	Connected member	5.8	1.53	0.27	0.03	0.87
265	CO820	Continuous member	-12.68	4.04	-4.23	4.77	8.06
	CO820	Connected member	7.6	2.49	1.06	0	0
265	CO821	Main member	-22.25	-5.12	-0.19	4.87	7.92
	CO821	Connected member	5.57	1.54	0.27	0.03	0.88
	CO821	Continuous member	-16.05	3.22	-4.23	4.86	7.89
265	CO821	Connected member	6.46	2.5	1.06	0	0
	CO822	Main member	6.13	5.21	-0.13	-8.27	-12.11
	CO822	Connected member	-2.1	-2.58	0.23	0	-1.33
265	CO822	Continuous member	-6.84	-7.23	6.55	-8.22	-12.11
	CO822	Connected member	-16.72	-4.13	1.08	0	0
	CO823	Main member	5.83	5.21	-0.13	-8.14	-12.15
265	CO823	Connected member	-2.54	-2.58	0.23	0	-1.32
	CO823	Continuous member	-7.68	-8.04	6.56	-8.09	-12.15
	CO823	Connected member	-17.39	-4.14	1.08	0	0
265	CO824	Main member	5.35	5.18	-0.12	-8.14	-12.03
	CO824	Connected member	-1.92	-2.58	0.23	0	-1.32
	CO824	Continuous member	-7.75	-7.17	6.57	-8.1	-12.03
265	CO824	Connected member	-16.88	-4.13	1.08	0	0
	CO825	Main member	6.1	5.22	-0.14	-8.14	-12.17
	CO825	Connected member	-2.74	-2.58	0.24	0	-1.32
265	CO825	Continuous member	-7.67	-8.41	6.55	-8.09	-12.17
	CO825	Connected member	-17.7	-4.14	1.08	0	0
265	CO826	Main member	0.81	0.89	-0.13	-12.44	-4.43
	CO826	Connected member	0.54	-3.98	0.2	0.15	-2.27
	CO826	Continuous member	-5.7	-4.47	10.13	-12.4	-4.58
265	CO826	Connected member	-8.85	-6.3	1.07	0	0
	CO827	Main member	-19.72	-5.14	-0.18	4.85	7.98
	CO827	Connected member	5.5	1.54	0.27	0.03	0.87
265	CO827	Continuous member	-13.04	3.45	-4.22	4.85	7.95
	CO827	Connected member	7.03	2.49	1.06	0	0
265	CO828	Main member	-22.48	-5.17	-0.21	4.78	8.05
	CO828	Connected member	5.99	1.54	0.27	0.03	0.88
	CO828	Continuous member	-15.68	4.01	-4.25	4.78	8.02
265	CO828	Connected member	7.19	2.49	1.06	0	0
	CO829	Main member	-28.3	-8.58	-0.25	8.08	13.51
	CO829	Connected member	8.95	2.55	0.2	0.25	1.45
265	CO829	Continuous member	-17.22	6.53	-6.96	8.07	13.26
	CO829	Connected member	12.46	4.14	1.05	0	0
265	CO830	Main member	-32.34	-8.49	-0.24	8.23	13.22
	CO830	Connected member	8.57	2.56	0.2	0.25	1.47
	CO830	Continuous member	-22.83	5.17	-6.97	8.22	12.97
265	CO830	Connected member	10.56	4.15	1.06	0	0
	CO831	Main member	14.89	8.69	-0.16	-13.7	-20.06
	CO831	Connected member	-4.17	-4.31	0.14	0.2	-2.22
265	CO831	Continuous member	-7.46	-12.18	11.03	-13.62	-20.25
	CO831	Connected member	-27.97	-6.96	1.08	0	0
265	CO832	Main member	14.35	8.67	-0.15	-13.48	-20.06
	CO832	Connected member	-4.89	-4.31	0.15	0.19	-2.22
	CO832	Continuous member	-8.85	-13.5	11.05	-13.41	-20.25
265	CO832	Connected member	-29	-6.97	1.09	0	0
	CO833	Main member	13.54	8.63	-0.14	-13.49	-19.87
	CO833	Connected member	-3.88	-4.31	0.14	0.19	-2.21
265	CO833	Continuous member	-8.96	-12.05	11.05	-13.42	-20.06
	CO833	Connected member	-28.16	-6.96	1.08	0	0
265	CO834	Main member	14.75	8.67	-0.17	-13.49	-20.04
	CO834	Connected member	-5.22	-4.31	0.15	0.18	-2.22
	CO834	Continuous member	-8.81	-14.08	11.04	-13.41	-20.23
265	CO834	Connected member	-29.44	-6.97	1.09	0	0
	CO835	Main member	5.98	1.48	-0.15	-20.63	-7.19
	CO835	Connected member	0.22	-6.63	0.1	0.44	-3.79
265	CO835	Continuous member	-5.54	-7.53	16.98	-20.57	-7.63
	CO835	Connected member	-14.75	-10.56	1.06	0	0
	CO836	Main member	-28.12	-8.52	-0.22	8.2	13.33
265	CO836	Connected member	8.44	2.56	0.2	0.25	1.45
	CO836	Continuous member	-17.82	5.55	-6.94	8.2	13.07
265	CO836	Connected member	11.52	4.14	1.06	0	0



::LAVteam::

Page: 225/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO837	Main member	-32.73	-8.57	-0.26	8.08	13.45
	CO837	Connected member	9.27	2.56	0.2	0.25	1.47
	CO837	Continuous member	-22.21	6.48	-6.99	8.08	13.2
	CO837	Connected member	11.79	4.14	1.06	0	0
265	CO838	Main member	-28.45	-8.6	-0.25	8.02	13.54
	CO838	Connected member	8.97	2.55	0.2	0.25	1.45
	CO838	Continuous member	-17.34	6.55	-6.97	8.01	13.29
	CO838	Connected member	12.49	4.14	1.05	0	0
265	CO839	Main member	-32.49	-8.51	-0.24	8.17	13.25
	CO839	Connected member	8.59	2.56	0.2	0.25	1.46
	CO839	Continuous member	-22.96	5.19	-6.97	8.17	13
	CO839	Connected member	10.58	4.15	1.06	0	0
265	CO840	Main member	14.8	8.7	-0.16	-13.75	-20.09
	CO840	Connected member	-4.17	-4.31	0.14	0.2	-2.22
	CO840	Continuous member	-7.6	-12.19	11.03	-13.68	-20.29
	CO840	Connected member	-28.03	-6.96	1.08	0	0
265	CO841	Main member	14.26	8.68	-0.15	-13.54	-20.1
	CO841	Connected member	-4.88	-4.31	0.15	0.2	-2.22
	CO841	Continuous member	-8.99	-13.51	11.05	-13.46	-20.29
	CO841	Connected member	-29.06	-6.97	1.09	0	0
265	CO842	Main member	13.45	8.63	-0.14	-13.55	-19.91
	CO842	Connected member	-3.87	-4.31	0.14	0.19	-2.21
	CO842	Continuous member	-9.1	-12.07	11.05	-13.48	-20.1
	CO842	Connected member	-28.22	-6.96	1.08	0	0
265	CO843	Main member	14.66	8.68	-0.17	-13.54	-20.08
	CO843	Connected member	-5.21	-4.31	0.15	0.19	-2.22
	CO843	Continuous member	-8.95	-14.09	11.03	-13.47	-20.27
	CO843	Connected member	-29.5	-6.97	1.09	0	0
265	CO844	Main member	5.87	1.48	-0.15	-20.69	-7.21
	CO844	Connected member	0.24	-6.63	0.09	0.44	-3.79
	CO844	Continuous member	-5.67	-7.53	16.98	-20.62	-7.65
	CO844	Connected member	-14.78	-10.56	1.06	0	0
265	CO845	Main member	-28.27	-8.54	-0.23	8.15	13.36
	CO845	Connected member	8.47	2.55	0.2	0.25	1.45
	CO845	Continuous member	-17.94	5.58	-6.95	8.14	13.11
	CO845	Connected member	11.54	4.14	1.06	0	0
265	CO846	Main member	-32.88	-8.59	-0.27	8.03	13.48
	CO846	Connected member	9.29	2.56	0.2	0.25	1.46
	CO846	Continuous member	-22.33	6.51	-6.99	8.02	13.23
	CO846	Connected member	11.82	4.14	1.06	0	0
265	CO847	Main member	-28.46	-8.61	-0.25	8.01	13.55
	CO847	Connected member	8.98	2.55	0.2	0.25	1.45
	CO847	Continuous member	-17.35	6.56	-6.97	8	13.3
	CO847	Connected member	12.5	4.14	1.05	0	0
265	CO848	Main member	-32.5	-8.52	-0.24	8.16	13.26
	CO848	Connected member	8.6	2.56	0.2	0.25	1.46
	CO848	Continuous member	-22.96	5.19	-6.97	8.15	13.01
	CO848	Connected member	10.59	4.15	1.06	0	0
265	CO849	Main member	14.81	8.7	-0.16	-13.77	-20.1
	CO849	Connected member	-4.17	-4.31	0.14	0.2	-2.22
	CO849	Continuous member	-7.6	-12.2	11.03	-13.69	-20.3
	CO849	Connected member	-28.04	-6.96	1.08	0	0
265	CO850	Main member	14.26	8.68	-0.15	-13.55	-20.11
	CO850	Connected member	-4.88	-4.31	0.15	0.2	-2.22
	CO850	Continuous member	-8.99	-13.52	11.05	-13.48	-20.3
	CO850	Connected member	-29.07	-6.97	1.09	0	0
265	CO851	Main member	13.46	8.64	-0.14	-13.57	-19.92
	CO851	Connected member	-3.87	-4.31	0.14	0.19	-2.21
	CO851	Continuous member	-9.1	-12.07	11.05	-13.49	-20.11
	CO851	Connected member	-28.23	-6.96	1.08	0	0
265	CO852	Main member	14.66	8.68	-0.17	-13.56	-20.09
	CO852	Connected member	-5.21	-4.31	0.15	0.19	-2.23
	CO852	Continuous member	-8.95	-14.1	11.03	-13.48	-20.28
	CO852	Connected member	-29.51	-6.97	1.09	0	0
265	CO853	Main member	5.87	1.48	-0.15	-20.7	-7.21
	CO853	Connected member	0.24	-6.63	0.09	0.44	-3.79
	CO853	Continuous member	-5.67	-7.54	16.98	-20.64	-7.65
	CO853	Connected member	-14.78	-10.56	1.06	0	0
265	CO854	Main member	-28.28	-8.54	-0.23	8.13	13.37
	CO854	Connected member	8.47	2.55	0.2	0.25	1.44
	CO854	Continuous member	-17.95	5.58	-6.95	8.12	13.12
	CO854	Connected member	11.56	4.14	1.06	0	0
265	CO855	Main member	-32.89	-8.59	-0.27	8.01	13.49
	CO855	Connected member	9.29	2.56	0.2	0.25	1.46
	CO855	Continuous member	-22.33	6.51	-6.99	8.01	13.24
	CO855	Connected member	11.83	4.14	1.06	0	0
265	CO856	Main member	-28.31	-8.59	-0.25	8.06	13.52
	CO856	Connected member	8.95	2.55	0.2	0.25	1.45
	CO856	Continuous member	-17.22	6.54	-6.96	8.05	13.27
	CO856	Connected member	12.48	4.14	1.05	0	0
265	CO857	Main member	-32.35	-8.5	-0.24	8.22	13.23
	CO857	Connected member	8.58	2.56	0.2	0.25	1.47
	CO857	Continuous member	-22.84	5.17	-6.97	8.21	12.98
	CO857	Connected member	10.57	4.15	1.06	0	0
265	CO858	Main member	14.89	8.69	-0.16	-13.71	-20.07
	CO858	Connected member	-4.17	-4.31	0.14	0.2	-2.22
	CO858	Continuous member	-7.46	-12.18	11.03	-13.64	-20.26
	CO858	Connected member	-27.98	-6.96	1.08	0	0
265	CO859	Main member	14.35	8.67	-0.15	-13.5	-20.07
	CO859	Connected member	-4.89	-4.31	0.15	0.19	-2.22
	CO859	Continuous member	-8.85	-13.5	11.05	-13.42	-20.26
	CO859	Connected member	-29.01	-6.97	1.09	0	0
265	CO860	Main member	13.55	8.63	-0.14	-13.51	-19.88
	CO860	Connected member	-3.88	-4.31	0.14	0.19	-2.21



::LAV/team::

Page: 226/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO860	Continuous member	-8.96	-12.06	11.05	-13.43	-20.07
	CO860	Connected member	-28.17	-6.96	1.08	0	0
	CO861	Main member	14.75	8.67	-0.17	-13.5	-20.05
265	CO861	Connected member	-5.22	-4.31	0.15	0.19	-2.22
	CO861	Continuous member	-8.81	-14.08	11.03	-13.43	-20.24
	CO861	Connected member	-29.45	-6.97	1.09	0	0
265	CO862	Main member	5.98	1.48	-0.15	-20.65	-7.2
	CO862	Connected member	0.23	-6.63	0.1	0.44	-3.79
	CO862	Continuous member	-5.54	-7.53	16.98	-20.58	-7.64
265	CO862	Connected member	-14.75	-10.56	1.06	0	0
	CO863	Main member	-28.13	-8.53	-0.22	8.19	13.34
	CO863	Connected member	8.45	2.56	0.2	0.25	1.45
265	CO863	Continuous member	-17.82	5.56	-6.94	8.18	13.08
	CO863	Connected member	11.53	4.14	1.06	0	0
265	CO864	Main member	-32.74	-8.57	-0.26	8.07	13.46
	CO864	Connected member	9.27	2.56	0.2	0.25	1.47
	CO864	Continuous member	-22.21	6.49	-6.99	8.06	13.21
265	CO864	Connected member	11.8	4.14	1.06	0	0
	CO865	Main member	-28.47	-8.61	-0.25	8	13.56
	CO865	Connected member	8.98	2.55	0.2	0.25	1.45
265	CO865	Continuous member	-17.35	6.57	-6.97	7.99	13.31
	CO865	Connected member	12.51	4.14	1.05	0	0
	CO866	Main member	-32.51	-8.52	-0.24	8.15	13.27
265	CO866	Connected member	8.6	2.56	0.2	0.25	1.46
	CO866	Continuous member	-22.96	5.2	-6.97	8.14	13.01
	CO866	Connected member	10.6	4.15	1.06	0	0
265	CO867	Main member	14.81	8.7	-0.16	-13.78	-20.11
	CO867	Connected member	-4.17	-4.31	0.14	0.2	-2.22
	CO867	Continuous member	-7.6	-12.2	11.03	-13.7	-20.31
265	CO867	Connected member	-28.05	-6.96	1.08	0	0
	CO868	Main member	14.27	8.68	-0.15	-13.56	-20.11
	CO868	Connected member	-4.88	-4.31	0.15	0.2	-2.22
265	CO868	Continuous member	-8.99	-13.52	11.05	-13.49	-20.31
	CO868	Connected member	-29.08	-6.97	1.09	0	0
265	CO869	Main member	13.46	8.64	-0.14	-13.58	-19.93
	CO869	Connected member	-3.87	-4.31	0.14	0.19	-2.21
	CO869	Continuous member	-9.11	-12.08	11.05	-13.5	-20.12
265	CO869	Connected member	-28.23	-6.96	1.08	0	0
	CO870	Main member	14.67	8.68	-0.17	-13.57	-20.09
	CO870	Connected member	-5.21	-4.31	0.15	0.19	-2.23
265	CO870	Continuous member	-8.95	-14.1	11.03	-13.49	-20.28
	CO870	Connected member	-29.52	-6.97	1.09	0	0
265	CO871	Main member	5.87	1.48	-0.15	-20.71	-7.21
	CO871	Connected member	0.24	-6.63	0.09	0.44	-3.79
	CO871	Continuous member	-5.67	-7.54	16.98	-20.65	-7.66
265	CO871	Connected member	-14.79	-10.56	1.06	0	0
	CO872	Main member	-28.28	-8.55	-0.23	8.12	13.37
	CO872	Connected member	8.47	2.55	0.2	0.25	1.44
265	CO872	Continuous member	-17.95	5.59	-6.95	8.11	13.12
	CO872	Connected member	11.56	4.14	1.06	0	0
265	CO873	Main member	-32.9	-8.6	-0.27	8	13.5
	CO873	Connected member	9.3	2.56	0.2	0.25	1.46
	CO873	Continuous member	-22.33	6.52	-6.99	7.99	13.25
265	CO873	Connected member	11.84	4.14	1.06	0	0
	CO874	Main member	-28.91	-8.61	-0.26	8	13.55
	CO874	Connected member	9.01	2.55	0.2	0.25	1.45
265	CO874	Continuous member	-17.85	6.56	-6.97	7.99	13.3
	CO874	Connected member	12.45	4.14	1.05	0	0
265	CO875	Main member	-32.96	-8.52	-0.25	8.15	13.26
	CO875	Connected member	8.63	2.56	0.2	0.25	1.46
	CO875	Continuous member	-23.47	5.19	-6.97	8.14	13.01
265	CO875	Connected member	10.54	4.15	1.06	0	0
	CO876	Main member	14.36	8.7	-0.17	-13.78	-20.11
	CO876	Connected member	-4.13	-4.31	0.14	0.2	-2.22
265	CO876	Continuous member	-8.1	-12.2	11.03	-13.71	-20.31
	CO876	Connected member	-28.1	-6.96	1.08	0	0
265	CO877	Main member	13.82	8.68	-0.15	-13.56	-20.12
	CO877	Connected member	-4.85	-4.31	0.15	0.2	-2.22
	CO877	Continuous member	-9.49	-13.52	11.05	-13.49	-20.31
265	CO877	Connected member	-29.14	-6.97	1.09	0	0
	CO878	Main member	13.01	8.64	-0.14	-13.58	-19.93
	CO878	Connected member	-3.84	-4.31	0.14	0.19	-2.21
265	CO878	Continuous member	-9.6	-12.08	11.05	-13.5	-20.12
	CO878	Connected member	-28.29	-6.96	1.08	0	0
265	CO879	Main member	14.22	8.68	-0.17	-13.57	-20.1
	CO879	Connected member	-5.18	-4.31	0.15	0.19	-2.22
	CO879	Continuous member	-9.45	-14.1	11.03	-13.5	-20.29
265	CO879	Connected member	-29.58	-6.97	1.09	0	0
	CO880	Main member	5.42	1.48	-0.15	-20.72	-7.22
	CO880	Connected member	0.27	-6.63	0.09	0.44	-3.79
265	CO880	Continuous member	-6.17	-7.54	16.98	-20.65	-7.66
	CO880	Connected member	-14.85	-10.56	1.06	0	0
265	CO881	Main member	-28.73	-8.55	-0.23	8.12	13.37
	CO881	Connected member	8.51	2.55	0.2	0.25	1.45
	CO881	Continuous member	-18.45	5.58	-6.95	8.11	13.12
265	CO881	Connected member	11.5	4.14	1.06	0	0
	CO882	Main member	-33.35	-8.59	-0.27	8	13.49
	CO882	Connected member	9.33	2.56	0.2	0.25	1.46
265	CO882	Continuous member	-22.84	6.51	-7	8	13.24
	CO882	Connected member	11.77	4.14	1.06	0	0
265	CO883	Main member	-28.48	-8.62	-0.26	7.98	13.57
	CO883	Connected member	8.98	2.55	0.2	0.25	1.44
	CO883	Continuous member	-17.35	6.57	-6.97	7.97	13.32
265	CO883	Connected member	12.53	4.14	1.05	0	0



::LAV/team::

Page: 227/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO884	Main member	-32.52	-8.53	-0.25	8.13	13.28
	CO884	Connected member	8.61	2.56	0.2	0.25	1.46
	CO884	Continuous member	-22.97	5.2	-6.97	8.13	13.02
	CO884	Connected member	10.61	4.15	1.06	0	0
265	CO885	Main member	14.82	8.7	-0.17	-13.79	-20.12
	CO885	Connected member	-4.17	-4.31	0.14	0.2	-2.22
	CO885	Continuous member	-7.61	-12.21	11.03	-13.72	-20.32
	CO885	Connected member	-28.06	-6.96	1.08	0	0
265	CO886	Main member	14.27	8.68	-0.15	-13.58	-20.12
	CO886	Connected member	-4.88	-4.31	0.14	0.2	-2.22
	CO886	Continuous member	-9	-13.53	11.05	-13.5	-20.32
	CO886	Connected member	-29.09	-6.97	1.09	0	0
265	CO887	Main member	13.47	8.64	-0.14	-13.59	-19.93
	CO887	Connected member	-3.87	-4.31	0.14	0.2	-2.21
	CO887	Continuous member	-9.11	-12.08	11.05	-13.52	-20.13
	CO887	Connected member	-28.25	-6.96	1.08	0	0
265	CO888	Main member	14.67	8.68	-0.17	-13.58	-20.1
	CO888	Connected member	-5.21	-4.31	0.15	0.19	-2.23
	CO888	Continuous member	-8.96	-14.11	11.03	-13.51	-20.3
	CO888	Connected member	-29.53	-6.97	1.09	0	0
265	CO889	Main member	5.87	1.48	-0.15	-20.73	-7.22
	CO889	Connected member	0.24	-6.63	0.09	0.45	-3.79
	CO889	Continuous member	-5.68	-7.54	16.98	-20.66	-7.66
	CO889	Connected member	-14.79	-10.56	1.06	0	0
265	CO890	Main member	-28.29	-8.55	-0.23	8.11	13.38
	CO890	Connected member	8.48	2.55	0.2	0.25	1.44
	CO890	Continuous member	-17.95	5.59	-6.95	8.1	13.13
	CO890	Connected member	11.58	4.14	1.06	0	0
265	CO891	Main member	-32.91	-8.6	-0.27	7.99	13.51
	CO891	Connected member	9.3	2.56	0.2	0.25	1.46
	CO891	Continuous member	-22.34	6.52	-6.99	7.98	13.26
	CO891	Connected member	11.85	4.14	1.06	0	0
265	CO892	Main member	-28.92	-8.61	-0.26	7.98	13.56
	CO892	Connected member	9.02	2.55	0.2	0.25	1.45
	CO892	Continuous member	-17.85	6.57	-6.97	7.97	13.31
	CO892	Connected member	12.46	4.14	1.05	0	0
265	CO893	Main member	-32.97	-8.52	-0.25	8.13	13.27
	CO893	Connected member	8.64	2.56	0.2	0.25	1.46
	CO893	Continuous member	-23.47	5.2	-6.98	8.13	13.02
	CO893	Connected member	10.55	4.15	1.06	0	0
265	CO894	Main member	14.37	8.7	-0.17	-13.79	-20.12
	CO894	Connected member	-4.13	-4.31	0.14	0.2	-2.22
	CO894	Continuous member	-8.11	-12.21	11.03	-13.72	-20.32
	CO894	Connected member	-28.12	-6.96	1.08	0	0
265	CO895	Main member	13.82	8.68	-0.16	-13.58	-20.13
	CO895	Connected member	-4.85	-4.31	0.14	0.2	-2.22
	CO895	Continuous member	-9.5	-13.53	11.05	-13.5	-20.32
	CO895	Connected member	-29.15	-6.97	1.09	0	0
265	CO896	Main member	13.02	8.64	-0.15	-13.59	-19.94
	CO896	Connected member	-3.84	-4.31	0.14	0.2	-2.21
	CO896	Continuous member	-9.61	-12.08	11.05	-13.52	-20.13
	CO896	Connected member	-28.3	-6.96	1.08	0	0
265	CO897	Main member	14.22	8.68	-0.17	-13.58	-20.11
	CO897	Connected member	-5.18	-4.31	0.15	0.19	-2.22
	CO897	Continuous member	-9.46	-14.11	11.03	-13.51	-20.3
	CO897	Connected member	-29.59	-6.97	1.09	0	0
265	CO898	Main member	5.43	1.48	-0.15	-20.73	-7.22
	CO898	Connected member	0.28	-6.63	0.09	0.45	-3.79
	CO898	Continuous member	-6.18	-7.54	16.98	-20.66	-7.66
	CO898	Connected member	-14.85	-10.57	1.06	0	0
265	CO899	Main member	-28.74	-8.55	-0.23	8.11	13.38
	CO899	Connected member	8.51	2.55	0.2	0.25	1.44
	CO899	Continuous member	-18.45	5.59	-6.95	8.1	13.12
	CO899	Connected member	11.51	4.14	1.06	0	0
265	CO900	Main member	-33.36	-8.6	-0.27	7.99	13.5
	CO900	Connected member	9.33	2.56	0.2	0.25	1.46
	CO900	Continuous member	-22.84	6.52	-7	7.98	13.25
	CO900	Connected member	11.79	4.14	1.06	0	0
265	CO901	Main member	-28.33	-8.6	-0.25	8.04	13.54
	CO901	Connected member	8.96	2.55	0.2	0.25	1.45
	CO901	Continuous member	-17.22	6.55	-6.96	8.03	13.29
	CO901	Connected member	12.5	4.14	1.05	0	0
265	CO902	Main member	-32.37	-8.51	-0.24	8.19	13.24
	CO902	Connected member	8.58	2.56	0.2	0.25	1.47
	CO902	Continuous member	-22.84	5.18	-6.97	8.18	12.99
	CO902	Connected member	10.59	4.15	1.06	0	0
265	CO903	Main member	14.9	8.7	-0.16	-13.74	-20.08
	CO903	Connected member	-4.18	-4.31	0.14	0.2	-2.22
	CO903	Continuous member	-7.47	-12.19	11.03	-13.66	-20.28
	CO903	Connected member	-28	-6.96	1.08	0	0
265	CO904	Main member	14.36	8.67	-0.15	-13.52	-20.09
	CO904	Connected member	-4.89	-4.31	0.15	0.19	-2.22
	CO904	Continuous member	-8.86	-13.51	11.05	-13.45	-20.28
	CO904	Connected member	-29.03	-6.97	1.09	0	0
265	CO905	Main member	13.56	8.63	-0.14	-13.53	-19.9
	CO905	Connected member	-3.88	-4.31	0.14	0.19	-2.21
	CO905	Continuous member	-8.97	-12.06	11.05	-13.46	-20.09
	CO905	Connected member	-28.19	-6.96	1.08	0	0
265	CO906	Main member	14.76	8.67	-0.17	-13.53	-20.07
	CO906	Connected member	-5.22	-4.31	0.15	0.19	-2.22
	CO906	Continuous member	-8.82	-14.09	11.03	-13.45	-20.26
	CO906	Connected member	-29.47	-6.97	1.09	0	0
265	CO907	Main member	5.98	1.48	-0.15	-20.67	-7.2
	CO907	Connected member	0.23	-6.63	0.09	0.44	-3.79



::LAV/team::

Page: 228/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO907	Continuous member	-5.55	-7.53	16.98	-20.61	-7.64
	CO907	Connected member	-14.76	-10.56	1.06	0	0
	CO908	Main member	-28.15	-8.53	-0.23	8.16	13.35
265	CO908	Connected member	8.45	2.55	0.2	0.25	1.45
	CO908	Continuous member	-17.82	5.57	-6.94	8.15	13.1
	CO908	Connected member	11.55	4.14	1.06	0	0
265	CO909	Main member	-32.76	-8.58	-0.27	8.04	13.48
	CO909	Connected member	9.28	2.56	0.2	0.25	1.47
	CO909	Continuous member	-22.21	6.5	-6.99	8.04	13.23
265	CO909	Connected member	11.82	4.14	1.06	0	0
	CO910	Main member	-28.78	-8.6	-0.25	8.04	13.53
	CO910	Connected member	8.99	2.55	0.2	0.25	1.45
265	CO910	Continuous member	-17.72	6.55	-6.97	8.03	13.28
	CO910	Connected member	12.43	4.14	1.05	0	0
265	CO911	Main member	-32.82	-8.51	-0.24	8.19	13.24
	CO911	Connected member	8.61	2.56	0.2	0.25	1.47
	CO911	Continuous member	-23.34	5.18	-6.97	8.18	12.99
265	CO911	Connected member	10.52	4.15	1.06	0	0
	CO912	Main member	14.45	8.69	-0.16	-13.74	-20.08
	CO912	Connected member	-4.14	-4.31	0.14	0.2	-2.22
265	CO912	Continuous member	-7.97	-12.19	11.03	-13.66	-20.28
	CO912	Connected member	-28.06	-6.96	1.08	0	0
265	CO913	Main member	13.91	8.67	-0.15	-13.52	-20.09
	CO913	Connected member	-4.85	-4.31	0.15	0.19	-2.22
	CO913	Continuous member	-9.36	-13.51	11.05	-13.45	-20.28
265	CO913	Connected member	-29.09	-6.97	1.09	0	0
	CO914	Main member	13.11	8.63	-0.14	-13.54	-19.9
	CO914	Connected member	-3.84	-4.31	0.14	0.19	-2.21
265	CO914	Continuous member	-9.47	-12.06	11.05	-13.46	-20.09
	CO914	Connected member	-28.25	-6.96	1.08	0	0
265	CO915	Main member	14.31	8.67	-0.17	-13.53	-20.07
	CO915	Connected member	-5.19	-4.31	0.15	0.19	-2.22
	CO915	Continuous member	-9.32	-14.09	11.03	-13.45	-20.26
265	CO915	Connected member	-29.53	-6.97	1.09	0	0
	CO916	Main member	5.53	1.48	-0.15	-20.68	-7.2
	CO916	Connected member	0.26	-6.63	0.09	0.44	-3.79
265	CO916	Continuous member	-6.04	-7.53	16.98	-20.61	-7.65
	CO916	Connected member	-14.82	-10.56	1.06	0	0
265	CO917	Main member	-28.59	-8.53	-0.23	8.16	13.34
	CO917	Connected member	8.49	2.56	0.2	0.25	1.45
	CO917	Continuous member	-18.32	5.57	-6.95	8.16	13.09
265	CO917	Connected member	11.48	4.14	1.06	0	0
	CO918	Main member	-33.21	-8.58	-0.27	8.04	13.47
	CO918	Connected member	9.31	2.56	0.2	0.25	1.47
265	CO918	Continuous member	-22.71	6.5	-6.99	8.04	13.22
	CO918	Connected member	11.76	4.14	1.06	0	0
265	CO919	Main member	-28.32	-8.59	-0.25	8.05	13.53
	CO919	Connected member	8.96	2.55	0.2	0.25	1.45
	CO919	Continuous member	-17.22	6.54	-6.96	8.04	13.28
265	CO919	Connected member	12.48	4.14	1.05	0	0
	CO920	Main member	-32.36	-8.5	-0.24	8.21	13.23
	CO920	Connected member	8.58	2.56	0.2	0.25	1.47
265	CO920	Continuous member	-22.84	5.18	-6.97	8.2	12.98
	CO920	Connected member	10.57	4.15	1.06	0	0
265	CO921	Main member	14.9	8.69	-0.16	-13.72	-20.07
	CO921	Connected member	-4.18	-4.31	0.14	0.2	-2.22
	CO921	Continuous member	-7.47	-12.18	11.03	-13.65	-20.27
265	CO921	Connected member	-27.99	-6.96	1.08	0	0
	CO922	Main member	14.36	8.67	-0.15	-13.51	-20.08
	CO922	Connected member	-4.89	-4.31	0.15	0.19	-2.22
265	CO922	Continuous member	-8.85	-13.5	11.05	-13.43	-20.27
	CO922	Connected member	-29.02	-6.97	1.09	0	0
265	CO923	Main member	13.55	8.63	-0.14	-13.52	-19.89
	CO923	Connected member	-3.88	-4.31	0.14	0.19	-2.21
	CO923	Continuous member	-8.97	-12.06	11.05	-13.45	-20.08
265	CO923	Connected member	-28.18	-6.96	1.08	0	0
	CO924	Main member	14.76	8.67	-0.17	-13.51	-20.06
	CO924	Connected member	-5.22	-4.31	0.15	0.19	-2.22
265	CO924	Continuous member	-8.81	-14.08	11.03	-13.44	-20.25
	CO924	Connected member	-29.46	-6.97	1.09	0	0
265	CO925	Main member	5.98	1.48	-0.15	-20.66	-7.2
	CO925	Connected member	0.23	-6.63	0.1	0.44	-3.79
	CO925	Continuous member	-5.54	-7.53	16.98	-20.59	-7.64
265	CO925	Connected member	-14.75	-10.56	1.06	0	0
	CO926	Main member	-28.14	-8.53	-0.22	8.18	13.34
	CO926	Connected member	8.45	2.55	0.2	0.25	1.45
265	CO926	Continuous member	-17.82	5.56	-6.94	8.17	13.09
	CO926	Connected member	11.54	4.14	1.06	0	0
265	CO927	Main member	-32.75	-8.58	-0.27	8.06	13.47
	CO927	Connected member	9.27	2.56	0.2	0.25	1.47
	CO927	Continuous member	-22.21	6.49	-6.99	8.05	13.22
265	CO927	Connected member	11.81	4.14	1.06	0	0
	CO928	Main member	-28.76	-8.59	-0.25	8.05	13.52
	CO928	Connected member	8.99	2.55	0.2	0.25	1.45
265	CO928	Continuous member	-17.72	6.54	-6.97	8.04	13.27
	CO928	Connected member	12.42	4.14	1.05	0	0
265	CO929	Main member	-32.81	-8.5	-0.24	8.21	13.23
	CO929	Connected member	8.61	2.56	0.2	0.25	1.47
	CO929	Continuous member	-23.34	5.17	-6.97	8.2	12.98
265	CO929	Connected member	10.51	4.15	1.06	0	0
	CO930	Main member	14.45	8.69	-0.16	-13.72	-20.07
	CO930	Connected member	-4.14	-4.31	0.14	0.2	-2.22
265	CO930	Continuous member	-7.96	-12.18	11.03	-13.65	-20.27
	CO930	Connected member	-28.05	-6.96	1.08	0	0



::LAV/team::

Page: 229/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO931	Main member	13.91	8.67	-0.15	-13.51	-20.08
	CO931	Connected member	-4.85	-4.31	0.15	0.19	-2.22
	CO931	Continuous member	-9.35	-13.5	11.05	-13.43	-20.27
	CO931	Connected member	-29.08	-6.97	1.09	0	0
265	CO932	Main member	13.1	8.63	-0.14	-13.52	-19.89
	CO932	Connected member	-3.84	-4.31	0.14	0.19	-2.21
	CO932	Continuous member	-9.47	-12.06	11.05	-13.45	-20.08
	CO932	Connected member	-28.24	-6.96	1.08	0	0
265	CO933	Main member	14.31	8.67	-0.17	-13.51	-20.06
	CO933	Connected member	-5.19	-4.31	0.15	0.19	-2.22
	CO933	Continuous member	-9.31	-14.09	11.03	-13.44	-20.25
	CO933	Connected member	-29.52	-6.97	1.09	0	0
265	CO934	Main member	5.53	1.48	-0.15	-20.66	-7.2
	CO934	Connected member	0.26	-6.63	0.1	0.44	-3.79
	CO934	Continuous member	-6.04	-7.53	16.98	-20.59	-7.64
	CO934	Connected member	-14.81	-10.56	1.06	0	0
265	CO935	Main member	-28.58	-8.53	-0.23	8.18	13.34
	CO935	Connected member	8.48	2.56	0.2	0.25	1.45
	CO935	Continuous member	-18.32	5.56	-6.95	8.17	13.08
	CO935	Connected member	11.47	4.14	1.06	0	0
265	CO936	Main member	-33.2	-8.58	-0.27	8.06	13.46
	CO936	Connected member	9.31	2.56	0.2	0.25	1.47
	CO936	Continuous member	-22.71	6.49	-6.99	8.05	13.21
	CO936	Connected member	11.74	4.14	1.06	0	0
265	CO937	Main member	-4.76	-0.01	-0.12	-0.05	-0.11
	CO937	Connected member	0.86	0	0.37	-0.3	0
	CO937	Continuous member	-3.37	0.25	-0.12	-0.05	0.19
	CO937	Connected member	0.51	0	1.07	0	0
265	CO938	Main member	-4.9	-0.02	-0.13	-0.11	-0.09
	CO938	Connected member	0.87	0	0.37	-0.3	-0.01
	CO938	Continuous member	-3.49	0.27	-0.12	-0.11	0.21
	CO938	Connected member	0.52	0	1.07	0	0
265	CO939	Main member	-4.91	-0.02	-0.13	-0.12	-0.08
	CO939	Connected member	0.88	0	0.37	-0.3	-0.01
	CO939	Continuous member	-3.49	0.27	-0.12	-0.12	0.21
	CO939	Connected member	0.53	0	1.07	0	0
265	CO940	Main member	-4.77	-0.01	-0.12	-0.07	-0.1
	CO940	Connected member	0.86	0	0.37	-0.3	0
	CO940	Continuous member	-3.37	0.25	-0.12	-0.06	0.2
	CO940	Connected member	0.52	0	1.07	0	0
265	CO941	Main member	-4.77	-0.01	-0.12	-0.06	-0.1
	CO941	Connected member	0.86	0	0.37	-0.3	0
	CO941	Continuous member	-3.37	0.25	-0.12	-0.06	0.2
	CO941	Connected member	0.51	0	1.07	0	0
265	CO942	Main member	-4.95	-0.01	-0.12	-0.06	-0.1
	CO942	Connected member	0.87	0	0.37	-0.3	0
	CO942	Continuous member	-3.57	0.25	-0.12	-0.06	0.19
	CO942	Connected member	0.49	0	1.07	0	0
265	CO943	Main member	-4.91	-0.02	-0.13	-0.12	-0.08
	CO943	Connected member	0.88	0	0.37	-0.3	-0.01
	CO943	Continuous member	-3.49	0.27	-0.12	-0.12	0.21
	CO943	Connected member	0.53	0	1.07	0	0
265	CO944	Main member	-5.08	-0.02	-0.13	-0.12	-0.09
	CO944	Connected member	0.89	0	0.37	-0.3	-0.01
	CO944	Continuous member	-3.69	0.27	-0.12	-0.12	0.21
	CO944	Connected member	0.5	0	1.07	0	0
265	CO945	Main member	-4.91	-0.02	-0.13	-0.13	-0.08
	CO945	Connected member	0.88	0	0.37	-0.3	-0.01
	CO945	Continuous member	-3.49	0.27	-0.12	-0.13	0.22
	CO945	Connected member	0.54	0	1.07	0	0
265	CO946	Main member	-5.09	-0.02	-0.13	-0.13	-0.08
	CO946	Connected member	0.89	0	0.37	-0.3	-0.01
	CO946	Continuous member	-3.69	0.27	-0.13	-0.13	0.22
	CO946	Connected member	0.51	0	1.07	0	0
265	CO947	Main member	-4.78	-0.02	-0.12	-0.08	-0.1
	CO947	Connected member	0.86	0	0.37	-0.3	0
	CO947	Continuous member	-3.37	0.26	-0.12	-0.08	0.2
	CO947	Connected member	0.52	0	1.07	0	0
265	CO948	Main member	-4.95	-0.01	-0.12	-0.08	-0.1
	CO948	Connected member	0.87	0	0.37	-0.3	0
	CO948	Continuous member	-3.57	0.26	-0.12	-0.07	0.2
	CO948	Connected member	0.5	0	1.07	0	0
265	CO949	Main member	-9.48	-1.73	-0.14	1.58	2.62
	CO949	Connected member	2.48	0.51	0.34	-0.19	0.29
	CO949	Continuous member	-6.14	1.51	-1.49	1.58	2.81
	CO949	Connected member	2.91	0.83	1.07	0	0
265	CO950	Main member	-10.29	-1.72	-0.14	1.6	2.57
	CO950	Connected member	2.41	0.51	0.34	-0.19	0.29
	CO950	Continuous member	-7.26	1.24	-1.49	1.61	2.76
	CO950	Connected member	2.53	0.83	1.07	0	0
265	CO951	Main member	-0.83	1.73	-0.12	-2.77	-4.11
	CO951	Connected member	-0.15	-0.86	0.32	-0.2	-0.44
	CO951	Continuous member	-4.19	-2.24	2.1	-2.75	-3.91
	CO951	Connected member	-5.19	-1.36	1.08	0	0
265	CO952	Main member	-0.92	1.73	-0.11	-2.72	-4.13
	CO952	Connected member	-0.3	-0.86	0.33	-0.2	-0.44
	CO952	Continuous member	-4.47	-2.52	2.11	-2.7	-3.93
	CO952	Connected member	-5.43	-1.36	1.08	0	0
265	CO953	Main member	-1.08	1.72	-0.11	-2.72	-4.09
	CO953	Connected member	-0.1	-0.86	0.32	-0.2	-0.44
	CO953	Continuous member	-4.5	-2.23	2.11	-2.71	-3.89
	CO953	Connected member	-5.26	-1.36	1.08	0	0
265	CO954	Main member	-0.82	1.74	-0.12	-2.72	-4.15
	CO954	Connected member	-0.37	-0.86	0.33	-0.2	-0.44



::LAVteam::

Page: 230/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO954	Continuous member	-4.47	-2.65	2.1	-2.7	-3.95
	CO954	Connected member	-5.55	-1.36	1.08	0	0
	CO955	Main member	-2.59	0.29	-0.12	-4.16	-1.56
265	CO955	Connected member	0.72	-1.33	0.31	-0.15	-0.76
	CO955	Continuous member	-3.82	-1.34	3.3	-4.14	-1.42
	CO955	Connected member	-2.6	-2.09	1.07	0	0
265	CO956	Main member	-9.44	-1.72	-0.14	1.6	2.59
	CO956	Connected member	2.38	0.51	0.34	-0.19	0.29
	CO956	Continuous member	-6.26	1.31	-1.48	1.6	2.78
265	CO956	Connected member	2.72	0.83	1.07	0	0
	CO957	Main member	-10.36	-1.73	-0.14	1.58	2.61
	CO957	Connected member	2.54	0.51	0.34	-0.19	0.29
265	CO957	Continuous member	-7.13	1.5	-1.49	1.58	2.8
	CO957	Connected member	2.77	0.83	1.07	0	0
265	CO958	Main member	-9.62	-1.74	-0.15	1.52	2.64
	CO958	Connected member	2.5	0.51	0.34	-0.19	0.29
	CO958	Continuous member	-6.26	1.53	-1.49	1.52	2.83
265	CO958	Connected member	2.92	0.83	1.07	0	0
	CO959	Main member	-10.43	-1.73	-0.14	1.55	2.59
	CO959	Connected member	2.42	0.51	0.34	-0.19	0.29
265	CO959	Continuous member	-7.39	1.25	-1.49	1.55	2.78
	CO959	Connected member	2.55	0.83	1.07	0	0
265	CO960	Main member	-0.96	1.72	-0.12	-2.82	-4.1
	CO960	Connected member	-0.14	-0.86	0.32	-0.2	-0.45
	CO960	Continuous member	-4.32	-2.24	2.1	-2.8	-3.9
265	CO960	Connected member	-5.19	-1.36	1.08	0	0
	CO961	Main member	-1.05	1.73	-0.12	-2.78	-4.12
	CO961	Connected member	-0.29	-0.86	0.33	-0.2	-0.45
265	CO961	Continuous member	-4.6	-2.51	2.1	-2.76	-3.93
	CO961	Connected member	-5.43	-1.36	1.08	0	0
265	CO962	Main member	-1.21	1.72	-0.12	-2.78	-4.08
	CO962	Connected member	-0.08	-0.86	0.32	-0.2	-0.44
	CO962	Continuous member	-4.62	-2.22	2.1	-2.76	-3.89
265	CO962	Connected member	-5.26	-1.36	1.08	0	0
	CO963	Main member	-0.95	1.73	-0.12	-2.78	-4.14
	CO963	Connected member	-0.36	-0.86	0.33	-0.2	-0.44
265	CO963	Continuous member	-4.6	-2.64	2.1	-2.76	-3.94
	CO963	Connected member	-5.55	-1.36	1.08	0	0
265	CO964	Main member	-2.72	0.29	-0.12	-4.22	-1.55
	CO964	Connected member	0.74	-1.33	0.31	-0.15	-0.76
	CO964	Continuous member	-3.95	-1.33	3.29	-4.2	-1.41
265	CO964	Connected member	-2.59	-2.09	1.07	0	0
	CO965	Main member	-9.58	-1.73	-0.14	1.54	2.61
	CO965	Connected member	2.4	0.51	0.34	-0.19	0.28
265	CO965	Continuous member	-6.38	1.33	-1.49	1.54	2.8
	CO965	Connected member	2.74	0.83	1.07	0	0
265	CO966	Main member	-10.5	-1.74	-0.15	1.52	2.63
	CO966	Connected member	2.56	0.51	0.34	-0.19	0.29
	CO966	Continuous member	-7.26	1.52	-1.5	1.52	2.82
265	CO966	Connected member	2.79	0.83	1.07	0	0
	CO967	Main member	-9.63	-1.74	-0.15	1.5	2.65
	CO967	Connected member	2.5	0.51	0.34	-0.19	0.28
265	CO967	Continuous member	-6.26	1.53	-1.49	1.5	2.84
	CO967	Connected member	2.93	0.83	1.07	0	0
265	CO968	Main member	-10.44	-1.73	-0.15	1.53	2.6
	CO968	Connected member	2.43	0.51	0.34	-0.19	0.29
	CO968	Continuous member	-7.39	1.26	-1.49	1.53	2.78
265	CO968	Connected member	2.56	0.83	1.07	0	0
	CO969	Main member	-0.97	1.72	-0.12	-2.84	-4.1
	CO969	Connected member	-0.14	-0.86	0.32	-0.2	-0.45
265	CO969	Continuous member	-4.32	-2.23	2.1	-2.82	-3.9
	CO969	Connected member	-5.19	-1.36	1.08	0	0
265	CO970	Main member	-1.06	1.73	-0.12	-2.79	-4.12
	CO970	Connected member	-0.29	-0.86	0.33	-0.2	-0.45
	CO970	Continuous member	-4.6	-2.51	2.1	-2.77	-3.92
265	CO970	Connected member	-5.43	-1.36	1.08	0	0
	CO971	Main member	-1.22	1.72	-0.12	-2.8	-4.08
	CO971	Connected member	-0.08	-0.86	0.32	-0.2	-0.44
265	CO971	Continuous member	-4.63	-2.22	2.1	-2.78	-3.88
	CO971	Connected member	-5.26	-1.36	1.08	0	0
265	CO972	Main member	-0.96	1.73	-0.12	-2.79	-4.14
	CO972	Connected member	-0.36	-0.86	0.33	-0.2	-0.45
	CO972	Continuous member	-4.6	-2.64	2.1	-2.78	-3.94
265	CO972	Connected member	-5.55	-1.36	1.08	0	0
	CO973	Main member	-2.73	0.28	-0.12	-4.23	-1.55
	CO973	Connected member	0.74	-1.33	0.31	-0.15	-0.76
265	CO973	Continuous member	-3.95	-1.32	3.29	-4.21	-1.4
	CO973	Connected member	-2.59	-2.09	1.07	0	0
265	CO974	Main member	-9.59	-1.73	-0.14	1.53	2.62
	CO974	Connected member	2.4	0.51	0.34	-0.19	0.28
	CO974	Continuous member	-6.38	1.34	-1.49	1.53	2.8
265	CO974	Connected member	2.75	0.83	1.07	0	0
	CO975	Main member	-10.51	-1.74	-0.15	1.5	2.64
	CO975	Connected member	2.57	0.51	0.34	-0.19	0.29
265	CO975	Continuous member	-7.26	1.52	-1.5	1.5	2.83
	CO975	Connected member	2.8	0.83	1.07	0	0
265	CO976	Main member	-9.49	-1.73	-0.14	1.56	2.63
	CO976	Connected member	2.48	0.51	0.34	-0.19	0.29
	CO976	Continuous member	-6.14	1.51	-1.49	1.56	2.82
265	CO976	Connected member	2.92	0.83	1.07	0	0
	CO977	Main member	-10.3	-1.72	-0.14	1.59	2.58
	CO977	Connected member	2.41	0.51	0.34	-0.19	0.29
265	CO977	Continuous member	-7.26	1.24	-1.49	1.59	2.76
	CO977	Connected member	2.54	0.83	1.07	0	0



::LAV/team::

Page: 231/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
265	CO978	Main member	-0.84	1.73	-0.12	-2.78	-4.1
	CO978	Connected member	-0.15	-0.86	0.32	-0.2	-0.44
	CO978	Continuous member	-4.19	-2.24	2.1	-2.76	-3.9
	CO978	Connected member	-5.19	-1.36	1.08	0	0
265	CO979	Main member	-0.93	1.73	-0.12	-2.74	-4.13
	CO979	Connected member	-0.3	-0.86	0.33	-0.2	-0.44
	CO979	Continuous member	-4.48	-2.52	2.1	-2.72	-3.93
	CO979	Connected member	-5.43	-1.36	1.08	0	0
265	CO980	Main member	-1.09	1.72	-0.11	-2.74	-4.09
	CO980	Connected member	-0.1	-0.86	0.32	-0.2	-0.44
	CO980	Continuous member	-4.5	-2.23	2.11	-2.72	-3.89
	CO980	Connected member	-5.26	-1.36	1.08	0	0
265	CO981	Main member	-0.83	1.74	-0.12	-2.74	-4.15
	CO981	Connected member	-0.37	-0.86	0.33	-0.2	-0.44
	CO981	Continuous member	-4.47	-2.65	2.1	-2.72	-3.95
	CO981	Connected member	-5.55	-1.36	1.08	0	0
265	CO982	Main member	-2.6	0.29	-0.12	-4.17	-1.56
	CO982	Connected member	0.72	-1.33	0.31	-0.15	-0.76
	CO982	Continuous member	-3.82	-1.34	3.3	-4.16	-1.41
	CO982	Connected member	-2.59	-2.09	1.07	0	0
265	CO983	Main member	-9.45	-1.72	-0.14	1.59	2.6
	CO983	Connected member	2.38	0.51	0.34	-0.19	0.29
	CO983	Continuous member	-6.26	1.32	-1.48	1.59	2.78
	CO983	Connected member	2.73	0.83	1.07	0	0
265	CO984	Main member	-10.37	-1.73	-0.15	1.56	2.62
	CO984	Connected member	2.55	0.51	0.34	-0.19	0.29
	CO984	Continuous member	-7.13	1.5	-1.49	1.56	2.81
	CO984	Connected member	2.78	0.83	1.07	0	0
265	CO989	Main member	-4.76	-0.01	-0.12	-0.05	-0.11
	CO989	Connected member	0.86	0	0.37	-0.3	0
	CO989	Continuous member	-3.37	0.25	-0.12	-0.05	0.19
	CO989	Connected member	0.51	0	1.07	0	0
265	CO990	Main member	-4.76	-0.01	-0.12	-0.05	-0.11
	CO990	Connected member	0.86	0	0.37	-0.3	0
	CO990	Continuous member	-3.37	0.25	-0.12	-0.05	0.19
	CO990	Connected member	0.51	0	1.07	0	0
265	CO991	Main member	-4.9	-0.02	-0.13	-0.11	-0.09
	CO991	Connected member	0.87	0	0.37	-0.3	-0.01
	CO991	Continuous member	-3.49	0.27	-0.12	-0.11	0.21
	CO991	Connected member	0.52	0	1.07	0	0
265	CO992	Main member	-4.9	-0.02	-0.13	-0.11	-0.09
	CO992	Connected member	0.87	0	0.37	-0.3	-0.01
	CO992	Continuous member	-3.49	0.27	-0.12	-0.11	0.21
	CO992	Connected member	0.52	0	1.07	0	0
265	CO993	Main member	-4.91	-0.02	-0.13	-0.12	-0.08
	CO993	Connected member	0.88	0	0.37	-0.3	-0.01
	CO993	Continuous member	-3.49	0.27	-0.12	-0.12	0.21
	CO993	Connected member	0.53	0	1.07	0	0
265	CO994	Main member	-4.91	-0.02	-0.13	-0.12	-0.08
	CO994	Connected member	0.88	0	0.37	-0.3	-0.01
	CO994	Continuous member	-3.49	0.27	-0.12	-0.12	0.21
	CO994	Connected member	0.53	0	1.07	0	0
265	CO995	Main member	-4.77	-0.01	-0.12	-0.07	-0.1
	CO995	Connected member	0.86	0	0.37	-0.3	0
	CO995	Continuous member	-3.37	0.25	-0.12	-0.06	0.2
	CO995	Connected member	0.52	0	1.07	0	0
265	CO996	Main member	-4.77	-0.01	-0.12	-0.07	-0.1
	CO996	Connected member	0.86	0	0.37	-0.3	0
	CO996	Continuous member	-3.37	0.25	-0.12	-0.06	0.2
	CO996	Connected member	0.52	0	1.07	0	0

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Basic Geometry of the Joint			
Main member			
Member			
Length	l	7.3	m
Height	h	360	mm
Thickness	t	360	mm
Cross-Sectional Area	A	1296	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	360	mm
Thickness	t	10	mm
Cross-Sectional Area	A	36	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	4	
Number of bolt rows (z-direction)	n _{dz}	2	
Distance between bolt columns	a ₁	60	mm
Distance between bolt rows	a ₂	264	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	-90	mm
Distance between fastener and edge No. 1	a _{4,1}	48	mm
Distance between fastener and edge No. 2	a _{4,2}	48	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	496.6	MN/m
Slip Modulus for ULS	K _u	254.67	MN/m
Polar moment of inertia	I _p	1753.92	cm ²



::LAVteam::

Page: 232/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Rotation Modulus for SLS	C_{ser}	10.89	MNm/rad
Rotation Modulus for ULS	C_u	5.58	MNm/rad
Bolts			
Total number of bolts		8	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	360	mm
Connected Member No. 1			
Member			
Length	l	5	m
Height	h	200	mm
Thickness	t	180	mm
Cross-Sectional Area	A	360	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	96	mm
Thickness	t	10	mm
Cross-Sectional Area	A	9.6	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	4	
Number of bolt rows (z-direction)	n_{dz}	1	
Distance between bolt columns	a_1	60	mm
Distance between bolt rows	a_2	0	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	84	mm
Distance between fastener and edge No. 1	$a_{4,1}$	100	mm
Distance between fastener and edge No. 2	$a_{4,2}$	100	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	71.85	MN/m
Slip Modulus for ULS	K_u	36.85	MN/m
Polar moment of inertia	I_p	180	cm ²
Rotation Modulus for SLS	C_{ser}	0.32	MNm/rad
Rotation Modulus for ULS	C_u	0.17	MNm/rad
Bolts			
Total number of bolts		4	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	180	mm
Connected Member No. 2			
Member			
Length	l	8.85	m
Height	h	300	mm
Thickness	t	340	mm
Cross-Sectional Area	A	1020	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	96	mm
Thickness	t	10	mm
Cross-Sectional Area	A	9.6	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	5	
Number of bolt rows (z-direction)	n_{dz}	1	
Distance between bolt columns	a_1	60	mm
Distance between bolt rows	a_2	0	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	84	mm
Distance between fastener and edge No. 1	$a_{4,1}$	150	mm
Distance between fastener and edge No. 2	$a_{4,2}$	150	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	89.82	MN/m
Slip Modulus for ULS	K_u	46.06	MN/m
Polar moment of inertia	I_p	360	cm ²
Rotation Modulus for SLS	C_{ser}	0.65	MNm/rad
Rotation Modulus for ULS	C_u	0.33	MNm/rad
Bolts			
Total number of bolts		5	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	340	mm

2.1 SUMMARY

Governing Node	Load Case	Check Ratio	Check formula
Main member			
265	CO585	0.23 ≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
265	CO996	OK	6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
265	CO576	0.08 ≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
265	CO259	0.02 ≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
265	CO585	0.06 ≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
265	CO576	0.21 ≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
265	CO576	0.05 ≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to m



::LAVteam::

Page: 233/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
265	CO576	0.05	≤ 1	moment 6033) Bolt group - Connection forces at angle to the grain due to moment
265	CO576	0.11	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
265	CO261	0.09	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
265	CO585	0.04	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
265	CO585	0.04	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
265	CO573	0.10	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
265	CO586	0.04	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
Connected Member No. 1				
265	CO577	0.22	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
265	CO588	0.29	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
265	CO577	0.05	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
265	CO2	0.03	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
265	CO577	0.10	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
265	CO577	0.16	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
265	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
265	CO2	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
265	CO588	0.06	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
265	CO276	0.06	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
265	CO276	0.06	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
265	CO276	0.03	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
265	CO594	0.04	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
265	CO577	0.04	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
Connected Member No. 2				
265	CO273	0.41	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
265	CO585	0.60	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
265	CO585	0.10	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
265	CO1	0.04	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
265	CO1	0.04	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
265	CO1	0.07	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
265	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
265	CO1	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
265	CO273	0.01	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
265	CO259	0.08	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
265	CO259	0.09	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
265	LC15	0.41	≤ 1	6031) Bolt group - Multiple fastener connection acc. to 8.1.2 and 8.5.1.1.(4)
265	LC15	0.41	≤ 1	6032) Bolt group - Bolt force component parallel to grain acc. to 8.1.2 and 8.5.1.1.(4)
265	CO585	0.20	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
265	LC15	0.02	≤ 1	6141) Timber cross-section - Compression in net cross-section acc. to 6.1.4
265	CO259	0.01	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
265	CO259	0.02	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
265	CO303	0.01	≤ 1	6140) Timber cross-section - Tension in net cross-section acc. to 6.1.2

1.1 GENERAL DATA

JOINTS CA7

Settings for		Details
Design Standard	National Annex	EN 1995-1-1:2004-11
Type of connection	Input Data	CEN
Comment		JOINTS - Steel to timber - Bolts
		Import from model

JOINTS
CA7
Design of Joints



::LAV/team::

Page: 234/337

Sheet: 1

JOINTS

Project: Examples

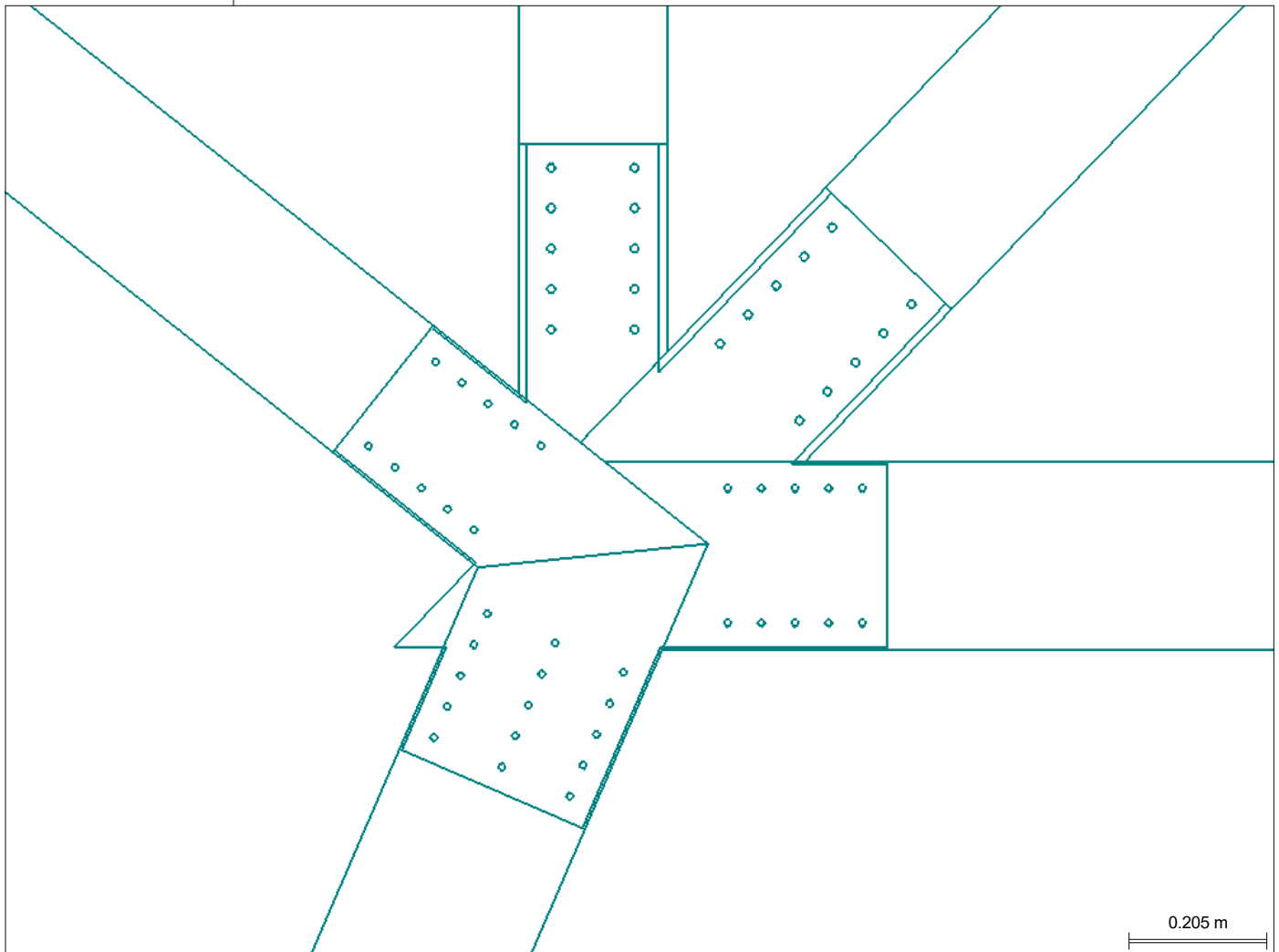
Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

VIEW OF CONNECTION



1.2 NODES AND MEMBERS

Node No.	Member No.	Member Type	Cross-section	Material	Angle [°]
52	92	Main member	T-Rectangle 250/300	Hardwood Timber D70	
	95	Connected member	T-Rectangle 220/240	Glulam Timber GL24h	105.10
	102	Connected member	T-Rectangle 260/280	Glulam Timber GL24h	113.34
	107	Connected member	T-Rectangle 220/220	Glulam Timber GL24h	156.66
	110	Connected member	T-Rectangle 260/260	Glulam Timber GL24h	159.40

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	LC1	Main member	-22.24	0	-1.18	-1.63	0
	LC1	Connected member	-2	0	0.29	-0.11	0.02
	LC1	Connected member	2.28	-0.01	0.84	-1.02	-0.02
	LC1	Connected member	-2.76	0.01	0.01	-0.07	0.01
	LC1	Connected member	-20.14	0	0.56	-0.65	0.01
52	CO1	Main member	-29.9	0	-1.6	-2.21	0.01
	CO1	Connected member	-2.55	0.01	0.39	-0.14	0.02
	CO1	Connected member	3.24	-0.01	1.14	-1.38	-0.02
	CO1	Connected member	-3.72	0.02	0.01	-0.09	0.01
	CO1	Connected member	-27.16	0	0.75	-0.88	0.01
52	LC2	Main member	-16.61	0	-0.04	-0.25	0
	LC2	Connected member	-1.23	0	0.02	-0.06	0
	LC2	Connected member	2.57	0	0.17	-0.32	0
	LC2	Connected member	-3.78	0	-0.06	0.08	0
	LC2	Connected member	-14.56	0	0.03	-0.06	0
52	CO2	Main member	-52.23	0	-1.65	-2.54	0.01
	CO2	Connected member	-4.09	0.01	0.41	-0.22	0.02
	CO2	Connected member	6.83	-0.01	1.37	-1.81	-0.02
	CO2	Connected member	-8.83	0.02	-0.07	0.01	0.01



::LAV/team::

Page: 235/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO2	Connected member	-46.8	0	0.78	-0.96	0.01
	LC3	Main member	-4.52	0	-0.01	-0.07	0
	LC3	Connected member	-0.45	0	0.01	-0.02	0
	LC3	Connected member	0.54	0	0.05	-0.08	0
	LC3	Connected member	-1.03	0	-0.01	0.02	0
52	LC3	Connected member	-3.86	0	0.01	-0.02	0
	CO3	Main member	-58.31	0	-1.66	-2.62	0.01
	CO3	Connected member	-4.66	0.01	0.42	-0.24	0.02
	CO3	Connected member	7.6	-0.01	1.43	-1.92	-0.02
	CO3	Connected member	-10.22	0.02	-0.09	0.04	0.01
52	CO3	Connected member	-52.01	0	0.79	-0.99	0.01
	LC4	Main member	-30.16	0	-0.07	-0.45	0.01
	LC4	Connected member	-2.97	0	0.04	-0.1	0
	LC4	Connected member	3.62	0	0.31	-0.56	0
	LC4	Connected member	-6.9	0	-0.1	0.13	0
52	LC4	Connected member	-25.76	0	0.05	-0.11	0.01
	CO4	Main member	-35.98	0	-1.61	-2.3	0.01
	CO4	Connected member	-3.12	0.01	0.39	-0.16	0.02
	CO4	Connected member	4	-0.01	1.2	-1.49	-0.02
	CO4	Connected member	-5.12	0.02	-0.01	-0.06	0.01
52	CO4	Connected member	-32.37	0	0.76	-0.9	0.01
	LC5	Main member	-15.08	0	-0.04	-0.22	0
	LC5	Connected member	-1.48	0	0.02	-0.05	0
	LC5	Connected member	1.81	0	0.15	-0.28	0
	LC5	Connected member	-3.45	0	-0.05	0.06	0
52	LC5	Connected member	-12.88	0	0.02	-0.06	0
	CO5	Main member	-74.95	0	-1.69	-2.86	0.02
	CO5	Connected member	-6.78	0.01	0.44	-0.29	0.02
	CO5	Connected member	8.91	-0.01	1.59	-2.22	-0.03
	CO5	Connected member	-14.06	0.02	-0.14	0.1	0.02
52	CO5	Connected member	-65.77	0	0.81	-1.05	0.02
	LC6	Main member	32.22	-0.02	-1.13	-2.12	0.11
	LC6	Connected member	22.74	0.11	-1.31	1.98	0.37
	LC6	Connected member	17.46	-0.1	-0.03	0.1	-0.29
	LC6	Connected member	3.16	0.21	-0.17	-0.01	0.3
52	LC6	Connected member	16.35	-0.02	0.12	-0.23	0.02
	CO6	Main member	-97.29	-0.01	-1.73	-3.18	0.02
	CO6	Connected member	-8.34	0.01	0.47	-0.38	0.03
	CO6	Connected member	12.51	-0.01	1.83	-2.64	-0.03
	CO6	Connected member	-19.17	0.02	-0.22	0.21	0.02
52	CO6	Connected member	-85.42	0	0.84	-1.13	0.02
	LC7	Main member	76.06	-0.02	-1.01	-1.39	0.1
	LC7	Connected member	29.94	0.1	-1.34	2.11	0.35
	LC7	Connected member	14.93	-0.09	-0.47	0.95	-0.27
	LC7	Connected member	11.86	0.2	-0.05	-0.16	0.28
52	LC7	Connected member	53.18	-0.02	0.08	-0.07	0.02
	CO7	Main member	-103.37	-0.01	-1.75	-3.27	0.02
	CO7	Connected member	-8.91	0.01	0.47	-0.4	0.03
	CO7	Connected member	13.28	-0.01	1.89	-2.75	-0.03
	CO7	Connected member	-20.57	0.02	-0.24	0.24	0.02
52	CO7	Connected member	-90.63	0	0.85	-1.15	0.02
	LC8	Main member	-0.62	-0.39	1.47	3.45	-0.13
	LC8	Connected member	4.32	-0.85	1.5	-2.14	-1.2
	LC8	Connected member	5.07	-0.25	-0.29	0.73	0.52
	LC8	Connected member	-3.4	-0.64	0.16	0.07	-0.83
52	LC8	Connected member	0.45	-0.36	-0.17	0.51	0.05
	CO8	Main member	-81.03	0	-1.7	-2.95	0.02
	CO8	Connected member	-7.35	0.01	0.45	-0.32	0.02
	CO8	Connected member	9.68	-0.01	1.66	-2.33	-0.03
	CO8	Connected member	-15.46	0.02	-0.16	0.13	0.02
52	CO8	Connected member	-70.99	0	0.82	-1.07	0.02
	LC9	Main member	43.81	-0.38	1.57	4.05	-0.16
	LC9	Connected member	11.69	-0.86	1.45	-2.02	-1.23
	LC9	Connected member	3.52	-0.23	-0.7	1.48	0.55
	LC9	Connected member	6.45	-0.65	0.27	-0.08	-0.86
52	LC9	Connected member	36.35	-0.36	-0.22	0.63	0.03
	CO9	Main member	-108.55	-0.01	-1.75	-3.34	0.02
	CO9	Connected member	-9.4	0.01	0.48	-0.42	0.03
	CO9	Connected member	13.93	-0.01	1.94	-2.85	-0.03
	CO9	Connected member	-21.76	0.02	-0.26	0.26	0.02
52	CO9	Connected member	-95.07	0	0.85	-1.17	0.02
	CO10	Main member	-105.79	-0.01	-1.75	-3.28	0.02
	CO10	Connected member	-7.76	0	0.48	-0.41	0.03
	CO10	Connected member	14.91	-0.01	1.92	-2.79	-0.03
	CO10	Connected member	-21.73	0.02	-0.26	0.26	0.02
52	CO10	Connected member	-93.04	0	0.86	-1.16	0.02
	CO11	Main member	-114.63	-0.01	-1.76	-3.43	0.03
	CO11	Connected member	-9.97	0	0.49	-0.44	0.03
	CO11	Connected member	14.7	-0.01	2.01	-2.96	-0.03
	CO11	Connected member	-23.16	0.02	-0.28	0.29	0.02
52	CO11	Connected member	-100.29	0	0.86	-1.19	0.02
	CO12	Main member	-111.87	-0.01	-1.76	-3.37	0.03
	CO12	Connected member	-8.33	0	0.49	-0.43	0.03
	CO12	Connected member	15.68	-0.01	1.98	-2.9	-0.03
	CO12	Connected member	-23.13	0.02	-0.28	0.29	0.02
52	CO12	Connected member	-98.25	0	0.86	-1.18	0.02
	LC13	Main member	-11.39	0	-0.02	-0.14	0
	LC13	Connected member	0.71	0	0.02	-0.04	0
	LC13	Connected member	3.13	0	0.12	-0.2	0
	LC13	Connected member	-3.42	0	-0.05	0.06	0
52	LC13	Connected member	-10.17	0	0.02	-0.04	0
	CO13	Main member	-92.29	-0.01	-1.73	-3.11	0.02
	CO13	Connected member	-8.42	0.01	0.46	-0.35	0.02
	CO13	Connected member	11.1	-0.01	1.77	-2.54	-0.03



::LAVteam::

Page: 236/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO13	Connected member	-18.05	0.02	-0.2	0.18	0.02
	CO13	Connected member	-80.64	0	0.83	-1.11	0.02
52	LC14	Main member	44.36	-0.39	1.57	4.07	-0.14
	LC14	Connected member	11.65	-0.86	1.46	-2.03	-1.22
52	LC14	Connected member	3.3	-0.24	-0.7	1.49	0.53
	LC14	Connected member	6.55	-0.65	0.27	-0.08	-0.84
52	LC14	Connected member	36.95	-0.36	-0.21	0.62	0.05
	CO14	Main member	-89.53	-0.01	-1.72	-3.05	0.02
52	CO14	Connected member	-6.77	0.01	0.46	-0.35	0.02
	CO14	Connected member	12.08	-0.01	1.75	-2.48	-0.03
52	CO14	Connected member	-18.02	0.02	-0.2	0.18	0.02
	CO14	Connected member	-78.61	0	0.84	-1.1	0.02
52	LC15	Main member	86.2	-0.39	1.68	4.7	-0.13
	LC15	Connected member	16.07	-0.86	1.44	-1.93	-1.24
52	LC15	Connected member	-1.5	-0.23	-1.12	2.26	0.54
	LC15	Connected member	15.95	-0.67	0.39	-0.24	-0.86
52	LC15	Connected member	72.73	-0.35	-0.25	0.74	0.06
	CO15	Main member	-79.3	-0.02	-2.81	-5.36	0.13
52	CO15	Connected member	11.26	0.1	-0.73	1.41	0.36
	CO15	Connected member	29.77	-0.11	1.94	-2.8	-0.28
52	CO15	Connected member	-18.86	0.21	-0.41	0.24	0.3
	CO15	Connected member	-80.27	-0.03	0.97	-1.4	0.03
52	LC16	Main member	82.72	-0.33	2.85	7.38	0.01
	LC16	Connected member	20.96	-0.6	2.64	-3.66	-0.68
52	LC16	Connected member	5.73	-0.29	-1.29	2.73	0.21
	LC16	Connected member	13	-0.34	0.49	-0.15	-0.4
52	LC16	Connected member	68.46	-0.31	-0.39	1.14	0.05
	CO16	Main member	-40.03	-0.02	-2.71	-4.68	0.13
52	CO16	Connected member	17.54	0.1	-0.76	1.52	0.34
	CO16	Connected member	27.28	-0.1	1.53	-2.02	-0.27
52	CO16	Connected member	-11.04	0.2	-0.3	0.11	0.28
	CO16	Connected member	-47.16	-0.02	0.94	-1.26	0.04
52	LC17	Main member	54.78	-0.02	-1.09	-1.86	0.11
	LC17	Connected member	18.29	0.11	-1.34	2.06	0.36
52	LC17	Connected member	8.44	-0.1	-0.27	0.49	-0.28
	LC17	Connected member	11.36	0.21	-0.07	-0.14	0.29
52	LC17	Connected member	37.13	-0.02	0.08	-0.16	0.02
	CO17	Main member	-109.15	-0.41	-0.42	-0.14	-0.11
52	CO17	Connected member	-5.48	-0.78	1.86	-2.39	-1.09
	CO17	Connected member	18.51	-0.23	1.67	-2.16	0.5
52	CO17	Connected member	-24.88	-0.57	-0.11	0.33	-0.73
	CO17	Connected member	-94.65	-0.38	0.71	-0.7	0.01
52	LC18	Main member	52.08	-0.02	-1.05	-1.67	0.1
	LC18	Connected member	34.15	0.11	-1.31	2.02	0.36
52	LC18	Connected member	24	-0.1	-0.21	0.53	-0.28
	LC18	Connected member	3.36	0.21	-0.16	-0.02	0.29
52	LC18	Connected member	31.24	-0.02	0.12	-0.16	0.01
	CO18	Main member	-69.31	-0.37	-0.36	0.35	-0.13
52	CO18	Connected member	0.97	-0.78	1.81	-2.27	-1.11
	CO18	Connected member	16.88	-0.22	1.3	-1.5	0.51
52	CO18	Connected member	-16.01	-0.58	-0.01	0.19	-0.76
	CO18	Connected member	-62.34	-0.36	0.67	-0.6	0.01
52	CO19	Main member	-68.83	-0.38	-0.36	0.37	-0.11
	CO19	Connected member	0.93	-0.78	1.82	-2.28	-1.1
52	CO19	Connected member	16.68	-0.22	1.3	-1.49	0.5
	CO19	Connected member	-15.92	-0.58	-0.01	0.19	-0.74
52	CO19	Connected member	-61.81	-0.36	0.68	-0.61	0.03
	CO20	Main member	-31.31	-0.36	-0.27	0.89	-0.1
52	CO20	Connected member	4.72	-0.78	1.8	-2.18	-1.11
	CO20	Connected member	12.15	-0.22	0.93	-0.82	0.5
52	CO20	Connected member	-7.46	-0.59	0.1	0.03	-0.76
	CO20	Connected member	-29.62	-0.34	0.65	-0.51	0.06
52	CO21	Main member	-34.46	-0.31	0.78	3.34	0.03
	CO21	Connected member	9.17	-0.54	2.9	-3.76	-0.6
52	CO21	Connected member	18.67	-0.26	0.77	-0.38	0.2
	CO21	Connected member	-10.15	-0.29	0.19	0.12	-0.33
52	CO21	Connected member	-33.44	-0.3	0.53	-0.15	0.04
	CO22	Main member	-59.11	-0.02	-2.78	-5.11	0.13
52	CO22	Connected member	7.15	0.1	-0.75	1.47	0.35
	CO22	Connected member	21.54	-0.1	1.71	-2.43	-0.28
52	CO22	Connected member	-11.49	0.21	-0.32	0.12	0.29
	CO22	Connected member	-61.59	-0.02	0.94	-1.33	0.04
52	CO23	Main member	-61.5	-0.02	-2.75	-4.95	0.13
	CO23	Connected member	21.46	0.1	-0.73	1.44	0.35
52	CO23	Connected member	35.56	-0.1	1.77	-2.41	-0.28
	CO23	Connected member	-18.69	0.21	-0.4	0.23	0.29
52	CO23	Connected member	-66.86	-0.02	0.98	-1.34	0.03
	CO24	Main member	-76.55	-0.02	-2.8	-5.29	0.13
52	CO24	Connected member	12.9	0.1	-0.73	1.41	0.36
	CO24	Connected member	30.75	-0.11	1.91	-2.74	-0.28
52	CO24	Connected member	-18.84	0.21	-0.41	0.24	0.3
	CO24	Connected member	-78.24	-0.03	0.97	-1.39	0.03
52	CO25	Main member	-37.28	-0.02	-2.7	-4.62	0.13
	CO25	Connected member	19.18	0.1	-0.76	1.52	0.34
52	CO25	Connected member	28.25	-0.1	1.51	-1.96	-0.27
	CO25	Connected member	-11.02	0.2	-0.3	0.11	0.28
52	CO25	Connected member	-45.13	-0.02	0.94	-1.25	0.04
	CO26	Main member	-106.39	-0.4	-0.41	-0.08	-0.11
52	CO26	Connected member	-3.83	-0.78	1.86	-2.39	-1.09
	CO26	Connected member	19.48	-0.23	1.65	-2.1	0.5
52	CO26	Connected member	-24.85	-0.57	-0.11	0.32	-0.73
	CO26	Connected member	-92.62	-0.38	0.71	-0.69	0.01
52	CO27	Main member	-66.55	-0.37	-0.35	0.42	-0.13
	CO27	Connected member	2.61	-0.78	1.82	-2.27	-1.11



::LAV/team::

Page: 237/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO27	Connected member	17.86	-0.22	1.28	-1.45	0.51
	CO27	Connected member	-15.99	-0.58	-0.01	0.19	-0.76
	CO27	Connected member	-60.31	-0.36	0.67	-0.59	0.01
52	CO28	Main member	-66.07	-0.38	-0.35	0.43	-0.11
	CO28	Connected member	2.57	-0.78	1.82	-2.27	-1.1
	CO28	Connected member	17.65	-0.22	1.28	-1.44	0.5
52	CO28	Connected member	-15.9	-0.58	-0.01	0.19	-0.74
	CO28	Connected member	-59.78	-0.36	0.68	-0.6	0.03
	CO29	Main member	-28.56	-0.36	-0.26	0.95	-0.1
52	CO29	Connected member	6.36	-0.78	1.8	-2.17	-1.11
	CO29	Connected member	13.12	-0.22	0.91	-0.76	0.5
	CO29	Connected member	-7.43	-0.59	0.1	0.03	-0.76
52	CO29	Connected member	-27.59	-0.33	0.65	-0.5	0.06
	CO30	Main member	-31.7	-0.31	0.79	3.4	0.03
	CO30	Connected member	10.8	-0.54	2.9	-3.76	-0.6
52	CO30	Connected member	19.65	-0.26	0.75	-0.33	0.2
	CO30	Connected member	-10.13	-0.29	0.2	0.11	-0.34
	CO30	Connected member	-31.41	-0.3	0.53	-0.14	0.04
52	CO31	Main member	-56.36	-0.02	-2.77	-5.05	0.13
	CO31	Connected member	8.78	0.1	-0.75	1.48	0.35
	CO31	Connected member	22.52	-0.1	1.69	-2.37	-0.28
52	CO31	Connected member	-11.47	0.21	-0.32	0.12	0.29
	CO31	Connected member	-59.57	-0.02	0.94	-1.32	0.04
	CO32	Main member	-58.75	-0.02	-2.74	-4.89	0.12
52	CO32	Connected member	23.09	0.1	-0.73	1.44	0.35
	CO32	Connected member	36.53	-0.1	1.75	-2.35	-0.28
	CO32	Connected member	-18.67	0.21	-0.4	0.23	0.29
52	CO32	Connected member	-64.83	-0.02	0.98	-1.33	0.03
	CO33	Main member	-85.38	-0.02	-2.83	-5.45	0.13
	CO33	Connected member	10.7	0.1	-0.72	1.39	0.36
52	CO33	Connected member	30.54	-0.11	2	-2.91	-0.28
	CO33	Connected member	-20.25	0.21	-0.43	0.27	0.3
	CO33	Connected member	-85.48	-0.03	0.98	-1.42	0.04
52	CO34	Main member	-46.11	-0.02	-2.72	-4.78	0.13
	CO34	Connected member	16.98	0.1	-0.75	1.5	0.34
	CO34	Connected member	28.05	-0.1	1.59	-2.13	-0.27
52	CO34	Connected member	-12.44	0.2	-0.32	0.13	0.28
	CO34	Connected member	-52.37	-0.02	0.95	-1.28	0.04
	CO35	Main member	-115.24	-0.41	-0.43	-0.22	-0.11
52	CO35	Connected member	-6.05	-0.78	1.86	-2.41	-1.09
	CO35	Connected member	19.28	-0.23	1.73	-2.27	0.5
	CO35	Connected member	-26.28	-0.57	-0.13	0.35	-0.72
52	CO35	Connected member	-99.86	-0.38	0.72	-0.72	0.01
	CO36	Main member	-75.39	-0.38	-0.37	0.27	-0.13
	CO36	Connected member	0.39	-0.78	1.82	-2.29	-1.11
52	CO36	Connected member	17.65	-0.22	1.37	-1.61	0.51
	CO36	Connected member	-17.41	-0.58	-0.03	0.21	-0.75
	CO36	Connected member	-67.55	-0.36	0.68	-0.62	0.01
52	CO37	Main member	-74.91	-0.38	-0.37	0.28	-0.11
	CO37	Connected member	0.36	-0.78	1.83	-2.3	-1.1
	CO37	Connected member	17.44	-0.23	1.36	-1.6	0.5
52	CO37	Connected member	-17.32	-0.58	-0.03	0.22	-0.74
	CO37	Connected member	-67.02	-0.36	0.69	-0.63	0.02
	CO38	Main member	-37.39	-0.36	-0.29	0.81	-0.1
52	CO38	Connected member	4.15	-0.78	1.81	-2.2	-1.11
	CO38	Connected member	12.91	-0.22	0.99	-0.93	0.5
	CO38	Connected member	-8.85	-0.59	0.08	0.06	-0.76
52	CO38	Connected member	-34.83	-0.34	0.66	-0.53	0.05
	CO39	Main member	-40.54	-0.31	0.76	3.26	0.03
	CO39	Connected member	8.59	-0.54	2.91	-3.78	-0.6
52	CO39	Connected member	19.44	-0.26	0.83	-0.49	0.2
	CO39	Connected member	-11.55	-0.29	0.17	0.14	-0.33
	CO39	Connected member	-38.65	-0.3	0.54	-0.17	0.04
52	CO40	Main member	-65.19	-0.02	-2.79	-5.2	0.13
	CO40	Connected member	6.58	0.1	-0.75	1.45	0.35
	CO40	Connected member	22.31	-0.1	1.77	-2.55	-0.28
52	CO40	Connected member	-12.89	0.21	-0.34	0.15	0.29
	CO40	Connected member	-66.8	-0.02	0.95	-1.35	0.04
	CO41	Main member	-67.57	-0.02	-2.76	-5.04	0.13
52	CO41	Connected member	20.89	0.1	-0.72	1.42	0.35
	CO41	Connected member	36.33	-0.1	1.84	-2.52	-0.28
	CO41	Connected member	-20.08	0.21	-0.42	0.26	0.29
52	CO41	Connected member	-72.07	-0.02	0.99	-1.36	0.03
	CO42	Main member	-82.62	-0.02	-2.82	-5.39	0.13
	CO42	Connected member	12.34	0.1	-0.72	1.39	0.36
52	CO42	Connected member	31.52	-0.11	1.98	-2.85	-0.28
	CO42	Connected member	-20.23	0.21	-0.43	0.27	0.3
	CO42	Connected member	-83.45	-0.03	0.98	-1.41	0.03
52	CO43	Main member	-43.35	-0.02	-2.71	-4.71	0.13
	CO43	Connected member	18.62	0.1	-0.75	1.5	0.34
	CO43	Connected member	29.02	-0.1	1.57	-2.07	-0.27
52	CO43	Connected member	-12.41	0.2	-0.32	0.13	0.28
	CO43	Connected member	-50.34	-0.02	0.95	-1.27	0.04
	CO44	Main member	-112.48	-0.41	-0.42	-0.16	-0.11
52	CO44	Connected member	-4.41	-0.78	1.87	-2.41	-1.09
	CO44	Connected member	20.25	-0.23	1.71	-2.21	0.5
	CO44	Connected member	-26.25	-0.57	-0.13	0.35	-0.73
52	CO44	Connected member	-97.83	-0.38	0.72	-0.71	0.01
	CO45	Main member	-72.63	-0.38	-0.36	0.33	-0.14
	CO45	Connected member	2.03	-0.78	1.82	-2.29	-1.11
52	CO45	Connected member	18.62	-0.22	1.34	-1.56	0.51
	CO45	Connected member	-17.38	-0.58	-0.03	0.21	-0.76
	CO45	Connected member	-65.52	-0.36	0.68	-0.61	0.01
52	CO46	Main member	-72.15	-0.38	-0.36	0.34	-0.11



::LAVteam::

Page: 238/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO46	Connected member	2	-0.78	1.83	-2.29	-1.1
	CO46	Connected member	18.42	-0.22	1.34	-1.55	0.5
	CO46	Connected member	-17.3	-0.58	-0.03	0.21	-0.74
	CO46	Connected member	-64.99	-0.36	0.69	-0.62	0.02
52	CO47	Main member	-34.64	-0.36	-0.28	0.87	-0.1
	CO47	Connected member	5.79	-0.78	1.81	-2.2	-1.11
	CO47	Connected member	13.89	-0.22	0.97	-0.87	0.5
	CO47	Connected member	-8.83	-0.59	0.08	0.06	-0.76
52	CO47	Connected member	-32.8	-0.34	0.66	-0.52	0.05
	CO48	Main member	-37.78	-0.31	0.78	3.32	0.03
	CO48	Connected member	10.23	-0.54	2.91	-3.78	-0.6
	CO48	Connected member	20.41	-0.26	0.81	-0.44	0.2
52	CO48	Connected member	-11.53	-0.29	0.17	0.14	-0.34
	CO48	Connected member	-36.62	-0.3	0.54	-0.16	0.04
	CO49	Main member	-62.43	-0.02	-2.78	-5.14	0.13
	CO49	Connected member	8.22	0.1	-0.75	1.46	0.35
52	CO49	Connected member	23.29	-0.1	1.75	-2.49	-0.28
	CO49	Connected member	-12.86	0.21	-0.34	0.15	0.29
	CO49	Connected member	-64.78	-0.02	0.95	-1.34	0.04
	CO50	Main member	-64.82	-0.02	-2.75	-4.98	0.13
52	CO50	Connected member	22.53	0.1	-0.72	1.42	0.35
	CO50	Connected member	37.3	-0.1	1.81	-2.46	-0.28
	CO50	Connected member	-20.06	0.21	-0.42	0.26	0.29
	CO50	Connected member	-70.04	-0.02	0.99	-1.35	0.03
52	CO51	Main member	-63.07	-0.02	-2.78	-5.11	0.12
	CO51	Connected member	12.22	0.1	-0.75	1.46	0.36
	CO51	Connected member	26.93	-0.1	1.76	-2.48	-0.28
	CO51	Connected member	-15.15	0.21	-0.35	0.17	0.29
52	CO51	Connected member	-65.85	-0.02	0.95	-1.33	0.03
	CO52	Main member	-23.81	-0.02	-2.67	-4.43	0.12
	CO52	Connected member	18.5	0.1	-0.78	1.57	0.34
	CO52	Connected member	24.43	-0.1	1.36	-1.7	-0.27
52	CO52	Connected member	-7.34	0.2	-0.25	0.03	0.28
	CO52	Connected member	-32.74	-0.02	0.92	-1.19	0.04
	CO53	Main member	-92.9	-0.4	-0.39	0.07	-0.11
	CO53	Connected member	-4.49	-0.78	1.83	-2.33	-1.09
52	CO53	Connected member	15.67	-0.23	1.5	-1.85	0.49
	CO53	Connected member	-21.17	-0.57	-0.05	0.24	-0.73
	CO53	Connected member	-80.22	-0.37	0.69	-0.64	0.02
	CO54	Main member	-53.05	-0.37	-0.33	0.58	-0.13
52	CO54	Connected member	1.95	-0.78	1.79	-2.21	-1.11
	CO54	Connected member	14.05	-0.22	1.13	-1.19	0.51
	CO54	Connected member	-12.3	-0.58	0.05	0.11	-0.76
	CO54	Connected member	-47.91	-0.35	0.65	-0.54	0.02
52	CO55	Main member	-52.57	-0.37	-0.32	0.59	-0.11
	CO55	Connected member	1.91	-0.78	1.8	-2.21	-1.09
	CO55	Connected member	13.85	-0.22	1.13	-1.18	0.49
	CO55	Connected member	-12.21	-0.57	0.05	0.11	-0.74
52	CO55	Connected member	-47.39	-0.35	0.66	-0.55	0.03
	CO56	Main member	-15.06	-0.35	-0.24	1.12	-0.1
	CO56	Connected member	5.7	-0.78	1.78	-2.12	-1.11
	CO56	Connected member	9.32	-0.22	0.76	-0.51	0.49
52	CO56	Connected member	-3.75	-0.58	0.16	-0.05	-0.76
	CO56	Connected member	-15.2	-0.33	0.62	-0.45	0.06
	CO57	Main member	-18.21	-0.3	0.81	3.56	0.03
	CO57	Connected member	10.14	-0.54	2.88	-3.69	-0.6
52	CO57	Connected member	15.84	-0.26	0.6	-0.08	0.19
	CO57	Connected member	-6.44	-0.29	0.25	0.03	-0.34
	CO57	Connected member	-19.01	-0.29	0.5	-0.09	0.05
	CO58	Main member	-42.88	-0.02	-2.74	-4.86	0.12
52	CO58	Connected member	8.11	0.1	-0.77	1.53	0.35
	CO58	Connected member	18.7	-0.1	1.54	-2.11	-0.28
	CO58	Connected member	-7.78	0.21	-0.26	0.05	0.28
	CO58	Connected member	-47.18	-0.02	0.92	-1.27	0.04
52	CO59	Main member	-45.27	-0.02	-2.71	-4.7	0.12
	CO59	Connected member	22.41	0.1	-0.75	1.5	0.35
	CO59	Connected member	32.71	-0.1	1.6	-2.09	-0.28
	CO59	Connected member	-14.98	0.21	-0.34	0.16	0.29
52	CO59	Connected member	-52.45	-0.02	0.95	-1.27	0.03
	CO60	Main member	-60.32	-0.02	-2.77	-5.04	0.12
	CO60	Connected member	13.86	0.1	-0.75	1.47	0.36
	CO60	Connected member	27.91	-0.1	1.74	-2.42	-0.28
52	CO60	Connected member	-15.13	0.21	-0.35	0.17	0.29
	CO60	Connected member	-63.82	-0.02	0.95	-1.32	0.03
	CO61	Main member	-21.05	-0.02	-2.65	-4.36	0.12
	CO61	Connected member	20.13	0.1	-0.78	1.58	0.34
52	CO61	Connected member	25.41	-0.1	1.33	-1.64	-0.27
	CO61	Connected member	-7.32	0.2	-0.25	0.03	0.28
	CO61	Connected member	-30.72	-0.02	0.92	-1.18	0.04
	CO62	Main member	-90.14	-0.39	-0.38	0.13	-0.11
52	CO62	Connected member	-2.85	-0.78	1.84	-2.32	-1.09
	CO62	Connected member	16.65	-0.23	1.48	-1.8	0.49
	CO62	Connected member	-21.14	-0.57	-0.05	0.24	-0.73
	CO62	Connected member	-78.19	-0.37	0.69	-0.63	0.02
52	CO63	Main member	-50.3	-0.36	-0.32	0.64	-0.13
	CO63	Connected member	3.58	-0.78	1.79	-2.2	-1.11
	CO63	Connected member	15.02	-0.22	1.11	-1.14	0.51
	CO63	Connected member	-12.28	-0.58	0.05	0.11	-0.76
52	CO63	Connected member	-45.88	-0.35	0.65	-0.53	0.02
	CO64	Main member	-49.82	-0.37	-0.31	0.65	-0.11
	CO64	Connected member	3.55	-0.78	1.8	-2.21	-1.09
	CO64	Connected member	14.82	-0.22	1.11	-1.13	0.49
	CO64	Connected member	-12.19	-0.57	0.05	0.11	-0.74
	CO64	Connected member	-45.36	-0.35	0.66	-0.54	0.03



::LAV/team::

Page: 239/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO65	Main member	-12.31	-0.35	-0.23	1.18	-0.1
	CO65	Connected member	7.33	-0.78	1.78	-2.11	-1.11
	CO65	Connected member	10.29	-0.22	0.74	-0.45	0.49
	CO65	Connected member	-3.72	-0.58	0.16	-0.05	-0.76
	CO65	Connected member	-13.17	-0.33	0.62	-0.44	0.06
52	CO66	Main member	-15.45	-0.3	0.82	3.62	0.03
	CO66	Connected member	11.77	-0.54	2.88	-3.69	-0.6
	CO66	Connected member	16.82	-0.26	0.58	-0.02	0.19
	CO66	Connected member	-6.42	-0.29	0.25	0.03	-0.34
	CO66	Connected member	-16.99	-0.29	0.5	-0.08	0.05
52	CO67	Main member	-40.13	-0.02	-2.73	-4.8	0.12
	CO67	Connected member	9.74	0.1	-0.77	1.53	0.35
	CO67	Connected member	19.67	-0.1	1.51	-2.05	-0.28
	CO67	Connected member	-7.76	0.2	-0.26	0.05	0.28
	CO67	Connected member	-45.15	-0.02	0.92	-1.26	0.04
52	CO68	Main member	-42.52	-0.02	-2.7	-4.64	0.12
	CO68	Connected member	24.05	0.1	-0.75	1.5	0.35
	CO68	Connected member	33.69	-0.1	1.57	-2.03	-0.28
	CO68	Connected member	-14.96	0.21	-0.34	0.16	0.29
	CO68	Connected member	-50.42	-0.02	0.96	-1.26	0.03
52	CO69	Main member	-68.06	-0.02	-2.79	-5.19	0.13
	CO69	Connected member	12.31	0.1	-0.74	1.44	0.36
	CO69	Connected member	28.35	-0.1	1.82	-2.58	-0.28
	CO69	Connected member	-16.28	0.21	-0.37	0.19	0.3
	CO69	Connected member	-70.62	-0.02	0.96	-1.35	0.03
52	CO70	Main member	-28.79	-0.02	-2.68	-4.51	0.12
	CO70	Connected member	18.59	0.1	-0.77	1.55	0.34
	CO70	Connected member	25.85	-0.1	1.41	-1.81	-0.27
	CO70	Connected member	-8.46	0.2	-0.27	0.06	0.28
	CO70	Connected member	-37.52	-0.02	0.92	-1.21	0.04
52	CO71	Main member	-97.89	-0.4	-0.4	0.01	-0.11
	CO71	Connected member	-4.41	-0.78	1.84	-2.35	-1.09
	CO71	Connected member	17.09	-0.23	1.56	-1.96	0.5
	CO71	Connected member	-22.29	-0.57	-0.07	0.27	-0.73
	CO71	Connected member	-84.99	-0.37	0.69	-0.66	0.02
52	CO72	Main member	-58.04	-0.37	-0.34	0.51	-0.13
	CO72	Connected member	2.03	-0.78	1.8	-2.23	-1.11
	CO72	Connected member	15.46	-0.22	1.19	-1.3	0.51
	CO72	Connected member	-13.42	-0.58	0.03	0.14	-0.76
	CO72	Connected member	-52.68	-0.35	0.66	-0.56	0.02
52	CO73	Main member	-57.56	-0.37	-0.33	0.52	-0.11
	CO73	Connected member	1.99	-0.78	1.81	-2.24	-1.09
	CO73	Connected member	15.26	-0.22	1.19	-1.29	0.5
	CO73	Connected member	-13.33	-0.57	0.03	0.14	-0.74
	CO73	Connected member	-52.16	-0.35	0.66	-0.57	0.03
52	CO74	Main member	-20.05	-0.35	-0.25	1.05	-0.1
	CO74	Connected member	5.78	-0.78	1.79	-2.14	-1.11
	CO74	Connected member	10.73	-0.22	0.82	-0.61	0.49
	CO74	Connected member	-4.87	-0.59	0.14	-0.02	-0.76
	CO74	Connected member	-19.97	-0.33	0.63	-0.47	0.06
52	CO75	Main member	-23.2	-0.3	0.8	3.49	0.03
	CO75	Connected member	10.22	-0.54	2.89	-3.72	-0.6
	CO75	Connected member	17.25	-0.26	0.66	-0.18	0.2
	CO75	Connected member	-7.57	-0.29	0.23	0.06	-0.34
	CO75	Connected member	-23.79	-0.29	0.51	-0.11	0.05
52	CO76	Main member	-47.87	-0.02	-2.75	-4.94	0.13
	CO76	Connected member	8.19	0.1	-0.76	1.51	0.35
	CO76	Connected member	20.11	-0.1	1.59	-2.22	-0.28
	CO76	Connected member	-8.91	0.21	-0.28	0.08	0.29
	CO76	Connected member	-51.95	-0.02	0.93	-1.29	0.04
52	CO77	Main member	-50.26	-0.02	-2.72	-4.78	0.12
	CO77	Connected member	22.5	0.1	-0.74	1.48	0.35
	CO77	Connected member	34.13	-0.1	1.66	-2.2	-0.28
	CO77	Connected member	-16.11	0.21	-0.36	0.19	0.29
	CO77	Connected member	-57.22	-0.02	0.96	-1.29	0.03
52	CO78	Main member	-74.13	-0.02	-2.8	-5.28	0.13
	CO78	Connected member	11.74	0.1	-0.73	1.42	0.36
	CO78	Connected member	29.12	-0.11	1.88	-2.7	-0.28
	CO78	Connected member	-17.67	0.21	-0.39	0.22	0.3
	CO78	Connected member	-75.83	-0.03	0.97	-1.38	0.03
52	CO79	Main member	-34.86	-0.02	-2.69	-4.6	0.12
	CO79	Connected member	18.02	0.1	-0.76	1.53	0.34
	CO79	Connected member	26.62	-0.1	1.48	-1.92	-0.27
	CO79	Connected member	-9.85	0.2	-0.29	0.09	0.28
	CO79	Connected member	-42.72	-0.02	0.93	-1.24	0.04
52	CO80	Main member	-103.97	-0.4	-0.41	-0.07	-0.11
	CO80	Connected member	-4.99	-0.78	1.85	-2.37	-1.09
	CO80	Connected member	17.85	-0.23	1.62	-2.07	0.5
	CO80	Connected member	-23.69	-0.57	-0.09	0.3	-0.73
	CO80	Connected member	-90.21	-0.38	0.7	-0.68	0.01
52	CO81	Main member	-64.12	-0.37	-0.35	0.43	-0.13
	CO81	Connected member	1.45	-0.78	1.81	-2.25	-1.11
	CO81	Connected member	16.23	-0.22	1.25	-1.41	0.51
	CO81	Connected member	-14.82	-0.58	0.01	0.16	-0.76
	CO81	Connected member	-57.9	-0.36	0.67	-0.58	0.01
52	CO82	Main member	-63.65	-0.38	-0.35	0.44	-0.11
	CO82	Connected member	1.42	-0.78	1.81	-2.26	-1.1
	CO82	Connected member	16.02	-0.22	1.25	-1.4	0.5
	CO82	Connected member	-14.73	-0.57	0.01	0.16	-0.74
	CO82	Connected member	-57.37	-0.36	0.67	-0.59	0.03
52	CO83	Main member	-26.13	-0.36	-0.26	0.96	-0.1
	CO83	Connected member	5.21	-0.78	1.79	-2.16	-1.11
	CO83	Connected member	11.49	-0.22	0.88	-0.72	0.5
	CO83	Connected member	-6.27	-0.59	0.12	0.01	-0.76



::LAV/team::

Page: 240/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO83	Connected member	-25.18	-0.33	0.64	-0.49	0.06
	CO84	Main member	-29.28	-0.3	0.79	3.41	0.03
	CO84	Connected member	9.65	-0.54	2.89	-3.74	-0.6
	CO84	Connected member	18.02	-0.26	0.72	-0.29	0.2
	CO84	Connected member	-8.96	-0.29	0.21	0.09	-0.34
52	CO84	Connected member	-29	-0.3	0.52	-0.13	0.04
	CO85	Main member	-53.94	-0.02	-2.77	-5.03	0.13
	CO85	Connected member	7.63	0.1	-0.76	1.49	0.35
	CO85	Connected member	20.88	-0.1	1.66	-2.33	-0.28
	CO85	Connected member	-10.3	0.21	-0.3	0.1	0.29
52	CO85	Connected member	-57.16	-0.02	0.94	-1.31	0.04
	CO86	Main member	-56.33	-0.02	-2.74	-4.87	0.12
	CO86	Connected member	21.94	0.1	-0.73	1.46	0.35
	CO86	Connected member	34.9	-0.1	1.72	-2.31	-0.28
	CO86	Connected member	-17.5	0.21	-0.38	0.21	0.29
52	CO86	Connected member	-62.43	-0.02	0.97	-1.32	0.03
	CO87	Main member	-51.82	-0.02	-2.75	-4.93	0.12
	CO87	Connected member	13.27	0.1	-0.76	1.5	0.36
	CO87	Connected member	25.5	-0.1	1.64	-2.26	-0.28
	CO87	Connected member	-12.57	0.21	-0.31	0.12	0.29
52	CO87	Connected member	-56.21	-0.02	0.94	-1.29	0.03
	CO88	Main member	-12.56	-0.02	-2.64	-4.25	0.12
	CO88	Connected member	19.54	0.1	-0.79	1.61	0.34
	CO88	Connected member	23.01	-0.1	1.24	-1.48	-0.27
	CO88	Connected member	-4.76	0.2	-0.21	-0.01	0.28
52	CO88	Connected member	-23.1	-0.02	0.9	-1.15	0.03
	CO89	Main member	-81.63	-0.39	-0.37	0.23	-0.11
	CO89	Connected member	-3.43	-0.78	1.82	-2.29	-1.09
	CO89	Connected member	14.25	-0.23	1.39	-1.65	0.49
	CO89	Connected member	-18.58	-0.57	-0.01	0.19	-0.73
52	CO89	Connected member	-70.56	-0.37	0.67	-0.6	0.02
	CO90	Main member	-41.79	-0.36	-0.3	0.73	-0.13
	CO90	Connected member	3	-0.78	1.78	-2.17	-1.1
	CO90	Connected member	12.63	-0.22	1.02	-0.99	0.5
	CO90	Connected member	-9.71	-0.57	0.08	0.06	-0.76
52	CO90	Connected member	-38.26	-0.34	0.63	-0.5	0.02
	CO91	Main member	-41.31	-0.37	-0.3	0.74	-0.11
	CO91	Connected member	2.97	-0.77	1.78	-2.17	-1.09
	CO91	Connected member	12.43	-0.22	1.02	-0.98	0.49
	CO91	Connected member	-9.62	-0.57	0.08	0.06	-0.74
52	CO91	Connected member	-37.73	-0.34	0.64	-0.51	0.04
	CO92	Main member	-3.8	-0.35	-0.21	1.27	-0.1
	CO92	Connected member	6.75	-0.78	1.77	-2.08	-1.11
	CO92	Connected member	7.9	-0.22	0.65	-0.3	0.49
	CO92	Connected member	-1.16	-0.58	0.2	-0.1	-0.76
52	CO92	Connected member	-5.55	-0.32	0.61	-0.41	0.07
	CO93	Main member	-6.94	-0.3	0.83	3.71	0.03
	CO93	Connected member	11.19	-0.54	2.86	-3.65	-0.6
	CO93	Connected member	14.42	-0.26	0.49	0.12	0.19
	CO93	Connected member	-3.85	-0.29	0.29	-0.02	-0.34
52	CO93	Connected member	-9.36	-0.29	0.48	-0.05	0.05
	CO94	Main member	-31.63	-0.02	-2.71	-4.69	0.12
	CO94	Connected member	9.15	0.1	-0.78	1.57	0.35
	CO94	Connected member	17.27	-0.1	1.42	-1.9	-0.28
	CO94	Connected member	-5.2	0.2	-0.22	0	0.28
52	CO94	Connected member	-37.53	-0.02	0.9	-1.22	0.03
	CO95	Main member	-34.03	-0.02	-2.68	-4.53	0.12
	CO95	Connected member	23.45	0.1	-0.76	1.53	0.35
	CO95	Connected member	31.29	-0.1	1.48	-1.88	-0.28
	CO95	Connected member	-12.4	0.21	-0.3	0.11	0.29
52	CO95	Connected member	-42.81	-0.02	0.94	-1.23	0.03
	CO96	Main member	-86.21	-0.01	-1.71	-3.02	0.02
	CO96	Connected member	-7.84	0.01	0.45	-0.33	0.02
	CO96	Connected member	10.33	-0.01	1.71	-2.42	-0.03
	CO96	Connected member	-16.65	0.02	-0.18	0.15	0.02
52	CO96	Connected member	-75.43	0	0.83	-1.09	0.02
	CO97	Main member	-83.45	-0.01	-1.7	-2.96	0.02
	CO97	Connected member	-6.2	0.01	0.45	-0.33	0.02
	CO97	Connected member	11.31	-0.01	1.69	-2.37	-0.03
	CO97	Connected member	-16.63	0.02	-0.18	0.15	0.02
52	CO97	Connected member	-73.4	0	0.83	-1.08	0.02
	CO98	Main member	-57	-0.02	-2.76	-5.01	0.12
	CO98	Connected member	12.79	0.1	-0.75	1.48	0.36
	CO98	Connected member	26.16	-0.1	1.7	-2.36	-0.28
	CO98	Connected member	-13.76	0.21	-0.33	0.14	0.29
52	CO98	Connected member	-60.64	-0.02	0.94	-1.31	0.03
	CO99	Main member	-17.74	-0.02	-2.65	-4.33	0.12
	CO99	Connected member	19.06	0.1	-0.78	1.59	0.34
	CO99	Connected member	23.66	-0.1	1.29	-1.58	-0.27
	CO99	Connected member	-5.94	0.2	-0.23	0.01	0.28
52	CO99	Connected member	-27.54	-0.02	0.91	-1.17	0.03
	CO100	Main member	-86.81	-0.39	-0.38	0.16	-0.11
	CO100	Connected member	-3.92	-0.78	1.83	-2.3	-1.09
	CO100	Connected member	14.91	-0.23	1.44	-1.74	0.49
	CO100	Connected member	-19.77	-0.57	-0.03	0.22	-0.73
52	CO100	Connected member	-75.01	-0.37	0.68	-0.62	0.02
	CO101	Main member	-46.97	-0.36	-0.32	0.66	-0.13
	CO101	Connected member	2.52	-0.78	1.79	-2.19	-1.11
	CO101	Connected member	13.28	-0.22	1.07	-1.08	0.51
	CO101	Connected member	-10.9	-0.58	0.07	0.08	-0.76
52	CO101	Connected member	-42.7	-0.35	0.64	-0.52	0.02
	CO102	Main member	-46.49	-0.37	-0.31	0.67	-0.11
	CO102	Connected member	2.48	-0.78	1.79	-2.19	-1.09
	CO102	Connected member	13.08	-0.22	1.07	-1.07	0.49



::LAV/team::

Page: 241/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO102	Connected member	-10.81	-0.57	0.07	0.08	-0.74
	CO102	Connected member	-42.17	-0.35	0.65	-0.53	0.04
	CO103	Main member	-8.98	-0.35	-0.22	1.2	-0.1
52	CO103	Connected member	6.27	-0.78	1.77	-2.09	-1.11
	CO103	Connected member	8.55	-0.22	0.7	-0.4	0.49
	CO103	Connected member	-2.35	-0.58	0.18	-0.07	-0.76
52	CO103	Connected member	-9.98	-0.32	0.61	-0.42	0.07
	CO104	Main member	-12.12	-0.3	0.82	3.64	0.03
	CO104	Connected member	10.71	-0.54	2.87	-3.67	-0.6
52	CO104	Connected member	15.07	-0.26	0.54	0.03	0.19
	CO104	Connected member	-5.04	-0.29	0.27	0.01	-0.34
	CO104	Connected member	-13.8	-0.29	0.49	-0.07	0.05
52	CO105	Main member	-36.81	-0.02	-2.73	-4.77	0.12
	CO105	Connected member	8.67	0.1	-0.78	1.55	0.35
	CO105	Connected member	17.93	-0.1	1.47	-2	-0.28
52	CO105	Connected member	-6.39	0.2	-0.24	0.02	0.28
	CO105	Connected member	-41.97	-0.02	0.91	-1.24	0.04
	CO106	Main member	-39.2	-0.02	-2.69	-4.61	0.12
52	CO106	Connected member	22.97	0.1	-0.75	1.52	0.35
	CO106	Connected member	31.94	-0.1	1.53	-1.97	-0.28
	CO106	Connected member	-13.59	0.21	-0.32	0.13	0.29
52	CO106	Connected member	-47.24	-0.02	0.95	-1.25	0.03
	CO107	Main member	-54.24	-0.02	-2.75	-4.95	0.12
	CO107	Connected member	14.42	0.1	-0.75	1.49	0.36
52	CO107	Connected member	27.13	-0.1	1.67	-2.3	-0.28
	CO107	Connected member	-13.73	0.21	-0.33	0.14	0.29
	CO107	Connected member	-58.61	-0.02	0.94	-1.3	0.03
52	CO108	Main member	-14.98	-0.02	-2.64	-4.27	0.12
	CO108	Connected member	20.69	0.1	-0.78	1.6	0.34
	CO108	Connected member	24.64	-0.1	1.27	-1.52	-0.27
52	CO108	Connected member	-5.92	0.2	-0.23	0.01	0.28
	CO108	Connected member	-25.51	-0.02	0.91	-1.16	0.03
	CO109	Main member	-84.06	-0.39	-0.37	0.22	-0.11
52	CO109	Connected member	-2.28	-0.78	1.83	-2.3	-1.09
	CO109	Connected member	15.88	-0.23	1.42	-1.69	0.49
	CO109	Connected member	-19.74	-0.57	-0.03	0.22	-0.73
52	CO109	Connected member	-72.97	-0.37	0.68	-0.61	0.02
	CO110	Main member	-44.22	-0.36	-0.3	0.72	-0.13
	CO110	Connected member	4.15	-0.78	1.79	-2.18	-1.11
52	CO110	Connected member	14.26	-0.22	1.05	-1.03	0.51
	CO110	Connected member	-10.88	-0.58	0.07	0.08	-0.76
	CO110	Connected member	-40.67	-0.35	0.64	-0.51	0.02
52	CO111	Main member	-43.74	-0.37	-0.3	0.73	-0.11
	CO111	Connected member	4.12	-0.78	1.79	-2.19	-1.09
	CO111	Connected member	14.05	-0.22	1.05	-1.02	0.49
52	CO111	Connected member	-10.79	-0.57	0.07	0.08	-0.74
	CO111	Connected member	-40.14	-0.35	0.65	-0.52	0.04
	CO112	Main member	-6.23	-0.35	-0.21	1.26	-0.1
52	CO112	Connected member	7.9	-0.78	1.77	-2.09	-1.11
	CO112	Connected member	9.53	-0.22	0.68	-0.34	0.49
	CO112	Connected member	-2.32	-0.58	0.18	-0.08	-0.76
52	CO112	Connected member	-7.96	-0.32	0.61	-0.41	0.07
	CO113	Main member	-9.37	-0.3	0.83	3.7	0.03
	CO113	Connected member	12.34	-0.54	2.87	-3.67	-0.6
52	CO113	Connected member	16.05	-0.26	0.52	0.09	0.19
	CO113	Connected member	-5.02	-0.29	0.27	0.01	-0.34
	CO113	Connected member	-11.77	-0.29	0.49	-0.06	0.05
52	CO114	Main member	-34.05	-0.02	-2.71	-4.7	0.12
	CO114	Connected member	10.31	0.1	-0.78	1.55	0.35
	CO114	Connected member	18.9	-0.1	1.45	-1.94	-0.28
52	CO114	Connected member	-6.37	0.2	-0.24	0.02	0.28
	CO114	Connected member	-39.94	-0.02	0.91	-1.23	0.04
	CO115	Main member	-36.45	-0.02	-2.68	-4.54	0.12
52	CO115	Connected member	24.61	0.1	-0.75	1.52	0.35
	CO115	Connected member	32.92	-0.1	1.51	-1.91	-0.28
	CO115	Connected member	-13.57	0.21	-0.32	0.13	0.29
52	CO115	Connected member	-45.21	-0.02	0.95	-1.24	0.03
	CO116	Main member	-45.75	-0.02	-2.74	-4.84	0.12
	CO116	Connected member	13.83	0.1	-0.77	1.52	0.36
52	CO116	Connected member	24.73	-0.1	1.58	-2.15	-0.28
	CO116	Connected member	-11.17	0.21	-0.29	0.09	0.29
	CO116	Connected member	-51	-0.02	0.93	-1.27	0.03
52	CO117	Main member	-6.49	-0.02	-2.62	-4.16	0.12
	CO117	Connected member	20.1	0.1	-0.8	1.63	0.34
	CO117	Connected member	22.24	-0.1	1.18	-1.37	-0.27
52	CO117	Connected member	-3.36	0.2	-0.19	-0.04	0.28
	CO117	Connected member	-17.89	-0.02	0.89	-1.12	0.03
	CO118	Main member	-75.55	-0.39	-0.36	0.31	-0.11
52	CO118	Connected member	-2.86	-0.77	1.81	-2.26	-1.08
	CO118	Connected member	13.48	-0.23	1.33	-1.54	0.49
	CO118	Connected member	-17.18	-0.57	0.01	0.17	-0.73
52	CO118	Connected member	-65.35	-0.36	0.66	-0.58	0.03
	CO119	Main member	-35.71	-0.36	-0.29	0.82	-0.13
	CO119	Connected member	3.57	-0.78	1.77	-2.14	-1.1
52	CO119	Connected member	11.86	-0.22	0.96	-0.88	0.5
	CO119	Connected member	-8.32	-0.57	0.11	0.03	-0.76
	CO119	Connected member	-33.05	-0.34	0.63	-0.48	0.02
52	CO120	Main member	-35.23	-0.36	-0.29	0.83	-0.11
	CO120	Connected member	3.54	-0.77	1.78	-2.15	-1.09
	CO120	Connected member	11.66	-0.22	0.96	-0.87	0.49
52	CO120	Connected member	-8.23	-0.57	0.1	0.03	-0.74
	CO120	Connected member	-32.52	-0.34	0.63	-0.49	0.04
	CO121	Main member	2.28	-0.34	-0.2	1.36	-0.1
	CO121	Connected member	7.32	-0.78	1.76	-2.05	-1.11



::LAV/team::

Page: 242/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO121	Connected member	7.13	-0.22	0.59	-0.19	0.49
	CO121	Connected member	0.24	-0.58	0.22	-0.12	-0.76
	CO121	Connected member	-0.33	-0.32	0.6	-0.38	0.07
	CO122	Main member	-0.86	-0.29	0.85	3.79	0.03
52	CO122	Connected member	11.76	-0.54	2.85	-3.63	-0.6
	CO122	Connected member	13.65	-0.26	0.43	0.23	0.19
	CO122	Connected member	-2.46	-0.29	0.31	-0.04	-0.34
	CO122	Connected member	-4.15	-0.28	0.47	-0.03	0.05
52	CO123	Main member	-25.56	-0.02	-2.7	-4.59	0.12
	CO123	Connected member	9.71	0.1	-0.79	1.59	0.35
	CO123	Connected member	16.5	-0.1	1.36	-1.78	-0.28
	CO123	Connected member	-3.81	0.2	-0.2	-0.02	0.28
52	CO123	Connected member	-32.32	-0.02	0.9	-1.2	0.03
	CO124	Main member	-27.96	-0.02	-2.67	-4.43	0.12
	CO124	Connected member	24.01	0.11	-0.77	1.55	0.35
	CO124	Connected member	30.51	-0.1	1.42	-1.76	-0.28
52	CO124	Connected member	-11.01	0.21	-0.28	0.09	0.29
	CO124	Connected member	-37.6	-0.02	0.93	-1.2	0.02
	CO125	Main member	-52.42	0	-1.65	-2.54	0.01
	CO125	Connected member	-4.66	0.01	0.41	-0.22	0.02
52	CO125	Connected member	6.07	-0.01	1.36	-1.8	-0.02
	CO125	Connected member	-8.89	0.02	-0.07	0.01	0.01
	CO125	Connected member	-46.47	0	0.78	-0.96	0.01
	CO126	Main member	-46.91	0	-1.63	-2.41	0.01
52	CO126	Connected member	-1.38	0.01	0.41	-0.21	0.02
	CO126	Connected member	8.03	-0.01	1.32	-1.68	-0.02
	CO126	Connected member	-8.84	0.01	-0.07	0.01	0.01
	CO126	Connected member	-42.41	0	0.78	-0.94	0.01
52	CO127	Main member	-74.76	0	-1.69	-2.86	0.02
	CO127	Connected member	-6.21	0.01	0.44	-0.3	0.02
	CO127	Connected member	9.67	-0.01	1.6	-2.22	-0.03
	CO127	Connected member	-14	0.02	-0.15	0.11	0.02
52	CO127	Connected member	-66.11	0	0.81	-1.05	0.02
	CO128	Main member	-69.24	0	-1.67	-2.74	0.02
	CO128	Connected member	-2.93	0.01	0.44	-0.29	0.02
	CO128	Connected member	11.62	-0.01	1.55	-2.11	-0.03
52	CO128	Connected member	-13.95	0.02	-0.14	0.11	0.01
	CO128	Connected member	-62.05	0	0.81	-1.03	0.02
	CO129	Main member	-80.84	0	-1.7	-2.95	0.02
	CO129	Connected member	-6.79	0.01	0.45	-0.32	0.02
52	CO129	Connected member	10.44	-0.01	1.66	-2.34	-0.03
	CO129	Connected member	-15.4	0.02	-0.17	0.14	0.02
	CO129	Connected member	-71.32	0	0.82	-1.07	0.02
	CO130	Main member	-75.32	0	-1.68	-2.83	0.02
52	CO130	Connected member	-3.5	0.01	0.45	-0.31	0.02
	CO130	Connected member	12.39	-0.01	1.61	-2.22	-0.03
	CO130	Connected member	-15.35	0.02	-0.16	0.14	0.01
	CO130	Connected member	-67.26	0	0.82	-1.05	0.02
52	CO131	Main member	-58.5	0	-1.66	-2.62	0.01
	CO131	Connected member	-5.23	0.01	0.42	-0.24	0.02
	CO131	Connected member	6.84	-0.01	1.43	-1.91	-0.02
	CO131	Connected member	-10.29	0.02	-0.09	0.03	0.01
52	CO131	Connected member	-51.68	0	0.79	-0.99	0.01
	CO132	Main member	-52.99	0	-1.64	-2.5	0.01
	CO132	Connected member	-1.95	0.01	0.42	-0.23	0.02
	CO132	Connected member	8.79	-0.01	1.38	-1.79	-0.02
52	CO132	Connected member	-10.24	0.01	-0.09	0.03	0.01
	CO132	Connected member	-47.62	0	0.79	-0.97	0.01
	CO133	Main member	-45.56	-0.02	-2.74	-4.84	0.12
	CO133	Connected member	14.4	0.11	-0.76	1.51	0.36
52	CO133	Connected member	25.49	-0.1	1.59	-2.16	-0.28
	CO133	Connected member	-11.11	0.21	-0.3	0.1	0.29
	CO133	Connected member	-51.33	-0.02	0.93	-1.27	0.03
	CO134	Main member	-6.3	-0.02	-2.62	-4.16	0.12
52	CO134	Connected member	20.67	0.1	-0.8	1.62	0.34
	CO134	Connected member	23	-0.1	1.18	-1.38	-0.27
	CO134	Connected member	-3.29	0.2	-0.2	-0.03	0.28
	CO134	Connected member	-18.23	-0.02	0.89	-1.12	0.03
52	CO135	Main member	-75.36	-0.39	-0.36	0.31	-0.11
	CO135	Connected member	-2.29	-0.78	1.81	-2.27	-1.09
	CO135	Connected member	14.24	-0.23	1.33	-1.55	0.49
	CO135	Connected member	-17.11	-0.57	0	0.17	-0.73
52	CO135	Connected member	-65.68	-0.36	0.66	-0.58	0.02
	CO136	Main member	-35.52	-0.36	-0.29	0.82	-0.13
	CO136	Connected member	4.14	-0.78	1.77	-2.15	-1.1
	CO136	Connected member	12.62	-0.21	0.96	-0.89	0.5
52	CO136	Connected member	-8.25	-0.57	0.1	0.04	-0.76
	CO136	Connected member	-33.38	-0.34	0.62	-0.48	0.02
	CO137	Main member	-35.04	-0.36	-0.29	0.83	-0.11
	CO137	Connected member	4.1	-0.77	1.78	-2.15	-1.09
52	CO137	Connected member	12.42	-0.22	0.96	-0.88	0.49
	CO137	Connected member	-8.16	-0.57	0.1	0.04	-0.74
	CO137	Connected member	-32.86	-0.34	0.63	-0.49	0.04
	CO138	Main member	2.47	-0.34	-0.2	1.36	-0.1
52	CO138	Connected member	7.89	-0.78	1.76	-2.06	-1.11
	CO138	Connected member	7.89	-0.22	0.59	-0.2	0.49
	CO138	Connected member	0.3	-0.58	0.21	-0.12	-0.76
	CO138	Connected member	-0.67	-0.32	0.6	-0.38	0.07
52	CO139	Main member	-0.68	-0.29	0.85	3.79	0.03
	CO139	Connected member	12.33	-0.54	2.86	-3.63	-0.6
	CO139	Connected member	14.41	-0.26	0.43	0.22	0.19
	CO139	Connected member	-2.39	-0.29	0.31	-0.04	-0.34
52	CO139	Connected member	-4.49	-0.28	0.47	-0.03	0.05
	CO140	Main member	-25.37	-0.02	-2.7	-4.59	0.12



::LAV/team::

Page: 243/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO140	Connected member	10.28	0.1	-0.79	1.58	0.35
	CO140	Connected member	17.26	-0.1	1.36	-1.79	-0.28
	CO140	Connected member	-3.74	0.2	-0.21	-0.02	0.28
	CO140	Connected member	-32.66	-0.02	0.89	-1.2	0.03
52	CO141	Main member	-27.77	-0.02	-2.67	-4.43	0.12
	CO141	Connected member	24.58	0.11	-0.76	1.55	0.35
	CO141	Connected member	31.27	-0.1	1.42	-1.77	-0.28
	CO141	Connected member	-10.94	0.21	-0.29	0.09	0.29
52	CO141	Connected member	-37.93	-0.02	0.93	-1.2	0.02
	CO142	Main member	-40.05	-0.02	-2.71	-4.71	0.12
	CO142	Connected member	17.67	0.11	-0.76	1.52	0.36
	CO142	Connected member	27.44	-0.1	1.54	-2.04	-0.28
52	CO142	Connected member	-11.06	0.21	-0.3	0.1	0.29
	CO142	Connected member	-47.28	-0.02	0.93	-1.25	0.03
	CO143	Main member	-0.8	-0.02	-2.6	-4.03	0.12
	CO143	Connected member	23.93	0.1	-0.79	1.63	0.34
52	CO143	Connected member	24.94	-0.1	1.13	-1.26	-0.27
	CO143	Connected member	-3.25	0.2	-0.19	-0.03	0.27
	CO143	Connected member	-14.18	-0.02	0.89	-1.1	0.03
	CO144	Main member	-69.85	-0.38	-0.34	0.43	-0.11
52	CO144	Connected member	0.99	-0.78	1.82	-2.26	-1.09
	CO144	Connected member	16.19	-0.23	1.28	-1.43	0.49
	CO144	Connected member	-17.07	-0.57	0	0.17	-0.73
	CO144	Connected member	-61.62	-0.36	0.66	-0.56	0.02
52	CO145	Main member	-30.01	-0.35	-0.27	0.94	-0.13
	CO145	Connected member	7.42	-0.78	1.78	-2.14	-1.11
	CO145	Connected member	14.57	-0.21	0.92	-0.77	0.51
	CO145	Connected member	-8.2	-0.58	0.1	0.03	-0.76
52	CO145	Connected member	-29.32	-0.34	0.63	-0.46	0.02
	CO146	Main member	-29.53	-0.36	-0.27	0.95	-0.11
	CO146	Connected member	7.38	-0.77	1.78	-2.14	-1.09
	CO146	Connected member	14.37	-0.22	0.91	-0.76	0.49
52	CO146	Connected member	-8.11	-0.57	0.1	0.03	-0.74
	CO146	Connected member	-28.8	-0.34	0.63	-0.47	0.04
	CO147	Main member	7.97	-0.34	-0.17	1.48	-0.1
	CO147	Connected member	11.16	-0.78	1.76	-2.05	-1.11
52	CO147	Connected member	9.84	-0.22	0.54	-0.08	0.49
	CO147	Connected member	0.35	-0.58	0.22	-0.12	-0.77
	CO147	Connected member	3.38	-0.32	0.59	-0.36	0.07
	CO148	Main member	4.83	-0.29	0.87	3.91	0.02
52	CO148	Connected member	15.6	-0.54	2.86	-3.62	-0.6
	CO148	Connected member	16.36	-0.26	0.39	0.34	0.19
	CO148	Connected member	-2.34	-0.29	0.31	-0.04	-0.34
	CO148	Connected member	-0.43	-0.28	0.47	-0.01	0.05
52	CO149	Main member	-19.86	-0.02	-2.67	-4.46	0.12
	CO149	Connected member	13.55	0.1	-0.79	1.59	0.35
	CO149	Connected member	19.21	-0.1	1.31	-1.67	-0.28
	CO149	Connected member	-3.69	0.2	-0.21	-0.02	0.28
52	CO149	Connected member	-28.6	-0.02	0.9	-1.18	0.03
	CO150	Main member	-22.26	-0.02	-2.64	-4.3	0.11
	CO150	Connected member	27.85	0.11	-0.76	1.56	0.35
	CO150	Connected member	33.22	-0.1	1.37	-1.65	-0.28
52	CO150	Connected member	-10.89	0.21	-0.29	0.09	0.29
	CO150	Connected member	-33.88	-0.02	0.93	-1.18	0.02
	CO151	Main member	-51.63	-0.02	-2.75	-4.93	0.12
	CO151	Connected member	13.84	0.1	-0.76	1.5	0.36
52	CO151	Connected member	26.26	-0.1	1.65	-2.27	-0.28
	CO151	Connected member	-12.5	0.21	-0.32	0.12	0.29
	CO151	Connected member	-56.54	-0.02	0.93	-1.29	0.03
	CO152	Main member	-12.37	-0.02	-2.64	-4.25	0.12
52	CO152	Connected member	20.11	0.1	-0.79	1.6	0.34
	CO152	Connected member	23.77	-0.1	1.24	-1.49	-0.27
	CO152	Connected member	-4.69	0.2	-0.21	-0.01	0.28
	CO152	Connected member	-23.44	-0.02	0.9	-1.15	0.03
52	CO153	Main member	-81.44	-0.39	-0.37	0.23	-0.11
	CO153	Connected member	-2.86	-0.78	1.82	-2.29	-1.09
	CO153	Connected member	15.01	-0.23	1.39	-1.66	0.49
	CO153	Connected member	-18.51	-0.57	-0.02	0.2	-0.73
52	CO153	Connected member	-70.9	-0.37	0.67	-0.6	0.02
	CO154	Main member	-41.6	-0.36	-0.3	0.73	-0.13
	CO154	Connected member	3.57	-0.78	1.78	-2.17	-1.11
	CO154	Connected member	13.39	-0.22	1.03	-1	0.51
52	CO154	Connected member	-9.65	-0.58	0.08	0.06	-0.76
	CO154	Connected member	-38.59	-0.34	0.63	-0.5	0.02
	CO155	Main member	-41.12	-0.36	-0.3	0.74	-0.11
	CO155	Connected member	3.53	-0.77	1.79	-2.18	-1.09
52	CO155	Connected member	13.18	-0.22	1.02	-0.99	0.49
	CO155	Connected member	-9.56	-0.57	0.08	0.06	-0.74
	CO155	Connected member	-38.07	-0.34	0.64	-0.51	0.04
	CO156	Main member	-3.61	-0.34	-0.21	1.27	-0.1
52	CO156	Connected member	7.32	-0.78	1.77	-2.08	-1.11
	CO156	Connected member	8.66	-0.22	0.65	-0.31	0.49
	CO156	Connected member	-1.09	-0.58	0.19	-0.09	-0.76
	CO156	Connected member	-5.88	-0.32	0.6	-0.41	0.07
52	CO157	Main member	-6.76	-0.3	0.84	3.71	0.03
	CO157	Connected member	11.76	-0.54	2.86	-3.66	-0.6
	CO157	Connected member	15.18	-0.26	0.5	0.11	0.19
	CO157	Connected member	-3.79	-0.29	0.29	-0.01	-0.34
52	CO157	Connected member	-9.7	-0.29	0.48	-0.05	0.05
	CO158	Main member	-31.44	-0.02	-2.71	-4.68	0.12
	CO158	Connected member	9.72	0.1	-0.78	1.56	0.35
	CO158	Connected member	18.03	-0.1	1.42	-1.91	-0.28
	CO158	Connected member	-5.14	0.2	-0.23	0.01	0.28
	CO158	Connected member	-37.87	-0.02	0.9	-1.22	0.03



::LAV/team::

Page: 244/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO159	Main member	-33.84	-0.02	-2.68	-4.52	0.12
	CO159	Connected member	24.02	0.11	-0.76	1.53	0.35
	CO159	Connected member	32.04	-0.1	1.48	-1.88	-0.28
52	CO159	Connected member	-12.33	0.21	-0.31	0.12	0.29
	CO159	Connected member	-43.14	-0.02	0.94	-1.23	0.03
	CO160	Main member	-46.12	-0.02	-2.73	-4.81	0.12
52	CO160	Connected member	17.11	0.1	-0.76	1.5	0.36
	CO160	Connected member	28.21	-0.1	1.6	-2.15	-0.28
	CO160	Connected member	-12.46	0.21	-0.32	0.12	0.29
52	CO160	Connected member	-52.48	-0.02	0.94	-1.27	0.03
	CO161	Main member	-6.87	-0.02	-2.61	-4.12	0.12
	CO161	Connected member	23.37	0.1	-0.79	1.61	0.34
52	CO161	Connected member	25.71	-0.1	1.19	-1.38	-0.27
	CO161	Connected member	-4.64	0.2	-0.21	-0.01	0.28
	CO161	Connected member	-19.38	-0.02	0.9	-1.13	0.03
52	CO162	Main member	-75.93	-0.39	-0.36	0.35	-0.11
	CO162	Connected member	0.42	-0.78	1.82	-2.28	-1.09
	CO162	Connected member	16.96	-0.23	1.34	-1.54	0.49
52	CO162	Connected member	-18.46	-0.57	-0.02	0.2	-0.73
	CO162	Connected member	-66.84	-0.36	0.67	-0.58	0.02
	CO163	Main member	-36.09	-0.35	-0.28	0.85	-0.14
52	CO163	Connected member	6.85	-0.78	1.78	-2.16	-1.11
	CO163	Connected member	15.34	-0.21	0.98	-0.88	0.51
	CO163	Connected member	-9.6	-0.58	0.08	0.06	-0.76
52	CO163	Connected member	-34.54	-0.34	0.63	-0.48	0.02
	CO164	Main member	-35.61	-0.36	-0.28	0.87	-0.11
	CO164	Connected member	6.81	-0.78	1.79	-2.17	-1.09
52	CO164	Connected member	15.14	-0.22	0.97	-0.87	0.49
	CO164	Connected member	-9.51	-0.57	0.08	0.06	-0.74
	CO164	Connected member	-34.01	-0.34	0.64	-0.49	0.03
52	CO165	Main member	1.89	-0.34	-0.19	1.4	-0.1
	CO165	Connected member	10.59	-0.78	1.77	-2.07	-1.11
	CO165	Connected member	10.61	-0.22	0.6	-0.19	0.49
52	CO165	Connected member	-1.05	-0.58	0.2	-0.09	-0.76
	CO165	Connected member	-1.83	-0.32	0.6	-0.39	0.06
	CO166	Main member	-1.25	-0.29	0.86	3.83	0.03
52	CO166	Connected member	15.03	-0.54	2.87	-3.64	-0.6
	CO166	Connected member	17.13	-0.26	0.45	0.23	0.19
	CO166	Connected member	-3.74	-0.29	0.29	-0.01	-0.34
52	CO166	Connected member	-5.64	-0.29	0.48	-0.03	0.05
	CO167	Main member	-25.94	-0.02	-2.69	-4.56	0.12
	CO167	Connected member	12.99	0.1	-0.78	1.57	0.35
52	CO167	Connected member	19.98	-0.1	1.37	-1.79	-0.28
	CO167	Connected member	-5.09	0.2	-0.23	0.01	0.28
	CO167	Connected member	-33.81	-0.02	0.9	-1.2	0.03
52	CO168	Main member	-28.33	-0.02	-2.66	-4.4	0.12
	CO168	Connected member	27.29	0.11	-0.76	1.54	0.35
	CO168	Connected member	33.99	-0.1	1.43	-1.77	-0.28
52	CO168	Connected member	-12.29	0.21	-0.31	0.12	0.29
	CO168	Connected member	-39.09	-0.02	0.94	-1.21	0.02
	CO169	Main member	-29.33	-0.02	-2.7	-4.59	0.11
52	CO169	Connected member	15.36	0.11	-0.78	1.57	0.36
	CO169	Connected member	22.65	-0.1	1.41	-1.84	-0.28
	CO169	Connected member	-7.4	0.21	-0.24	0.02	0.29
52	CO169	Connected member	-36.92	-0.02	0.9	-1.2	0.02
	CO170	Main member	9.92	-0.02	-2.57	-3.9	0.11
	CO170	Connected member	21.62	0.1	-0.81	1.68	0.34
52	CO170	Connected member	20.16	-0.1	1	-1.06	-0.27
	CO170	Connected member	0.41	0.2	-0.14	-0.11	0.27
	CO170	Connected member	-3.82	-0.02	0.87	-1.06	0.03
52	CO171	Main member	-59.11	-0.38	-0.33	0.53	-0.11
	CO171	Connected member	-1.31	-0.77	1.79	-2.2	-1.08
	CO171	Connected member	11.41	-0.23	1.16	-1.24	0.48
52	CO171	Connected member	-13.4	-0.57	0.06	0.09	-0.73
	CO171	Connected member	-51.26	-0.35	0.64	-0.52	0.03
	CO172	Main member	-19.27	-0.35	-0.26	1.04	-0.13
52	CO172	Connected member	5.12	-0.77	1.75	-2.09	-1.1
	CO172	Connected member	9.79	-0.21	0.79	-0.58	0.5
	CO172	Connected member	-4.54	-0.57	0.16	-0.04	-0.76
52	CO172	Connected member	-18.96	-0.33	0.6	-0.42	0.03
	CO173	Main member	-18.79	-0.35	-0.25	1.05	-0.11
	CO173	Connected member	5.08	-0.77	1.76	-2.09	-1.09
52	CO173	Connected member	9.59	-0.22	0.79	-0.57	0.48
	CO173	Connected member	-4.45	-0.57	0.16	-0.04	-0.74
	CO173	Connected member	-18.43	-0.33	0.61	-0.43	0.04
52	CO174	Main member	18.71	-0.33	-0.16	1.59	-0.1
	CO174	Connected member	8.86	-0.78	1.74	-2	-1.1
	CO174	Connected member	5.06	-0.22	0.42	0.11	0.48
52	CO174	Connected member	4.01	-0.58	0.27	-0.2	-0.76
	CO174	Connected member	13.75	-0.31	0.57	-0.32	0.07
	CO175	Main member	15.57	-0.29	0.89	4.01	0.03
52	CO175	Connected member	13.3	-0.54	2.83	-3.57	-0.59
	CO175	Connected member	11.58	-0.26	0.27	0.53	0.19
	CO175	Connected member	1.32	-0.29	0.37	-0.12	-0.34
52	CO175	Connected member	9.94	-0.28	0.45	0.03	0.06
	CO176	Main member	-9.14	-0.02	-2.65	-4.34	0.11
	CO176	Connected member	11.24	0.1	-0.81	1.64	0.35
52	CO176	Connected member	14.42	-0.1	1.19	-1.47	-0.28
	CO176	Connected member	-0.04	0.2	-0.15	-0.09	0.28
	CO176	Connected member	-18.24	-0.02	0.87	-1.13	0.03
52	CO177	Main member	-11.54	-0.02	-2.62	-4.18	0.11
	CO177	Connected member	25.53	0.11	-0.78	1.6	0.35
	CO177	Connected member	28.43	-0.1	1.25	-1.45	-0.28
	CO177	Connected member	-7.24	0.21	-0.23	0.02	0.29



::LAV/team::

Page: 245/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO177	Connected member	-23.52	-0.02	0.91	-1.14	0.02
	CO178	Main member	-23.82	-0.02	-2.67	-4.46	0.11
	CO178	Connected member	18.63	0.11	-0.78	1.58	0.36
	CO178	Connected member	24.6	-0.1	1.36	-1.72	-0.28
	CO178	Connected member	-7.36	0.21	-0.24	0.02	0.29
52	CO178	Connected member	-32.86	-0.02	0.9	-1.18	0.02
	CO179	Main member	15.43	-0.02	-2.55	-3.77	0.11
	CO179	Connected member	24.88	0.1	-0.81	1.69	0.34
	CO179	Connected member	22.1	-0.1	0.96	-0.94	-0.27
	CO179	Connected member	0.45	0.2	-0.14	-0.11	0.27
52	CO179	Connected member	0.24	-0.02	0.87	-1.04	0.03
	CO180	Main member	-53.59	-0.37	-0.31	0.65	-0.11
	CO180	Connected member	1.97	-0.77	1.79	-2.19	-1.08
	CO180	Connected member	13.36	-0.23	1.11	-1.12	0.49
	CO180	Connected member	-13.36	-0.57	0.06	0.09	-0.73
52	CO180	Connected member	-47.2	-0.35	0.64	-0.5	0.03
	CO181	Main member	-13.76	-0.34	-0.23	1.17	-0.13
	CO181	Connected member	8.39	-0.77	1.75	-2.07	-1.1
	CO181	Connected member	11.74	-0.21	0.75	-0.46	0.5
	CO181	Connected member	-4.49	-0.57	0.16	-0.05	-0.76
52	CO181	Connected member	-14.9	-0.33	0.6	-0.4	0.03
	CO182	Main member	-13.28	-0.35	-0.23	1.18	-0.11
	CO182	Connected member	8.35	-0.77	1.76	-2.08	-1.09
	CO182	Connected member	11.54	-0.22	0.74	-0.45	0.48
	CO182	Connected member	-4.4	-0.57	0.16	-0.05	-0.75
52	CO182	Connected member	-14.38	-0.33	0.61	-0.41	0.04
	CO183	Main member	24.22	-0.33	-0.13	1.71	-0.1
	CO183	Connected member	12.13	-0.78	1.74	-1.99	-1.1
	CO183	Connected member	7.01	-0.22	0.37	0.23	0.48
	CO183	Connected member	4.06	-0.58	0.27	-0.2	-0.77
52	CO183	Connected member	17.81	-0.31	0.57	-0.3	0.07
	CO184	Main member	21.08	-0.28	0.91	4.13	0.02
	CO184	Connected member	16.57	-0.54	2.84	-3.56	-0.59
	CO184	Connected member	13.53	-0.26	0.22	0.65	0.19
	CO184	Connected member	1.37	-0.29	0.37	-0.12	-0.34
52	CO184	Connected member	13.99	-0.28	0.45	0.05	0.05
	CO185	Main member	-3.63	-0.02	-2.63	-4.21	0.11
	CO185	Connected member	14.51	0.1	-0.81	1.65	0.35
	CO185	Connected member	16.37	-0.1	1.14	-1.35	-0.28
	CO185	Connected member	0.01	0.2	-0.15	-0.09	0.28
52	CO185	Connected member	-14.19	-0.02	0.87	-1.11	0.03
	CO186	Main member	-6.04	-0.02	-2.6	-4.05	0.11
	CO186	Connected member	28.8	0.11	-0.78	1.61	0.35
	CO186	Connected member	30.38	-0.1	1.2	-1.33	-0.27
	CO186	Connected member	-7.19	0.21	-0.23	0.02	0.29
52	CO186	Connected member	-19.47	-0.02	0.91	-1.12	0.02
	CO187	Main member	-23.26	-0.02	-2.68	-4.49	0.11
	CO187	Connected member	15.92	0.11	-0.79	1.59	0.36
	CO187	Connected member	21.88	-0.1	1.35	-1.72	-0.28
	CO187	Connected member	-6.01	0.21	-0.22	0	0.29
52	CO187	Connected member	-31.71	-0.02	0.9	-1.18	0.02
	CO188	Main member	15.99	-0.02	-2.56	-3.81	0.11
	CO188	Connected member	22.18	0.1	-0.82	1.7	0.34
	CO188	Connected member	19.39	-0.1	0.94	-0.94	-0.27
	CO188	Connected member	1.8	0.2	-0.12	-0.13	0.27
52	CO188	Connected member	1.39	-0.02	0.86	-1.03	0.03
	CO189	Main member	-53.02	-0.37	-0.32	0.61	-0.1
	CO189	Connected member	-0.74	-0.77	1.79	-2.18	-1.08
	CO189	Connected member	10.64	-0.23	1.1	-1.13	0.48
	CO189	Connected member	-12.01	-0.56	0.08	0.06	-0.73
52	CO189	Connected member	-46.05	-0.35	0.63	-0.5	0.03
	CO190	Main member	-13.19	-0.34	-0.24	1.13	-0.13
	CO190	Connected member	5.69	-0.77	1.74	-2.06	-1.1
	CO190	Connected member	9.02	-0.21	0.73	-0.47	0.5
	CO190	Connected member	-3.14	-0.57	0.18	-0.07	-0.76
52	CO190	Connected member	-13.75	-0.33	0.59	-0.4	0.03
	CO191	Main member	-12.71	-0.35	-0.24	1.14	-0.11
	CO191	Connected member	5.65	-0.77	1.75	-2.07	-1.09
	CO191	Connected member	8.82	-0.22	0.73	-0.46	0.48
	CO191	Connected member	-3.05	-0.57	0.18	-0.07	-0.74
52	CO191	Connected member	-13.22	-0.33	0.6	-0.4	0.05
	CO192	Main member	24.79	-0.33	-0.14	1.68	-0.1
	CO192	Connected member	9.43	-0.78	1.73	-1.97	-1.1
	CO192	Connected member	4.3	-0.22	0.36	0.22	0.48
	CO192	Connected member	5.41	-0.58	0.29	-0.22	-0.76
52	CO192	Connected member	18.96	-0.31	0.56	-0.3	0.08
	CO193	Main member	21.65	-0.28	0.9	4.09	0.03
	CO193	Connected member	13.87	-0.54	2.83	-3.55	-0.59
	CO193	Connected member	10.82	-0.26	0.21	0.64	0.18
	CO193	Connected member	2.72	-0.29	0.39	-0.15	-0.34
52	CO193	Connected member	15.15	-0.28	0.44	0.05	0.06
	CO194	Main member	-3.07	-0.02	-2.64	-4.24	0.11
	CO194	Connected member	11.8	0.1	-0.82	1.66	0.35
	CO194	Connected member	13.65	-0.1	1.12	-1.36	-0.28
	CO194	Connected member	1.36	0.2	-0.13	-0.12	0.28
52	CO194	Connected member	-13.03	-0.02	0.86	-1.11	0.03
	CO195	Main member	-5.47	-0.02	-2.61	-4.08	0.11
	CO195	Connected member	26.09	0.11	-0.79	1.62	0.35
	CO195	Connected member	27.66	-0.1	1.18	-1.33	-0.28
	CO195	Connected member	-5.84	0.21	-0.21	-0.01	0.29
52	CO195	Connected member	-18.31	-0.02	0.9	-1.11	0.02
	CO196	Main member	-17.75	-0.02	-2.66	-4.36	0.11
	CO196	Connected member	19.19	0.11	-0.79	1.6	0.36
		Connected member	23.83	-0.1	1.3	-1.6	-0.28



::LAV/team::

Page: 246/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO196	Connected member	-5.96	0.21	-0.22	0	0.29
	CO196	Connected member	-27.65	-0.02	0.9	-1.16	0.02
	CO197	Main member	21.5	-0.02	-2.53	-3.68	0.11
52	CO197	Connected member	25.44	0.1	-0.82	1.71	0.34
	CO197	Connected member	21.33	-0.1	0.89	-0.82	-0.27
	CO197	Connected member	1.85	0.2	-0.12	-0.13	0.27
52	CO197	Connected member	5.44	-0.02	0.86	-1.01	0.03
	CO198	Main member	-47.51	-0.37	-0.3	0.74	-0.11
	CO198	Connected member	2.54	-0.77	1.79	-2.17	-1.08
52	CO198	Connected member	12.59	-0.23	1.05	-1.01	0.48
	CO198	Connected member	-11.96	-0.57	0.08	0.06	-0.73
	CO198	Connected member	-41.99	-0.35	0.63	-0.48	0.03
52	CO199	Main member	-7.68	-0.34	-0.22	1.25	-0.13
	CO199	Connected member	8.96	-0.77	1.75	-2.05	-1.1
	CO199	Connected member	10.97	-0.21	0.69	-0.35	0.5
52	CO199	Connected member	-3.09	-0.57	0.18	-0.07	-0.76
	CO199	Connected member	-9.69	-0.33	0.59	-0.38	0.03
	CO200	Main member	-7.2	-0.35	-0.22	1.26	-0.11
52	CO200	Connected member	8.92	-0.77	1.75	-2.06	-1.09
	CO200	Connected member	10.77	-0.22	0.68	-0.34	0.48
	CO200	Connected member	-3	-0.57	0.18	-0.07	-0.75
52	CO200	Connected member	-9.17	-0.33	0.6	-0.39	0.05
	CO201	Main member	30.3	-0.33	-0.12	1.8	-0.1
	CO201	Connected member	12.69	-0.78	1.73	-1.96	-1.1
52	CO201	Connected member	6.25	-0.22	0.31	0.34	0.48
	CO201	Connected member	5.46	-0.58	0.29	-0.22	-0.77
	CO201	Connected member	23.02	-0.31	0.56	-0.28	0.08
52	CO202	Main member	27.16	-0.28	0.93	4.21	0.02
	CO202	Connected member	17.13	-0.54	2.83	-3.53	-0.59
	CO202	Connected member	12.77	-0.26	0.16	0.76	0.18
52	CO202	Connected member	2.77	-0.29	0.39	-0.15	-0.34
	CO202	Connected member	19.2	-0.27	0.44	0.07	0.06
	CO203	Main member	2.44	-0.02	-2.61	-4.11	0.11
52	CO203	Connected member	15.07	0.1	-0.82	1.67	0.35
	CO203	Connected member	15.6	-0.1	1.07	-1.24	-0.28
	CO203	Connected member	1.41	0.2	-0.13	-0.12	0.28
52	CO203	Connected member	-8.98	-0.02	0.86	-1.09	0.03
	CO204	Main member	0.03	-0.02	-2.58	-3.95	0.11
	CO204	Connected member	29.36	0.11	-0.79	1.63	0.35
52	CO204	Connected member	29.61	-0.1	1.13	-1.21	-0.27
	CO204	Connected member	-5.8	0.21	-0.21	-0.01	0.29
	CO204	Connected member	-14.26	-0.02	0.9	-1.09	0.02
52	CO205	Main member	18.6	-0.03	-3.3	-5.41	0.17
	CO205	Connected member	31.67	0.18	-1.63	2.86	0.58
	CO205	Connected member	29.54	-0.16	1.1	-1.23	-0.45
52	CO205	Connected member	1.06	0.34	-0.25	-0.09	0.47
	CO205	Connected member	-2.63	-0.04	0.94	-1.22	0.02
	CO206	Main member	83.94	-0.03	-3.05	-4.21	0.17
52	CO206	Connected member	42.01	0.17	-1.68	3.03	0.55
	CO206	Connected member	25.36	-0.15	0.41	0.09	-0.43
	CO206	Connected member	14.07	0.32	-0.09	-0.3	0.44
52	CO206	Connected member	52.49	-0.03	0.86	-0.97	0.03
	CO207	Main member	-30.9	-0.6	0.6	3.01	-0.19
	CO207	Connected member	3.99	-1.29	2.67	-3.4	-1.81
52	CO207	Connected member	10.85	-0.37	0.7	-0.28	0.82
	CO207	Connected member	-8.91	-0.95	0.26	0	-1.23
	CO207	Connected member	-26.46	-0.57	0.5	-0.12	0.06
52	CO208	Main member	35.47	-0.52	0.75	3.85	-0.23
	CO208	Connected member	14.68	-1.28	2.6	-3.2	-1.84
	CO208	Connected member	8.15	-0.34	0.09	0.82	0.83
52	CO208	Connected member	5.87	-0.95	0.42	-0.23	-1.28
	CO208	Connected member	27.36	-0.51	0.42	0.06	0.07
	CO209	Main member	36.27	-0.54	0.76	3.86	-0.19
52	CO209	Connected member	14.62	-1.28	2.61	-3.21	-1.81
	CO209	Connected member	7.82	-0.35	0.09	0.83	0.81
	CO209	Connected member	6.02	-0.95	0.42	-0.23	-1.25
52	CO209	Connected member	28.23	-0.51	0.43	0.05	0.09
	CO210	Main member	98.76	-0.49	0.94	4.75	-0.17
	CO210	Connected member	20.89	-1.28	2.58	-3.05	-1.83
52	CO210	Connected member	0.29	-0.35	-0.52	1.96	0.78
	CO210	Connected member	20.12	-0.97	0.61	-0.49	-1.29
	CO210	Connected member	81.86	-0.46	0.36	0.22	0.16
52	CO211	Main member	93.54	-0.42	2.66	8.69	0.03
	CO211	Connected member	28.29	-0.88	4.4	-5.64	-0.98
	CO211	Connected member	11.14	-0.41	-0.77	2.63	0.31
52	CO211	Connected member	15.65	-0.48	0.77	-0.37	-0.59
	CO211	Connected member	75.51	-0.41	0.15	0.79	0.11
	CO212	Main member	52.23	-0.03	-3.21	-4.96	0.17
52	CO212	Connected member	24.78	0.17	-1.66	2.97	0.56
	CO212	Connected member	15.83	-0.15	0.72	-0.61	-0.44
	CO212	Connected member	13.34	0.33	-0.11	-0.28	0.45
52	CO212	Connected member	28.48	-0.03	0.88	-1.1	0.03
	CO213	Main member	48.2	-0.03	-3.16	-4.7	0.17
	CO213	Connected member	48.57	0.18	-1.63	2.92	0.57
52	CO213	Connected member	39.15	-0.15	0.81	-0.58	-0.44
	CO213	Connected member	1.33	0.34	-0.24	-0.1	0.47
	CO213	Connected member	19.67	-0.04	0.93	-1.11	0.02
52	CO214	Main member	-3.68	-0.03	-3.36	-5.78	0.18
	CO214	Connected member	30.18	0.18	-1.6	2.79	0.58
	CO214	Connected member	33.16	-0.16	1.34	-1.67	-0.45
52	CO214	Connected member	-4.03	0.35	-0.33	0	0.48
	CO214	Connected member	-22.24	-0.04	0.97	-1.32	0.03
	CO215	Main member	61.68	-0.03	-3.13	-4.58	0.18
	CO215	Connected member	40.53	0.17	-1.65	2.96	0.55



::LAV/team::

Page: 247/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO215	Connected member	28.98	-0.15	0.65	-0.36	-0.43
	CO215	Connected member	8.97	0.32	-0.16	-0.2	0.45
	CO215	Connected member	32.88	-0.03	0.9	-1.06	0.04
52	CO216	Main member	-53.24	-0.62	0.56	2.71	-0.19
	CO216	Connected member	2.45	-1.29	2.7	-3.49	-1.82
	CO216	Connected member	14.45	-0.37	0.93	-0.69	0.84
52	CO216	Connected member	-14.02	-0.95	0.18	0.11	-1.23
	CO216	Connected member	-46.1	-0.59	0.53	-0.2	0.04
	CO217	Main member	13.15	-0.54	0.7	3.54	-0.23
52	CO217	Connected member	13.15	-1.29	2.63	-3.29	-1.84
	CO217	Connected member	11.74	-0.34	0.32	0.4	0.85
	CO217	Connected member	0.76	-0.96	0.34	-0.12	-1.28
52	CO217	Connected member	7.73	-0.53	0.46	-0.03	0.05
	CO218	Main member	13.95	-0.55	0.7	3.56	-0.19
	CO218	Connected member	13.09	-1.28	2.64	-3.3	-1.82
52	CO218	Connected member	11.41	-0.35	0.32	0.42	0.82
	CO218	Connected member	0.91	-0.95	0.34	-0.12	-1.25
	CO218	Connected member	8.6	-0.53	0.47	-0.04	0.08
52	CO219	Main member	76.44	-0.5	0.88	4.44	-0.17
	CO219	Connected member	19.36	-1.29	2.61	-3.13	-1.83
	CO219	Connected member	3.88	-0.35	-0.29	1.54	0.8
52	CO219	Connected member	15.02	-0.97	0.53	-0.38	-1.29
	CO219	Connected member	62.23	-0.48	0.4	0.14	0.14
	CO220	Main member	71.22	-0.44	2.6	8.4	0.03
52	CO220	Connected member	26.77	-0.88	4.43	-5.73	-0.99
	CO220	Connected member	14.73	-0.41	-0.55	2.22	0.32
	CO220	Connected member	10.54	-0.48	0.69	-0.26	-0.58
52	CO220	Connected member	55.88	-0.43	0.19	0.71	0.1
	CO221	Main member	29.95	-0.03	-3.28	-5.33	0.18
	CO221	Connected member	23.29	0.17	-1.64	2.9	0.57
52	CO221	Connected member	19.44	-0.16	0.96	-1.05	-0.44
	CO221	Connected member	8.24	0.33	-0.18	-0.19	0.46
	CO221	Connected member	8.87	-0.03	0.91	-1.19	0.04
52	CO222	Main member	25.93	-0.03	-3.23	-5.07	0.18
	CO222	Connected member	47.09	0.18	-1.61	2.84	0.57
	CO222	Connected member	42.77	-0.16	1.06	-1.02	-0.44
52	CO222	Connected member	-3.76	0.34	-0.32	0	0.47
	CO222	Connected member	0.06	-0.04	0.97	-1.21	0.02
	CO223	Main member	-9.74	-0.03	-3.38	-5.87	0.18
52	CO223	Connected member	29.62	0.18	-1.59	2.77	0.58
	CO223	Connected member	33.93	-0.16	1.4	-1.79	-0.45
	CO223	Connected member	-5.42	0.35	-0.35	0.03	0.48
52	CO223	Connected member	-27.45	-0.04	0.98	-1.34	0.03
	CO224	Main member	55.61	-0.03	-3.15	-4.69	0.18
	CO224	Connected member	39.98	0.17	-1.65	2.94	0.55
52	CO224	Connected member	29.75	-0.15	0.72	-0.47	-0.43
	CO224	Connected member	7.58	0.32	-0.18	-0.18	0.45
	CO224	Connected member	27.68	-0.03	0.91	-1.09	0.04
52	CO225	Main member	-59.32	-0.62	0.55	2.63	-0.2
	CO225	Connected member	1.88	-1.29	2.71	-3.52	-1.82
	CO225	Connected member	15.21	-0.37	0.99	-0.8	0.84
52	CO225	Connected member	-15.41	-0.95	0.16	0.13	-1.23
	CO225	Connected member	-51.31	-0.59	0.54	-0.22	0.03
	CO226	Main member	7.07	-0.55	0.68	3.46	-0.23
52	CO226	Connected member	12.58	-1.29	2.64	-3.31	-1.84
	CO226	Connected member	12.51	-0.34	0.38	0.29	0.85
	CO226	Connected member	-0.64	-0.96	0.32	-0.1	-1.28
52	CO226	Connected member	2.52	-0.54	0.47	-0.05	0.05
	CO227	Main member	7.87	-0.56	0.69	3.47	-0.2
	CO227	Connected member	12.52	-1.29	2.65	-3.32	-1.82
52	CO227	Connected member	12.18	-0.35	0.38	0.31	0.83
	CO227	Connected member	-0.49	-0.95	0.32	-0.1	-1.25
	CO227	Connected member	3.39	-0.54	0.48	-0.06	0.07
52	CO228	Main member	70.37	-0.51	0.86	4.35	-0.17
	CO228	Connected member	18.8	-1.29	2.62	-3.16	-1.84
	CO228	Connected member	4.64	-0.35	-0.23	1.43	0.8
52	CO228	Connected member	13.62	-0.97	0.51	-0.35	-1.28
	CO228	Connected member	57.02	-0.48	0.41	0.12	0.14
	CO229	Main member	65.14	-0.44	2.59	8.33	0.03
52	CO229	Connected member	26.2	-0.88	4.44	-5.76	-0.99
	CO229	Connected member	15.5	-0.41	-0.49	2.11	0.32
	CO229	Connected member	9.14	-0.48	0.67	-0.23	-0.58
52	CO229	Connected member	50.67	-0.43	0.2	0.69	0.1
	CO230	Main member	23.88	-0.03	-3.3	-5.43	0.18
	CO230	Connected member	22.73	0.17	-1.63	2.88	0.57
52	CO230	Connected member	20.22	-0.16	1.02	-1.17	-0.44
	CO230	Connected member	6.85	0.33	-0.2	-0.16	0.46
	CO230	Connected member	3.66	-0.03	0.92	-1.22	0.04
52	CO231	Main member	19.87	-0.03	-3.25	-5.17	0.18
	CO231	Connected member	46.54	0.18	-1.6	2.82	0.57
	CO231	Connected member	43.55	-0.16	1.12	-1.14	-0.44
52	CO231	Connected member	-5.15	0.34	-0.34	0.02	0.47
	CO231	Connected member	-5.14	-0.04	0.98	-1.23	0.03
	CO232	Main member	12.54	-0.03	-3.31	-5.51	0.18
52	CO232	Connected member	31.11	0.18	-1.62	2.84	0.58
	CO232	Connected member	30.31	-0.16	1.16	-1.35	-0.45
	CO232	Connected member	-0.33	0.35	-0.27	-0.07	0.47
52	CO232	Connected member	-7.83	-0.04	0.95	-1.25	0.03
	CO233	Main member	77.88	-0.03	-3.07	-4.31	0.17
	CO233	Connected member	41.46	0.17	-1.67	3.02	0.55
52	CO233	Connected member	26.13	-0.15	0.48	-0.03	-0.43
	CO233	Connected member	12.67	0.32	-0.11	-0.28	0.44
	CO233	Connected member	47.28	-0.03	0.87	-0.99	0.03
52	CO234	Main member	-36.98	-0.6	0.59	2.93	-0.19



::LAVteam::

Page: 248/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO234	Connected member	3.42	-1.29	2.68	-3.43	-1.81
	CO234	Connected member	11.61	-0.37	0.76	-0.39	0.82
	CO234	Connected member	-10.3	-0.95	0.24	0.03	-1.23
52	CO234	Connected member	-31.67	-0.57	0.51	-0.14	0.05
	CO235	Main member	29.4	-0.53	0.74	3.76	-0.23
	CO235	Connected member	14.12	-1.28	2.61	-3.23	-1.84
52	CO235	Connected member	8.92	-0.34	0.15	0.71	0.83
	CO235	Connected member	4.47	-0.95	0.4	-0.2	-1.28
	CO235	Connected member	22.15	-0.52	0.43	0.03	0.06
52	CO236	Main member	30.19	-0.54	0.74	3.78	-0.19
	CO236	Connected member	14.05	-1.28	2.62	-3.24	-1.81
	CO236	Connected member	8.58	-0.35	0.15	0.72	0.81
52	CO236	Connected member	4.62	-0.95	0.4	-0.2	-1.25
	CO236	Connected member	23.02	-0.52	0.44	0.02	0.09
	CO237	Main member	92.68	-0.49	0.92	4.67	-0.17
52	CO237	Connected member	20.32	-1.28	2.59	-3.07	-1.83
	CO237	Connected member	1.06	-0.35	-0.46	1.85	0.79
	CO237	Connected member	18.73	-0.97	0.59	-0.46	-1.29
52	CO237	Connected member	76.65	-0.46	0.37	0.2	0.16
	CO238	Main member	87.46	-0.43	2.65	8.61	0.03
	CO238	Connected member	27.73	-0.88	4.41	-5.67	-0.98
52	CO238	Connected member	11.91	-0.41	-0.71	2.52	0.31
	CO238	Connected member	14.25	-0.48	0.75	-0.34	-0.58
	CO238	Connected member	70.3	-0.42	0.16	0.77	0.11
52	CO239	Main member	46.16	-0.03	-3.23	-5.06	0.17
	CO239	Connected member	24.22	0.17	-1.66	2.95	0.56
	CO239	Connected member	16.6	-0.15	0.78	-0.73	-0.44
52	CO239	Connected member	11.94	0.33	-0.13	-0.26	0.45
	CO239	Connected member	23.28	-0.03	0.89	-1.13	0.04
	CO240	Main member	42.14	-0.03	-3.18	-4.8	0.17
52	CO240	Connected member	48.02	0.18	-1.63	2.9	0.57
	CO240	Connected member	39.92	-0.16	0.88	-0.69	-0.44
	CO240	Connected member	-0.06	0.34	-0.26	-0.08	0.47
52	CO240	Connected member	14.46	-0.04	0.94	-1.14	0.02
	CO241	Main member	-14.91	-0.03	-3.4	-5.96	0.19
	CO241	Connected member	29.14	0.18	-1.59	2.76	0.58
52	CO241	Connected member	34.59	-0.16	1.45	-1.89	-0.45
	CO241	Connected member	-6.61	0.35	-0.37	0.05	0.48
	CO241	Connected member	-31.88	-0.04	0.99	-1.36	0.03
52	CO242	Main member	50.45	-0.03	-3.17	-4.77	0.18
	CO242	Connected member	39.51	0.17	-1.64	2.93	0.55
	CO242	Connected member	30.41	-0.15	0.77	-0.57	-0.43
52	CO242	Connected member	6.4	0.32	-0.2	-0.16	0.45
	CO242	Connected member	23.25	-0.03	0.92	-1.11	0.04
	CO243	Main member	-64.5	-0.63	0.54	2.56	-0.2
52	CO243	Connected member	1.39	-1.29	2.72	-3.54	-1.82
	CO243	Connected member	15.87	-0.37	1.04	-0.9	0.84
	CO243	Connected member	-16.6	-0.95	0.14	0.16	-1.23
52	CO243	Connected member	-55.75	-0.59	0.55	-0.23	0.03
	CO244	Main member	1.89	-0.55	0.67	3.39	-0.23
	CO244	Connected member	12.1	-1.29	2.65	-3.33	-1.85
52	CO244	Connected member	13.16	-0.34	0.43	0.2	0.85
	CO244	Connected member	-1.83	-0.96	0.31	-0.07	-1.27
	CO244	Connected member	-1.91	-0.54	0.48	-0.07	0.04
52	CO245	Main member	2.69	-0.56	0.67	3.4	-0.2
	CO245	Connected member	12.03	-1.29	2.66	-3.34	-1.82
	CO245	Connected member	12.83	-0.35	0.43	0.21	0.83
52	CO245	Connected member	-1.68	-0.95	0.3	-0.07	-1.25
	CO245	Connected member	-1.04	-0.54	0.49	-0.08	0.07
	CO246	Main member	65.19	-0.51	0.84	4.28	-0.17
52	CO246	Connected member	18.32	-1.29	2.62	-3.18	-1.84
	CO246	Connected member	5.3	-0.35	-0.18	1.34	0.81
	CO246	Connected member	12.43	-0.97	0.49	-0.33	-1.28
52	CO246	Connected member	52.59	-0.48	0.42	0.1	0.14
	CO247	Main member	59.96	-0.44	2.57	8.26	0.03
	CO247	Connected member	25.72	-0.88	4.45	-5.78	-0.99
52	CO247	Connected member	16.15	-0.41	-0.44	2.02	0.33
	CO247	Connected member	7.95	-0.48	0.65	-0.21	-0.58
	CO247	Connected member	46.23	-0.43	0.21	0.67	0.1
52	CO248	Main member	18.71	-0.03	-3.31	-5.51	0.18
	CO248	Connected member	22.25	0.17	-1.63	2.86	0.57
	CO248	Connected member	20.87	-0.16	1.08	-1.27	-0.44
52	CO248	Connected member	5.66	0.33	-0.22	-0.14	0.46
	CO248	Connected member	-0.77	-0.03	0.93	-1.24	0.04
	CO249	Main member	14.71	-0.03	-3.26	-5.26	0.18
52	CO249	Connected member	46.07	0.18	-1.59	2.81	0.57
	CO249	Connected member	44.21	-0.16	1.17	-1.24	-0.44
	CO249	Connected member	-6.34	0.34	-0.35	0.04	0.47
52	CO249	Connected member	-9.57	-0.04	0.99	-1.25	0.03
	CO250	Main member	-12.16	-0.03	-3.38	-5.89	0.19
	CO250	Connected member	30.78	0.18	-1.59	2.76	0.58
52	CO250	Connected member	35.56	-0.16	1.43	-1.83	-0.45
	CO250	Connected member	-6.59	0.35	-0.37	0.05	0.48
	CO250	Connected member	-29.85	-0.04	0.99	-1.35	0.03
52	CO251	Main member	53.19	-0.03	-3.15	-4.7	0.18
	CO251	Connected member	41.14	0.17	-1.64	2.93	0.55
	CO251	Connected member	31.38	-0.15	0.75	-0.51	-0.43
52	CO251	Connected member	6.42	0.32	-0.2	-0.16	0.45
	CO251	Connected member	25.27	-0.03	0.92	-1.1	0.04
	CO252	Main member	-61.74	-0.62	0.55	2.62	-0.2
52	CO252	Connected member	3.03	-1.29	2.72	-3.53	-1.82
	CO252	Connected member	16.84	-0.37	1.01	-0.84	0.84
	CO252	Connected member	-16.58	-0.95	0.14	0.16	-1.23
	CO252	Connected member	-53.72	-0.59	0.55	-0.23	0.03



::LAVteam::

Page: 249/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO253	Main member	4.65	-0.55	0.68	3.45	-0.24
	CO253	Connected member	13.73	-1.29	2.65	-3.33	-1.85
	CO253	Connected member	14.14	-0.34	0.41	0.25	0.85
	CO253	Connected member	-1.8	-0.96	0.31	-0.07	-1.28
	CO253	Connected member	0.11	-0.54	0.48	-0.06	0.04
52	CO254	Main member	5.44	-0.56	0.69	3.47	-0.2
	CO254	Connected member	13.67	-1.29	2.66	-3.34	-1.82
	CO254	Connected member	13.8	-0.35	0.4	0.27	0.83
	CO254	Connected member	-1.66	-0.96	0.31	-0.07	-1.25
	CO254	Connected member	0.98	-0.54	0.49	-0.07	0.07
52	CO255	Main member	67.94	-0.51	0.86	4.34	-0.17
	CO255	Connected member	19.95	-1.29	2.62	-3.17	-1.84
	CO255	Connected member	6.27	-0.34	-0.21	1.4	0.81
	CO255	Connected member	12.45	-0.97	0.5	-0.33	-1.29
	CO255	Connected member	54.61	-0.48	0.42	0.11	0.14
52	CO256	Main member	62.71	-0.44	2.59	8.32	0.03
	CO256	Connected member	27.35	-0.88	4.45	-5.77	-1
	CO256	Connected member	17.12	-0.41	-0.46	2.07	0.33
	CO256	Connected member	7.97	-0.48	0.65	-0.21	-0.58
	CO256	Connected member	48.26	-0.43	0.21	0.68	0.1
52	CO257	Main member	21.46	-0.03	-3.3	-5.45	0.18
	CO257	Connected member	23.89	0.17	-1.63	2.87	0.56
	CO257	Connected member	21.85	-0.16	1.05	-1.21	-0.44
	CO257	Connected member	5.68	0.33	-0.22	-0.14	0.46
	CO257	Connected member	1.26	-0.03	0.93	-1.23	0.04
52	CO258	Main member	17.45	-0.03	-3.25	-5.19	0.18
	CO258	Connected member	47.7	0.18	-1.59	2.81	0.57
	CO258	Connected member	45.18	-0.16	1.15	-1.18	-0.44
	CO258	Connected member	-6.32	0.34	-0.35	0.04	0.47
	CO258	Connected member	-7.55	-0.04	0.99	-1.24	0.03
52	CO259	Main member	-20.98	-0.03	-3.41	-6.06	0.19
	CO259	Connected member	28.59	0.18	-1.58	2.74	0.58
	CO259	Connected member	35.36	-0.16	1.52	-2.01	-0.45
	CO259	Connected member	-8.01	0.35	-0.39	0.08	0.48
	CO259	Connected member	-37.08	-0.04	1	-1.39	0.03
52	CO260	Main member	44.38	-0.03	-3.19	-4.87	0.18
	CO260	Connected member	38.96	0.17	-1.63	2.91	0.55
	CO260	Connected member	31.18	-0.15	0.83	-0.69	-0.43
	CO260	Connected member	5	0.32	-0.22	-0.13	0.45
	CO260	Connected member	18.05	-0.03	0.93	-1.14	0.04
52	CO261	Main member	-70.58	-0.63	0.53	2.48	-0.2
	CO261	Connected member	0.82	-1.29	2.73	-3.56	-1.82
	CO261	Connected member	16.64	-0.37	1.1	-1.01	0.84
	CO261	Connected member	-18	-0.95	0.12	0.19	-1.22
	CO261	Connected member	-60.96	-0.6	0.56	-0.26	0.03
52	CO262	Main member	-4.19	-0.56	0.65	3.31	-0.23
	CO262	Connected member	11.53	-1.29	2.66	-3.35	-1.85
	CO262	Connected member	13.93	-0.34	0.49	0.09	0.86
	CO262	Connected member	-3.22	-0.96	0.29	-0.05	-1.27
	CO262	Connected member	-7.12	-0.55	0.49	-0.09	0.04
52	CO263	Main member	-3.39	-0.57	0.66	3.32	-0.2
	CO263	Connected member	11.46	-1.29	2.66	-3.36	-1.83
	CO263	Connected member	13.6	-0.35	0.49	0.1	0.83
	CO263	Connected member	-3.08	-0.96	0.28	-0.04	-1.25
	CO263	Connected member	-6.25	-0.55	0.5	-0.1	0.06
52	CO264	Main member	59.11	-0.52	0.83	4.19	-0.17
	CO264	Connected member	17.75	-1.29	2.63	-3.2	-1.84
	CO264	Connected member	6.06	-0.35	-0.12	1.23	0.81
	CO264	Connected member	11.03	-0.97	0.47	-0.3	-1.28
	CO264	Connected member	47.38	-0.49	0.43	0.07	0.13
52	CO265	Main member	53.89	-0.45	2.56	8.18	0.03
	CO265	Connected member	25.16	-0.89	4.45	-5.8	-1
	CO265	Connected member	16.92	-0.41	-0.38	1.91	0.33
	CO265	Connected member	6.55	-0.48	0.63	-0.18	-0.58
	CO265	Connected member	41.03	-0.44	0.22	0.65	0.09
52	CO266	Main member	12.65	-0.03	-3.33	-5.61	0.18
	CO266	Connected member	21.7	0.17	-1.62	2.84	0.57
	CO266	Connected member	21.64	-0.16	1.14	-1.39	-0.44
	CO266	Connected member	4.27	0.33	-0.24	-0.12	0.46
	CO266	Connected member	-5.97	-0.03	0.94	-1.27	0.04
52	CO267	Main member	8.64	-0.03	-3.28	-5.36	0.18
	CO267	Connected member	45.51	0.18	-1.59	2.79	0.57
	CO267	Connected member	44.98	-0.16	1.24	-1.35	-0.44
	CO267	Connected member	-7.73	0.34	-0.37	0.07	0.47
	CO267	Connected member	-14.77	-0.04	1	-1.28	0.03
52	CO268	Main member	-18.23	-0.03	-3.4	-5.99	0.19
	CO268	Connected member	30.22	0.18	-1.58	2.74	0.58
	CO268	Connected member	36.34	-0.16	1.49	-1.95	-0.45
	CO268	Connected member	-7.98	0.35	-0.38	0.08	0.48
	CO268	Connected member	-35.06	-0.04	1	-1.38	0.03
52	CO269	Main member	47.13	-0.03	-3.17	-4.8	0.18
	CO269	Connected member	40.58	0.17	-1.63	2.91	0.55
	CO269	Connected member	32.15	-0.15	0.81	-0.63	-0.43
	CO269	Connected member	5.02	0.32	-0.22	-0.13	0.45
	CO269	Connected member	20.07	-0.03	0.93	-1.12	0.04
52	CO270	Main member	-67.82	-0.63	0.54	2.54	-0.2
	CO270	Connected member	2.46	-1.29	2.73	-3.55	-1.82
	CO270	Connected member	17.61	-0.37	1.08	-0.95	0.85
	CO270	Connected member	-17.98	-0.95	0.12	0.19	-1.23
	CO270	Connected member	-58.93	-0.6	0.56	-0.25	0.03
52	CO271	Main member	-1.43	-0.55	0.67	3.37	-0.24
	CO271	Connected member	13.16	-1.29	2.66	-3.35	-1.85
	CO271	Connected member	14.9	-0.34	0.47	0.14	0.86
	CO271	Connected member	-3.2	-0.96	0.29	-0.05	-1.28



::LAV/team::

Page: 250/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO271	Connected member	-5.1	-0.54	0.49	-0.08	0.04
	CO272	Main member	-0.64	-0.56	0.67	3.38	-0.2
	CO272	Connected member	13.1	-1.29	2.67	-3.36	-1.83
	CO272	Connected member	14.57	-0.35	0.46	0.16	0.83
	CO272	Connected member	-3.05	-0.96	0.29	-0.05	-1.25
52	CO272	Connected member	-4.23	-0.54	0.5	-0.09	0.06
	CO273	Main member	61.86	-0.51	0.84	4.26	-0.17
	CO273	Connected member	19.38	-1.29	2.63	-3.19	-1.84
	CO273	Connected member	7.03	-0.34	-0.15	1.28	0.81
	CO273	Connected member	11.06	-0.97	0.48	-0.3	-1.29
52	CO273	Connected member	49.4	-0.49	0.43	0.08	0.13
	CO274	Main member	56.63	-0.44	2.57	8.24	0.03
	CO274	Connected member	26.79	-0.88	4.46	-5.8	-1
	CO274	Connected member	17.89	-0.41	-0.4	1.97	0.33
	CO274	Connected member	6.58	-0.48	0.63	-0.18	-0.58
52	CO274	Connected member	43.05	-0.44	0.22	0.66	0.09
	CO275	Main member	15.4	-0.03	-3.32	-5.55	0.18
	CO275	Connected member	23.33	0.17	-1.62	2.85	0.56
	CO275	Connected member	22.62	-0.16	1.11	-1.33	-0.44
	CO275	Connected member	4.29	0.33	-0.24	-0.12	0.46
52	CO275	Connected member	-3.95	-0.03	0.94	-1.26	0.04
	CO276	Main member	11.39	-0.03	-3.27	-5.29	0.18
	CO276	Connected member	47.14	0.18	-1.59	2.8	0.57
	CO276	Connected member	45.95	-0.16	1.21	-1.29	-0.44
	CO276	Connected member	-7.71	0.34	-0.37	0.07	0.47
52	CO276	Connected member	-12.75	-0.04	1	-1.27	0.03
	CO277	Main member	1.3	-0.03	-3.35	-5.69	0.18
	CO277	Connected member	30.08	0.18	-1.61	2.81	0.58
	CO277	Connected member	31.74	-0.16	1.28	-1.56	-0.45
	CO277	Connected member	-2.91	0.35	-0.31	-0.02	0.48
52	CO277	Connected member	-17.47	-0.04	0.96	-1.3	0.03
	CO278	Main member	66.65	-0.03	-3.11	-4.5	0.17
	CO278	Connected member	40.44	0.17	-1.66	2.98	0.55
	CO278	Connected member	27.56	-0.15	0.59	-0.25	-0.43
	CO278	Connected member	10.09	0.32	-0.14	-0.23	0.45
52	CO278	Connected member	37.65	-0.03	0.89	-1.04	0.04
	CO279	Main member	-48.25	-0.61	0.57	2.78	-0.19
	CO279	Connected member	2.37	-1.29	2.7	-3.47	-1.82
	CO279	Connected member	13.03	-0.37	0.87	-0.59	0.83
	CO279	Connected member	-12.89	-0.95	0.2	0.08	-1.23
52	CO279	Connected member	-41.32	-0.58	0.52	-0.18	0.04
	CO280	Main member	18.14	-0.54	0.71	3.61	-0.23
	CO280	Connected member	13.06	-1.29	2.63	-3.27	-1.84
	CO280	Connected member	10.33	-0.34	0.26	0.5	0.84
	CO280	Connected member	1.88	-0.96	0.36	-0.15	-1.28
52	CO280	Connected member	12.51	-0.53	0.45	-0.01	0.06
	CO281	Main member	18.93	-0.55	0.71	3.63	-0.19
	CO281	Connected member	13	-1.28	2.63	-3.28	-1.82
	CO281	Connected member	10	-0.35	0.26	0.52	0.82
	CO281	Connected member	2.03	-0.95	0.36	-0.15	-1.25
52	CO281	Connected member	13.38	-0.53	0.46	-0.02	0.08
	CO282	Main member	81.43	-0.5	0.89	4.51	-0.17
	CO282	Connected member	19.28	-1.28	2.6	-3.11	-1.83
	CO282	Connected member	2.47	-0.35	-0.35	1.65	0.79
	CO282	Connected member	16.14	-0.97	0.55	-0.41	-1.29
52	CO282	Connected member	67	-0.47	0.39	0.16	0.15
	CO283	Main member	76.21	-0.43	2.62	8.47	0.03
	CO283	Connected member	26.68	-0.88	4.42	-5.71	-0.99
	CO283	Connected member	13.32	-0.41	-0.6	2.32	0.31
	CO283	Connected member	11.66	-0.48	0.71	-0.29	-0.58
52	CO283	Connected member	60.65	-0.42	0.18	0.73	0.11
	CO284	Main member	34.93	-0.03	-3.26	-5.25	0.18
	CO284	Connected member	23.19	0.17	-1.65	2.91	0.57
	CO284	Connected member	18.03	-0.16	0.9	-0.94	-0.44
	CO284	Connected member	9.36	0.33	-0.16	-0.21	0.46
52	CO284	Connected member	13.64	-0.03	0.91	-1.17	0.04
	CO285	Main member	30.91	-0.03	-3.21	-4.99	0.18
	CO285	Connected member	47	0.18	-1.61	2.86	0.57
	CO285	Connected member	41.36	-0.16	1	-0.91	-0.44
	CO285	Connected member	-2.64	0.34	-0.3	-0.03	0.47
52	CO285	Connected member	4.83	-0.04	0.96	-1.18	0.02
	CO286	Main member	4.05	-0.03	-3.34	-5.63	0.18
	CO286	Connected member	31.71	0.18	-1.61	2.81	0.58
	CO286	Connected member	32.72	-0.16	1.25	-1.51	-0.45
	CO286	Connected member	-2.89	0.35	-0.31	-0.02	0.47
52	CO286	Connected member	-15.45	-0.04	0.96	-1.29	0.03
	CO287	Main member	69.4	-0.03	-3.1	-4.43	0.17
	CO287	Connected member	42.06	0.17	-1.66	2.99	0.55
	CO287	Connected member	28.53	-0.15	0.57	-0.19	-0.43
	CO287	Connected member	10.12	0.32	-0.14	-0.23	0.45
52	CO287	Connected member	39.67	-0.03	0.89	-1.03	0.04
	CO288	Main member	-45.49	-0.61	0.58	2.84	-0.19
	CO288	Connected member	4	-1.29	2.7	-3.46	-1.82
	CO288	Connected member	14.01	-0.37	0.85	-0.53	0.83
	CO288	Connected member	-12.87	-0.95	0.2	0.08	-1.23
52	CO288	Connected member	-39.29	-0.58	0.52	-0.17	0.04
	CO289	Main member	20.89	-0.54	0.72	3.67	-0.23
	CO289	Connected member	14.7	-1.29	2.63	-3.26	-1.84
	CO289	Connected member	11.31	-0.34	0.24	0.56	0.84
	CO289	Connected member	1.91	-0.96	0.37	-0.15	-1.28
52	CO289	Connected member	14.53	-0.53	0.45	0	0.06
	CO290	Main member	21.69	-0.55	0.72	3.69	-0.19
	CO290	Connected member	14.63	-1.28	2.64	-3.27	-1.82
	CO290	Connected member	10.97	-0.35	0.24	0.58	0.82



::LAV/team::

Page: 251/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO290	Connected member	2.06	-0.95	0.36	-0.15	-1.25
	CO290	Connected member	15.4	-0.53	0.46	-0.01	0.08
52	CO291	Main member	84.18	-0.5	0.91	4.57	-0.17
	CO291	Connected member	20.91	-1.29	2.6	-3.11	-1.83
52	CO291	Connected member	3.44	-0.35	-0.37	1.7	0.79
	CO291	Connected member	16.16	-0.97	0.55	-0.41	-1.29
52	CO291	Connected member	69.03	-0.47	0.39	0.17	0.15
	CO292	Main member	78.96	-0.43	2.63	8.53	0.03
52	CO292	Connected member	28.31	-0.88	4.42	-5.7	-0.99
	CO292	Connected member	14.3	-0.41	-0.63	2.38	0.31
52	CO292	Connected member	11.69	-0.48	0.71	-0.29	-0.58
	CO292	Connected member	62.68	-0.42	0.18	0.74	0.11
52	CO293	Main member	37.68	-0.03	-3.25	-5.18	0.18
	CO293	Connected member	24.82	0.17	-1.65	2.92	0.56
52	CO293	Connected member	19	-0.16	0.87	-0.89	-0.44
	CO293	Connected member	9.39	0.33	-0.16	-0.21	0.46
52	CO293	Connected member	15.66	-0.03	0.91	-1.16	0.04
	CO294	Main member	33.66	-0.03	-3.2	-4.92	0.18
52	CO294	Connected member	48.63	0.18	-1.61	2.87	0.57
	CO294	Connected member	42.33	-0.16	0.97	-0.85	-0.44
52	CO294	Connected member	-2.62	0.34	-0.3	-0.03	0.47
	CO294	Connected member	6.85	-0.04	0.96	-1.17	0.02
52	CO295	Main member	7.37	-0.03	-3.33	-5.6	0.18
	CO295	Connected member	30.64	0.18	-1.61	2.83	0.58
52	CO295	Connected member	30.97	-0.16	1.21	-1.45	-0.45
	CO295	Connected member	-1.52	0.35	-0.29	-0.05	0.47
52	CO295	Connected member	-12.27	-0.04	0.95	-1.27	0.03
	CO296	Main member	72.72	-0.03	-3.09	-4.4	0.17
52	CO296	Connected member	40.99	0.17	-1.67	3	0.55
	CO296	Connected member	26.79	-0.15	0.53	-0.13	-0.43
52	CO296	Connected member	11.49	0.32	-0.12	-0.26	0.44
	CO296	Connected member	42.85	-0.03	0.88	-1.01	0.04
52	CO297	Main member	-42.16	-0.61	0.58	2.86	-0.19
	CO297	Connected member	2.94	-1.29	2.69	-3.45	-1.82
52	CO297	Connected member	12.27	-0.37	0.81	-0.48	0.83
	CO297	Connected member	-11.49	-0.95	0.22	0.05	-1.23
52	CO297	Connected member	-36.11	-0.58	0.51	-0.16	0.05
	CO298	Main member	24.22	-0.53	0.72	3.69	-0.23
52	CO298	Connected member	13.63	-1.29	2.62	-3.24	-1.84
	CO298	Connected member	9.57	-0.34	0.2	0.61	0.84
52	CO298	Connected member	3.28	-0.96	0.38	-0.18	-1.28
	CO298	Connected member	17.72	-0.52	0.44	0.01	0.06
52	CO299	Main member	25.01	-0.54	0.73	3.71	-0.19
	CO299	Connected member	13.57	-1.28	2.63	-3.25	-1.82
52	CO299	Connected member	9.23	-0.35	0.2	0.63	0.81
	CO299	Connected member	3.43	-0.95	0.38	-0.18	-1.25
52	CO299	Connected member	18.59	-0.52	0.45	0	0.09
	CO300	Main member	87.51	-0.5	0.91	4.59	-0.17
52	CO300	Connected member	19.84	-1.28	2.59	-3.09	-1.83
	CO300	Connected member	1.71	-0.35	-0.41	1.76	0.79
52	CO300	Connected member	17.54	-0.97	0.57	-0.44	-1.29
	CO300	Connected member	72.21	-0.47	0.38	0.18	0.15
52	CO301	Main member	82.29	-0.43	2.63	8.55	0.03
	CO301	Connected member	27.25	-0.88	4.41	-5.69	-0.99
52	CO301	Connected member	12.56	-0.41	-0.66	2.43	0.31
	CO301	Connected member	13.06	-0.48	0.73	-0.32	-0.58
52	CO301	Connected member	65.86	-0.42	0.17	0.75	0.11
	CO302	Main member	40.99	-0.03	-3.24	-5.15	0.18
52	CO302	Connected member	23.75	0.17	-1.65	2.93	0.57
	CO302	Connected member	17.26	-0.16	0.84	-0.83	-0.44
52	CO302	Connected member	10.76	0.33	-0.14	-0.24	0.46
	CO302	Connected member	18.84	-0.03	0.9	-1.15	0.04
52	CO303	Main member	36.97	-0.03	-3.19	-4.89	0.17
	CO303	Connected member	47.55	0.18	-1.62	2.88	0.57
52	CO303	Connected member	40.58	-0.16	0.93	-0.79	-0.44
	CO303	Connected member	-1.25	0.34	-0.28	-0.06	0.47
52	CO303	Connected member	10.03	-0.04	0.95	-1.16	0.02
	CO304	Main member	10.12	-0.03	-3.32	-5.53	0.18
52	CO304	Connected member	32.27	0.18	-1.61	2.83	0.58
	CO304	Connected member	31.94	-0.16	1.19	-1.39	-0.45
52	CO304	Connected member	-1.49	0.35	-0.29	-0.05	0.47
	CO304	Connected member	-10.24	-0.04	0.95	-1.26	0.03
52	CO305	Main member	75.46	-0.03	-3.08	-4.33	0.17
	CO305	Connected member	42.62	0.17	-1.67	3	0.55
52	CO305	Connected member	27.76	-0.15	0.5	-0.07	-0.43
	CO305	Connected member	11.51	0.32	-0.12	-0.26	0.44
52	CO305	Connected member	44.88	-0.03	0.88	-1	0.03
	CO306	Main member	-39.41	-0.6	0.59	2.92	-0.19
52	CO306	Connected member	4.57	-1.29	2.69	-3.44	-1.82
	CO306	Connected member	13.24	-0.37	0.79	-0.43	0.83
52	CO306	Connected member	-11.47	-0.95	0.22	0.05	-1.23
	CO306	Connected member	-34.08	-0.57	0.51	-0.15	0.05
52	CO307	Main member	26.97	-0.53	0.73	3.75	-0.23
	CO307	Connected member	15.26	-1.29	2.62	-3.24	-1.84
52	CO307	Connected member	10.54	-0.34	0.18	0.67	0.84
	CO307	Connected member	3.3	-0.96	0.39	-0.18	-1.28
52	CO307	Connected member	19.74	-0.52	0.44	0.02	0.06
	CO308	Main member	27.76	-0.54	0.74	3.77	-0.19
52	CO308	Connected member	15.2	-1.28	2.63	-3.25	-1.82
	CO308	Connected member	10.21	-0.35	0.17	0.69	0.81
52	CO308	Connected member	3.45	-0.95	0.39	-0.18	-1.25
	CO308	Connected member	20.61	-0.52	0.45	0.01	0.09
52	CO309	Main member	90.25	-0.49	0.92	4.66	-0.17
	CO309	Connected member	21.47	-1.28	2.59	-3.08	-1.83



::LAV/team::

Page: 252/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO309	Connected member	2.68	-0.34	-0.43	1.82	0.79
	CO309	Connected member	17.56	-0.97	0.57	-0.44	-1.29
	CO309	Connected member	74.24	-0.47	0.38	0.19	0.15
	CO310	Main member	85.03	-0.43	2.65	8.61	0.03
52	CO310	Connected member	28.88	-0.88	4.42	-5.68	-0.99
	CO310	Connected member	13.53	-0.41	-0.69	2.48	0.31
	CO310	Connected member	13.08	-0.48	0.73	-0.32	-0.58
	CO310	Connected member	67.88	-0.42	0.17	0.76	0.11
52	CO311	Main member	43.74	-0.03	-3.23	-5.08	0.18
	CO311	Connected member	25.38	0.17	-1.65	2.94	0.56
	CO311	Connected member	18.23	-0.16	0.81	-0.77	-0.44
	CO311	Connected member	10.78	0.33	-0.14	-0.24	0.45
52	CO311	Connected member	20.87	-0.03	0.9	-1.14	0.04
	CO312	Main member	39.72	-0.03	-3.18	-4.82	0.17
	CO312	Connected member	49.18	0.18	-1.62	2.89	0.57
	CO312	Connected member	41.55	-0.16	0.91	-0.73	-0.44
52	CO312	Connected member	-1.22	0.34	-0.28	-0.06	0.47
	CO312	Connected member	12.06	-0.04	0.95	-1.15	0.02
	CO313	Main member	-22.15	0	-1.18	-1.63	0
	CO313	Connected member	-1.89	0	0.29	-0.11	0.02
52	CO313	Connected member	2.4	-0.01	0.84	-1.02	-0.02
	CO313	Connected member	-2.76	0.01	0.01	-0.07	0.01
	CO313	Connected member	-20.12	0	0.56	-0.65	0.01
	CO314	Main member	-44.48	0	-1.23	-1.96	0.01
52	CO314	Connected member	-3.43	0	0.31	-0.19	0.02
	CO314	Connected member	5.99	-0.01	1.07	-1.45	-0.02
	CO314	Connected member	-7.86	0.01	-0.07	0.04	0.01
	CO314	Connected member	-39.76	0	0.59	-0.73	0.01
52	CO315	Main member	-50.56	0	-1.25	-2.05	0.01
	CO315	Connected member	-4	0	0.32	-0.21	0.02
	CO315	Connected member	6.76	-0.01	1.14	-1.56	-0.02
	CO315	Connected member	-9.26	0.01	-0.09	0.06	0.01
52	CO315	Connected member	-44.97	0	0.6	-0.76	0.01
	CO316	Main member	-28.23	0	-1.2	-1.72	0.01
	CO316	Connected member	-2.46	0	0.29	-0.13	0.02
	CO316	Connected member	3.16	-0.01	0.9	-1.13	-0.02
52	CO316	Connected member	-4.15	0.01	-0.01	-0.04	0.01
	CO316	Connected member	-25.33	0	0.56	-0.67	0.01
	CO317	Main member	-67.19	0	-1.28	-2.29	0.02
	CO317	Connected member	-6.12	0	0.34	-0.26	0.02
52	CO317	Connected member	8.07	-0.01	1.3	-1.86	-0.02
	CO317	Connected member	-13.1	0.01	-0.14	0.13	0.01
	CO317	Connected member	-58.73	0	0.62	-0.82	0.01
	CO318	Main member	-89.53	0	-1.32	-2.61	0.02
52	CO318	Connected member	-7.67	0	0.37	-0.34	0.02
	CO318	Connected member	11.67	-0.01	1.53	-2.28	-0.02
	CO318	Connected member	-18.21	0.01	-0.22	0.23	0.01
	CO318	Connected member	-78.37	0	0.65	-0.9	0.02
52	CO319	Main member	-95.62	-0.01	-1.33	-2.69	0.02
	CO319	Connected member	-8.25	0	0.37	-0.36	0.02
	CO319	Connected member	12.44	-0.01	1.6	-2.39	-0.02
	CO319	Connected member	-19.6	0.01	-0.24	0.26	0.01
52	CO319	Connected member	-83.59	0	0.66	-0.92	0.02
	CO320	Main member	-73.28	0	-1.29	-2.37	0.02
	CO320	Connected member	-6.69	0	0.35	-0.28	0.02
	CO320	Connected member	8.84	-0.01	1.36	-1.97	-0.02
52	CO320	Connected member	-14.5	0.01	-0.16	0.16	0.01
	CO320	Connected member	-63.94	0	0.63	-0.84	0.02
	CO321	Main member	-100.8	-0.01	-1.34	-2.77	0.02
	CO321	Connected member	-8.73	0	0.38	-0.38	0.02
52	CO321	Connected member	13.09	-0.01	1.65	-2.49	-0.03
	CO321	Connected member	-20.79	0.01	-0.26	0.28	0.02
	CO321	Connected member	-88.03	0	0.66	-0.94	0.02
	CO322	Main member	-98.04	-0.01	-1.33	-2.71	0.02
52	CO322	Connected member	-7.09	0	0.38	-0.37	0.02
	CO322	Connected member	14.07	-0.01	1.62	-2.43	-0.03
	CO322	Connected member	-20.77	0.01	-0.26	0.28	0.01
	CO322	Connected member	-86	0	0.66	-0.93	0.02
52	CO323	Main member	-106.88	-0.01	-1.35	-2.85	0.02
	CO323	Connected member	-9.31	0	0.39	-0.4	0.02
	CO323	Connected member	13.86	-0.01	1.71	-2.6	-0.03
	CO323	Connected member	-22.19	0.01	-0.28	0.31	0.02
52	CO323	Connected member	-93.24	0	0.67	-0.96	0.02
	CO324	Main member	-104.12	-0.01	-1.34	-2.79	0.02
	CO324	Connected member	-7.67	0	0.39	-0.4	0.02
	CO324	Connected member	14.84	-0.01	1.69	-2.54	-0.03
52	CO324	Connected member	-22.17	0.01	-0.28	0.31	0.02
	CO324	Connected member	-91.21	0	0.67	-0.95	0.02
	CO325	Main member	-84.54	0	-1.31	-2.53	0.02
	CO325	Connected member	-7.75	0	0.36	-0.32	0.02
52	CO325	Connected member	10.26	-0.01	1.48	-2.18	-0.02
	CO325	Connected member	-17.08	0.01	-0.2	0.2	0.01
	CO325	Connected member	-73.6	0	0.64	-0.88	0.02
	CO326	Main member	-81.78	0	-1.3	-2.47	0.02
52	CO326	Connected member	-6.11	0	0.36	-0.31	0.02
	CO326	Connected member	11.24	-0.01	1.45	-2.12	-0.02
	CO326	Connected member	-17.06	0.01	-0.2	0.2	0.01
	CO326	Connected member	-71.57	0	0.64	-0.87	0.02
52	CO327	Main member	-71.57	-0.02	-2.4	-4.77	0.13
	CO327	Connected member	11.91	0.1	-0.83	1.44	0.35
	CO327	Connected member	28.93	-0.1	1.64	-2.43	-0.28
	CO327	Connected member	-17.9	0.21	-0.41	0.27	0.29
52	CO327	Connected member	-73.24	-0.02	0.78	-1.17	0.03
	CO328	Main member	-32.3	-0.02	-2.29	-4.1	0.12



::LAV/team::

Page: 253/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO328	Connected member	18.19	0.1	-0.86	1.55	0.34
	CO328	Connected member	26.43	-0.1	1.23	-1.66	-0.27
	CO328	Connected member	-10.08	0.2	-0.31	0.13	0.28
	CO328	Connected member	-40.13	-0.02	0.75	-1.03	0.04
52	CO329	Main member	-101.4	-0.4	-0.01	0.43	-0.11
	CO329	Connected member	-4.81	-0.78	1.76	-2.35	-1.09
	CO329	Connected member	17.67	-0.23	1.38	-1.8	0.5
	CO329	Connected member	-23.91	-0.58	-0.11	0.35	-0.73
52	CO329	Connected member	-87.6	-0.37	0.52	-0.47	0.01
	CO330	Main member	-61.55	-0.37	0.05	0.92	-0.14
	CO330	Connected member	1.63	-0.78	1.71	-2.23	-1.11
	CO330	Connected member	16.04	-0.21	1.01	-1.15	0.52
52	CO330	Connected member	-15.04	-0.58	-0.01	0.21	-0.76
	CO330	Connected member	-55.29	-0.35	0.48	-0.37	0.01
	CO331	Main member	-61.07	-0.38	0.06	0.93	-0.11
	CO331	Connected member	1.59	-0.78	1.72	-2.24	-1.1
52	CO331	Connected member	15.83	-0.22	1.01	-1.14	0.5
	CO331	Connected member	-14.95	-0.58	-0.01	0.21	-0.74
	CO331	Connected member	-54.77	-0.35	0.49	-0.38	0.03
	CO332	Main member	-23.56	-0.35	0.14	1.46	-0.1
52	CO332	Connected member	5.38	-0.78	1.7	-2.14	-1.11
	CO332	Connected member	11.31	-0.22	0.64	-0.46	0.5
	CO332	Connected member	-6.49	-0.59	0.1	0.05	-0.76
	CO332	Connected member	-22.58	-0.33	0.45	-0.28	0.06
52	CO333	Main member	-26.7	-0.3	1.19	3.9	0.03
	CO333	Connected member	9.82	-0.54	2.8	-3.72	-0.6
	CO333	Connected member	17.83	-0.26	0.48	-0.03	0.2
	CO333	Connected member	-9.19	-0.29	0.19	0.14	-0.34
52	CO333	Connected member	-26.4	-0.29	0.33	0.08	0.04
	CO334	Main member	-51.38	-0.02	-2.36	-4.53	0.13
	CO334	Connected member	7.8	0.1	-0.85	1.51	0.35
	CO334	Connected member	20.69	-0.1	1.41	-2.07	-0.28
52	CO334	Connected member	-10.53	0.2	-0.32	0.15	0.28
	CO334	Connected member	-54.56	-0.02	0.75	-1.1	0.04
	CO335	Main member	-53.77	-0.02	-2.33	-4.37	0.12
	CO335	Connected member	22.1	0.1	-0.82	1.47	0.35
52	CO335	Connected member	34.71	-0.1	1.48	-2.05	-0.27
	CO335	Connected member	-17.73	0.21	-0.4	0.26	0.29
	CO335	Connected member	-59.83	-0.02	0.78	-1.11	0.03
	CO336	Main member	-68.81	-0.02	-2.39	-4.71	0.13
52	CO336	Connected member	13.55	0.1	-0.82	1.44	0.35
	CO336	Connected member	29.9	-0.1	1.62	-2.37	-0.28
	CO336	Connected member	-17.87	0.21	-0.41	0.27	0.29
	CO336	Connected member	-71.21	-0.02	0.78	-1.16	0.03
52	CO337	Main member	-29.55	-0.02	-2.28	-4.04	0.12
	CO337	Connected member	19.83	0.1	-0.86	1.55	0.34
	CO337	Connected member	27.4	-0.1	1.21	-1.6	-0.27
	CO337	Connected member	-10.06	0.2	-0.31	0.13	0.28
52	CO337	Connected member	-38.1	-0.02	0.75	-1.02	0.04
	CO338	Main member	-98.64	-0.4	0	0.48	-0.11
	CO338	Connected member	-3.17	-0.78	1.76	-2.35	-1.09
	CO338	Connected member	18.64	-0.23	1.35	-1.75	0.5
52	CO338	Connected member	-23.89	-0.58	-0.11	0.35	-0.73
	CO338	Connected member	-85.57	-0.37	0.52	-0.46	0.01
	CO339	Main member	-58.79	-0.37	0.06	0.98	-0.14
	CO339	Connected member	3.27	-0.78	1.72	-2.23	-1.11
52	CO339	Connected member	17.01	-0.21	0.99	-1.09	0.52
	CO339	Connected member	-15.02	-0.58	-0.01	0.21	-0.76
	CO339	Connected member	-53.26	-0.35	0.48	-0.36	0.01
	CO340	Main member	-58.31	-0.37	0.07	0.99	-0.12
52	CO340	Connected member	3.23	-0.78	1.72	-2.23	-1.1
	CO340	Connected member	16.81	-0.22	0.98	-1.08	0.5
	CO340	Connected member	-14.93	-0.58	-0.01	0.21	-0.74
	CO340	Connected member	-52.74	-0.35	0.49	-0.37	0.03
52	CO341	Main member	-20.8	-0.35	0.15	1.52	-0.1
	CO341	Connected member	7.02	-0.78	1.7	-2.14	-1.12
	CO341	Connected member	12.28	-0.22	0.61	-0.4	0.5
	CO341	Connected member	-6.47	-0.59	0.1	0.05	-0.76
52	CO341	Connected member	-20.55	-0.33	0.45	-0.27	0.06
	CO342	Main member	-23.95	-0.3	1.2	3.96	0.03
	CO342	Connected member	11.46	-0.54	2.8	-3.71	-0.61
	CO342	Connected member	18.8	-0.26	0.45	0.03	0.2
52	CO342	Connected member	-9.16	-0.29	0.19	0.14	-0.34
	CO342	Connected member	-24.37	-0.29	0.33	0.08	0.04
	CO343	Main member	-48.62	-0.02	-2.35	-4.46	0.13
	CO343	Connected member	9.43	0.1	-0.85	1.51	0.34
52	CO343	Connected member	21.67	-0.1	1.39	-2.01	-0.28
	CO343	Connected member	-10.51	0.2	-0.32	0.15	0.28
	CO343	Connected member	-52.53	-0.02	0.75	-1.09	0.04
	CO344	Main member	-51.01	-0.02	-2.32	-4.3	0.12
52	CO344	Connected member	23.74	0.1	-0.82	1.48	0.35
	CO344	Connected member	35.68	-0.1	1.45	-1.99	-0.27
	CO344	Connected member	-17.7	0.21	-0.4	0.26	0.29
	CO344	Connected member	-57.8	-0.02	0.78	-1.1	0.03
52	CO345	Main member	-77.65	-0.02	-2.41	-4.86	0.13
	CO345	Connected member	11.35	0.1	-0.82	1.42	0.35
	CO345	Connected member	29.7	-0.1	1.7	-2.55	-0.28
	CO345	Connected member	-19.29	0.21	-0.43	0.29	0.29
52	CO345	Connected member	-78.45	-0.02	0.79	-1.19	0.03
	CO346	Main member	-38.37	-0.02	-2.31	-4.19	0.13
	CO346	Connected member	17.63	0.1	-0.85	1.53	0.34
	CO346	Connected member	27.2	-0.1	1.3	-1.77	-0.27
	CO346	Connected member	-11.48	0.2	-0.33	0.16	0.28
	CO346	Connected member	-45.34	-0.02	0.76	-1.05	0.04



::LAVteam::

Page: 254/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO347	Main member	-107.48	-0.4	-0.02	0.34	-0.11
	CO347	Connected member	-5.39	-0.78	1.76	-2.38	-1.09
	CO347	Connected member	18.43	-0.23	1.44	-1.91	0.5
	CO347	Connected member	-25.31	-0.58	-0.13	0.38	-0.73
	CO347	Connected member	-92.82	-0.38	0.53	-0.49	0.01
52	CO348	Main member	-67.63	-0.37	0.04	0.84	-0.14
	CO348	Connected member	1.06	-0.78	1.72	-2.25	-1.11
	CO348	Connected member	16.8	-0.21	1.07	-1.26	0.52
	CO348	Connected member	-16.44	-0.58	-0.03	0.24	-0.76
	CO348	Connected member	-60.51	-0.36	0.49	-0.39	0.01
52	CO349	Main member	-67.15	-0.38	0.04	0.85	-0.11
	CO349	Connected member	1.02	-0.78	1.73	-2.26	-1.1
	CO349	Connected member	16.6	-0.22	1.07	-1.25	0.5
	CO349	Connected member	-16.35	-0.58	-0.03	0.24	-0.74
	CO349	Connected member	-59.98	-0.36	0.5	-0.4	0.02
52	CO350	Main member	-29.64	-0.36	0.12	1.37	-0.1
	CO350	Connected member	4.81	-0.78	1.71	-2.16	-1.12
	CO350	Connected member	12.07	-0.22	0.7	-0.57	0.5
	CO350	Connected member	-7.89	-0.59	0.08	0.08	-0.76
	CO350	Connected member	-27.79	-0.33	0.46	-0.3	0.06
52	CO351	Main member	-32.78	-0.31	1.18	3.82	0.03
	CO351	Connected member	9.25	-0.54	2.81	-3.74	-0.61
	CO351	Connected member	18.6	-0.26	0.54	-0.14	0.2
	CO351	Connected member	-10.58	-0.29	0.17	0.17	-0.34
	CO351	Connected member	-31.61	-0.3	0.34	0.05	0.04
52	CO352	Main member	-57.45	-0.02	-2.38	-4.62	0.13
	CO352	Connected member	7.23	0.1	-0.84	1.49	0.35
	CO352	Connected member	21.46	-0.1	1.48	-2.18	-0.28
	CO352	Connected member	-11.92	0.2	-0.34	0.17	0.28
	CO352	Connected member	-59.77	-0.02	0.76	-1.12	0.04
52	CO353	Main member	-59.84	-0.02	-2.35	-4.46	0.13
	CO353	Connected member	21.54	0.1	-0.82	1.45	0.35
	CO353	Connected member	35.48	-0.1	1.54	-2.16	-0.28
	CO353	Connected member	-19.12	0.21	-0.42	0.28	0.29
	CO353	Connected member	-65.04	-0.02	0.79	-1.13	0.03
52	CO354	Main member	-74.89	-0.02	-2.4	-4.8	0.13
	CO354	Connected member	12.99	0.1	-0.82	1.42	0.35
	CO354	Connected member	30.67	-0.1	1.68	-2.49	-0.28
	CO354	Connected member	-19.27	0.21	-0.43	0.29	0.29
	CO354	Connected member	-76.42	-0.02	0.79	-1.18	0.03
52	CO355	Main member	-35.62	-0.02	-2.3	-4.13	0.13
	CO355	Connected member	19.26	0.1	-0.85	1.53	0.34
	CO355	Connected member	28.17	-0.1	1.27	-1.71	-0.27
	CO355	Connected member	-11.45	0.2	-0.33	0.16	0.28
	CO355	Connected member	-43.31	-0.02	0.76	-1.04	0.04
52	CO356	Main member	-104.72	-0.4	-0.01	0.4	-0.11
	CO356	Connected member	-3.74	-0.78	1.76	-2.37	-1.09
	CO356	Connected member	19.41	-0.23	1.41	-1.86	0.5
	CO356	Connected member	-25.28	-0.58	-0.13	0.38	-0.73
	CO356	Connected member	-90.79	-0.38	0.53	-0.48	0.01
52	CO357	Main member	-64.87	-0.37	0.05	0.9	-0.14
	CO357	Connected member	2.7	-0.78	1.72	-2.25	-1.11
	CO357	Connected member	17.78	-0.21	1.05	-1.2	0.52
	CO357	Connected member	-16.42	-0.58	-0.03	0.24	-0.76
	CO357	Connected member	-58.48	-0.36	0.49	-0.39	0.01
52	CO358	Main member	-64.4	-0.38	0.05	0.91	-0.12
	CO358	Connected member	2.66	-0.78	1.73	-2.26	-1.1
	CO358	Connected member	17.58	-0.22	1.04	-1.19	0.5
	CO358	Connected member	-16.33	-0.58	-0.03	0.24	-0.74
	CO358	Connected member	-57.95	-0.36	0.5	-0.39	0.02
52	CO359	Main member	-26.88	-0.36	0.14	1.43	-0.1
	CO359	Connected member	6.45	-0.78	1.71	-2.16	-1.12
	CO359	Connected member	13.05	-0.22	0.68	-0.51	0.5
	CO359	Connected member	-7.86	-0.59	0.08	0.08	-0.76
	CO359	Connected member	-25.76	-0.33	0.46	-0.29	0.05
52	CO360	Main member	-30.03	-0.3	1.19	3.88	0.03
	CO360	Connected member	10.89	-0.54	2.81	-3.74	-0.61
	CO360	Connected member	19.57	-0.26	0.51	-0.08	0.2
	CO360	Connected member	-10.56	-0.29	0.17	0.16	-0.34
	CO360	Connected member	-29.58	-0.3	0.34	0.06	0.04
52	CO361	Main member	-54.7	-0.02	-2.37	-4.56	0.13
	CO361	Connected member	8.87	0.1	-0.84	1.49	0.34
	CO361	Connected member	22.44	-0.1	1.45	-2.13	-0.28
	CO361	Connected member	-11.9	0.2	-0.34	0.17	0.28
	CO361	Connected member	-57.74	-0.02	0.76	-1.11	0.04
52	CO362	Main member	-57.09	-0.02	-2.34	-4.4	0.12
	CO362	Connected member	23.18	0.1	-0.82	1.46	0.35
	CO362	Connected member	36.45	-0.1	1.51	-2.1	-0.27
	CO362	Connected member	-19.1	0.21	-0.42	0.28	0.29
	CO362	Connected member	-63.01	-0.02	0.79	-1.12	0.03
52	CO363	Main member	-55.34	-0.02	-2.36	-4.52	0.12
	CO363	Connected member	12.87	0.1	-0.84	1.5	0.35
	CO363	Connected member	26.08	-0.1	1.46	-2.11	-0.28
	CO363	Connected member	-14.19	0.21	-0.35	0.19	0.29
	CO363	Connected member	-58.82	-0.02	0.76	-1.1	0.03
52	CO364	Main member	-16.08	-0.02	-2.25	-3.85	0.12
	CO364	Connected member	19.14	0.1	-0.88	1.61	0.34
	CO364	Connected member	23.59	-0.1	1.06	-1.34	-0.27
	CO364	Connected member	-6.38	0.2	-0.25	0.06	0.27
	CO364	Connected member	-25.71	-0.02	0.72	-0.96	0.03
52	CO365	Main member	-65.14	-0.39	0.02	0.64	-0.11
	CO365	Connected member	-3.83	-0.78	1.73	-2.29	-1.09
	CO365	Connected member	14.83	-0.23	1.21	-1.5	0.5
	CO365	Connected member	-20.2	-0.57	-0.05	0.27	-0.73



::LAV/team::

Page: 255/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO365	Connected member	-73.17	-0.37	0.5	-0.41	0.02
	CO366	Main member	-45.3	-0.36	0.08	1.14	-0.13
	CO366	Connected member	2.61	-0.78	1.69	-2.17	-1.11
	CO366	Connected member	13.2	-0.21	0.84	-0.84	0.51
	CO366	Connected member	-11.33	-0.58	0.05	0.13	-0.76
52	CO366	Connected member	-40.87	-0.34	0.46	-0.32	0.02
	CO367	Main member	-44.82	-0.37	0.09	1.15	-0.11
	CO367	Connected member	2.57	-0.78	1.7	-2.17	-1.1
	CO367	Connected member	13	-0.22	0.84	-0.83	0.5
	CO367	Connected member	-11.24	-0.58	0.05	0.13	-0.74
52	CO367	Connected member	-40.34	-0.35	0.46	-0.32	0.03
	CO368	Main member	-7.31	-0.35	0.17	1.68	-0.1
	CO368	Connected member	6.36	-0.78	1.68	-2.08	-1.11
	CO368	Connected member	8.48	-0.22	0.47	-0.15	0.49
	CO368	Connected member	-2.78	-0.59	0.16	-0.02	-0.76
52	CO368	Connected member	-8.15	-0.32	0.43	-0.22	0.06
	CO369	Main member	-10.45	-0.3	1.22	4.12	0.03
	CO369	Connected member	10.8	-0.54	2.77	-3.65	-0.6
	CO369	Connected member	15	-0.26	0.31	0.27	0.2
	CO369	Connected member	-5.47	-0.29	0.25	0.06	-0.34
52	CO369	Connected member	-11.97	-0.29	0.31	0.13	0.05
	CO370	Main member	-35.15	-0.02	-2.32	-4.28	0.12
	CO370	Connected member	8.75	0.1	-0.87	1.56	0.34
	CO370	Connected member	17.85	-0.1	1.24	-1.75	-0.27
	CO370	Connected member	-6.82	0.2	-0.26	0.07	0.28
52	CO370	Connected member	-40.14	-0.02	0.73	-1.04	0.04
	CO371	Main member	-37.54	-0.02	-2.29	-4.12	0.12
	CO371	Connected member	23.06	0.1	-0.84	1.53	0.35
	CO371	Connected member	31.86	-0.1	1.3	-1.73	-0.27
	CO371	Connected member	-14.02	0.21	-0.34	0.18	0.29
52	CO371	Connected member	-45.42	-0.02	0.76	-1.04	0.03
	CO372	Main member	-52.58	-0.02	-2.35	-4.46	0.12
	CO372	Connected member	14.51	0.1	-0.84	1.5	0.35
	CO372	Connected member	27.06	-0.1	1.44	-2.06	-0.28
	CO372	Connected member	-14.17	0.21	-0.35	0.19	0.29
52	CO372	Connected member	-56.79	-0.02	0.76	-1.09	0.03
	CO373	Main member	-13.32	-0.02	-2.24	-3.78	0.12
	CO373	Connected member	20.78	0.1	-0.88	1.61	0.34
	CO373	Connected member	24.56	-0.1	1.03	-1.28	-0.27
	CO373	Connected member	-6.35	0.2	-0.25	0.06	0.27
52	CO373	Connected member	-23.69	-0.02	0.72	-0.95	0.03
	CO374	Main member	-82.38	-0.39	0.03	0.7	-0.11
	CO374	Connected member	-2.19	-0.78	1.73	-2.28	-1.09
	CO374	Connected member	15.81	-0.23	1.18	-1.44	0.5
	CO374	Connected member	-20.17	-0.57	-0.05	0.27	-0.73
52	CO374	Connected member	-71.14	-0.37	0.5	-0.41	0.02
	CO375	Main member	-42.54	-0.36	0.09	1.2	-0.14
	CO375	Connected member	4.24	-0.78	1.69	-2.16	-1.11
	CO375	Connected member	14.18	-0.21	0.82	-0.78	0.51
	CO375	Connected member	-11.31	-0.58	0.05	0.13	-0.76
52	CO375	Connected member	-38.84	-0.34	0.46	-0.31	0.02
	CO376	Main member	-42.06	-0.37	0.1	1.21	-0.11
	CO376	Connected member	4.21	-0.78	1.7	-2.17	-1.1
	CO376	Connected member	13.98	-0.22	0.81	-0.77	0.5
	CO376	Connected member	-11.22	-0.58	0.05	0.13	-0.75
52	CO376	Connected member	-38.31	-0.34	0.46	-0.31	0.03
	CO377	Main member	-4.55	-0.34	0.19	1.74	-0.1
	CO377	Connected member	7.99	-0.78	1.68	-2.07	-1.11
	CO377	Connected member	9.45	-0.22	0.45	-0.09	0.49
	CO377	Connected member	-2.75	-0.59	0.16	-0.03	-0.77
52	CO377	Connected member	-6.12	-0.32	0.43	-0.21	0.06
	CO378	Main member	-7.7	-0.3	1.23	4.18	0.03
	CO378	Connected member	12.43	-0.54	2.78	-3.65	-0.6
	CO378	Connected member	15.97	-0.26	0.29	0.33	0.2
	CO378	Connected member	-5.45	-0.29	0.25	0.05	-0.34
52	CO378	Connected member	-9.94	-0.29	0.31	0.14	0.05
	CO379	Main member	-32.39	-0.02	-2.31	-4.21	0.12
	CO379	Connected member	10.39	0.1	-0.87	1.57	0.34
	CO379	Connected member	18.83	-0.1	1.21	-1.69	-0.27
	CO379	Connected member	-6.8	0.2	-0.26	0.07	0.28
52	CO379	Connected member	-38.12	-0.02	0.73	-1.03	0.04
	CO380	Main member	-34.79	-0.02	-2.28	-4.05	0.12
	CO380	Connected member	24.69	0.1	-0.84	1.53	0.35
	CO380	Connected member	32.84	-0.1	1.28	-1.67	-0.27
	CO380	Connected member	-14	0.21	-0.34	0.18	0.29
52	CO380	Connected member	-43.39	-0.02	0.76	-1.03	0.03
	CO381	Main member	-60.32	-0.02	-2.37	-4.6	0.12
	CO381	Connected member	12.96	0.1	-0.84	1.48	0.35
	CO381	Connected member	27.5	-0.1	1.52	-2.22	-0.28
	CO381	Connected member	-15.31	0.21	-0.37	0.22	0.29
52	CO381	Connected member	-63.59	-0.02	0.77	-1.12	0.03
	CO382	Main member	-21.06	-0.02	-2.26	-3.93	0.12
	CO382	Connected member	19.23	0.1	-0.87	1.59	0.34
	CO382	Connected member	25	-0.1	1.12	-1.44	-0.27
	CO382	Connected member	-7.5	0.2	-0.27	0.09	0.28
52	CO382	Connected member	-30.48	-0.02	0.73	-0.98	0.04
	CO383	Main member	-90.13	-0.39	0.01	0.57	-0.11
	CO383	Connected member	-3.75	-0.78	1.74	-2.31	-1.09
	CO383	Connected member	16.24	-0.23	1.26	-1.6	0.5
	CO383	Connected member	-21.32	-0.57	-0.07	0.3	-0.73
52	CO383	Connected member	-77.95	-0.37	0.5	-0.43	0.02
	CO384	Main member	-50.29	-0.36	0.07	1.07	-0.14
	CO384	Connected member	2.69	-0.78	1.7	-2.19	-1.11
	CO384	Connected member	14.62	-0.21	0.9	-0.94	0.51



::LAV/team::

Page: 256/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO384	Connected member	-12.46	-0.58	0.02	0.16	-0.76
	CO384	Connected member	-45.64	-0.35	0.46	-0.33	0.02
	CO385	Main member	-49.81	-0.37	0.08	1.08	-0.11
52	CO385	Connected member	2.65	-0.78	1.71	-2.2	-1.1
	CO385	Connected member	14.41	-0.22	0.89	-0.93	0.5
	CO385	Connected member	-12.37	-0.58	0.02	0.16	-0.74
52	CO385	Connected member	-45.12	-0.35	0.47	-0.34	0.03
	CO386	Main member	-12.3	-0.35	0.16	1.61	-0.1
	CO386	Connected member	6.44	-0.78	1.69	-2.1	-1.11
52	CO386	Connected member	9.89	-0.22	0.53	-0.26	0.5
	CO386	Connected member	-3.9	-0.59	0.14	0	-0.76
	CO386	Connected member	-12.93	-0.33	0.44	-0.24	0.06
52	CO387	Main member	-15.44	-0.3	1.21	4.05	0.03
	CO387	Connected member	10.88	-0.54	2.78	-3.68	-0.6
	CO387	Connected member	16.41	-0.26	0.37	0.17	0.2
52	CO387	Connected member	-6.6	-0.29	0.23	0.09	-0.34
	CO387	Connected member	-16.75	-0.29	0.31	0.11	0.05
	CO388	Main member	-40.13	-0.02	-2.34	-4.35	0.12
52	CO388	Connected member	8.84	0.1	-0.86	1.54	0.34
	CO388	Connected member	19.27	-0.1	1.3	-1.86	-0.28
	CO388	Connected member	-7.95	0.2	-0.28	0.1	0.28
52	CO388	Connected member	-44.92	-0.02	0.73	-1.06	0.04
	CO389	Main member	-42.52	-0.02	-2.31	-4.2	0.12
	CO389	Connected member	23.14	0.1	-0.84	1.51	0.35
52	CO389	Connected member	33.28	-0.1	1.36	-1.83	-0.27
	CO389	Connected member	-15.14	0.21	-0.36	0.21	0.29
	CO389	Connected member	-50.19	-0.02	0.77	-1.06	0.03
52	CO390	Main member	-66.4	-0.02	-2.39	-4.69	0.13
	CO390	Connected member	12.39	0.1	-0.83	1.46	0.35
	CO390	Connected member	28.27	-0.1	1.59	-2.34	-0.28
52	CO390	Connected member	-16.71	0.21	-0.39	0.24	0.29
	CO390	Connected member	-68.8	-0.02	0.77	-1.15	0.03
	CO391	Main member	-27.13	-0.02	-2.28	-4.02	0.12
52	CO391	Connected member	18.67	0.1	-0.86	1.57	0.34
	CO391	Connected member	25.77	-0.1	1.18	-1.56	-0.27
	CO391	Connected member	-8.89	0.2	-0.29	0.11	0.28
52	CO391	Connected member	-35.69	-0.02	0.74	-1.01	0.04
	CO392	Main member	-96.21	-0.4	0	0.49	-0.11
	CO392	Connected member	-4.32	-0.78	1.75	-2.33	-1.09
52	CO392	Connected member	17.01	-0.23	1.32	-1.71	0.5
	CO392	Connected member	-22.72	-0.57	-0.09	0.33	-0.73
	CO392	Connected member	-83.16	-0.37	0.51	-0.45	0.02
52	CO393	Main member	-56.37	-0.37	0.06	0.99	-0.14
	CO393	Connected member	2.12	-0.78	1.71	-2.21	-1.11
	CO393	Connected member	15.38	-0.21	0.96	-1.05	0.51
52	CO393	Connected member	-13.85	-0.58	0	0.19	-0.76
	CO393	Connected member	-50.85	-0.35	0.47	-0.35	0.01
	CO394	Main member	-55.89	-0.37	0.06	1	-0.11
52	CO394	Connected member	2.08	-0.78	1.71	-2.22	-1.1
	CO394	Connected member	15.18	-0.22	0.96	-1.04	0.5
	CO394	Connected member	-13.76	-0.58	0	0.19	-0.74
52	CO394	Connected member	-50.33	-0.35	0.48	-0.36	0.03
	CO395	Main member	-18.38	-0.35	0.15	1.53	-0.1
	CO395	Connected member	5.87	-0.78	1.69	-2.12	-1.11
52	CO395	Connected member	10.65	-0.22	0.59	-0.37	0.5
	CO395	Connected member	-5.3	-0.59	0.12	0.03	-0.76
	CO395	Connected member	-18.14	-0.33	0.45	-0.26	0.06
52	CO396	Main member	-21.52	-0.3	1.2	3.97	0.03
	CO396	Connected member	10.31	-0.54	2.79	-3.7	-0.6
	CO396	Connected member	17.18	-0.26	0.43	0.06	0.2
52	CO396	Connected member	-7.99	-0.29	0.21	0.11	-0.34
	CO396	Connected member	-21.96	-0.29	0.32	0.09	0.04
	CO397	Main member	-46.21	-0.02	-2.35	-4.45	0.13
52	CO397	Connected member	8.28	0.1	-0.86	1.52	0.34
	CO397	Connected member	20.04	-0.1	1.36	-1.97	-0.28
	CO397	Connected member	-9.34	0.2	-0.3	0.13	0.28
52	CO397	Connected member	-50.12	-0.02	0.74	-1.08	0.04
	CO398	Main member	-48.6	-0.02	-2.32	-4.29	0.12
	CO398	Connected member	22.58	0.1	-0.83	1.49	0.35
52	CO398	Connected member	34.05	-0.1	1.42	-1.95	-0.27
	CO398	Connected member	-16.54	0.21	-0.38	0.24	0.29
	CO398	Connected member	-55.4	-0.02	0.78	-1.09	0.03
52	CO399	Main member	-44.09	-0.02	-2.34	-4.35	0.12
	CO399	Connected member	13.92	0.1	-0.86	1.53	0.35
	CO399	Connected member	24.65	-0.1	1.35	-1.9	-0.28
52	CO399	Connected member	-11.61	0.21	-0.31	0.14	0.29
	CO399	Connected member	-49.17	-0.02	0.74	-1.06	0.03
	CO400	Main member	-4.83	-0.02	-2.22	-3.67	0.12
52	CO400	Connected member	20.18	0.1	-0.89	1.64	0.34
	CO400	Connected member	22.16	-0.1	0.94	-1.12	-0.27
	CO400	Connected member	-3.79	0.2	-0.21	0.01	0.27
52	CO400	Connected member	-16.07	-0.02	0.71	-0.92	0.03
	CO401	Main member	-73.88	-0.39	0.04	0.79	-0.11
	CO401	Connected member	-2.77	-0.78	1.72	-2.25	-1.09
52	CO401	Connected member	13.41	-0.23	1.09	-1.29	0.49
	CO401	Connected member	-17.61	-0.57	-0.02	0.22	-0.73
	CO401	Connected member	-63.52	-0.36	0.48	-0.38	0.02
52	CO402	Main member	-34.04	-0.35	0.11	1.3	-0.13
	CO402	Connected member	3.66	-0.78	1.68	-2.13	-1.11
	CO402	Connected member	11.78	-0.21	0.73	-0.63	0.51
52	CO402	Connected member	-8.75	-0.58	0.08	0.08	-0.76
	CO402	Connected member	-31.22	-0.34	0.44	-0.28	0.02
	CO403	Main member	-33.56	-0.36	0.11	1.31	-0.11
	CO403	Connected member	3.63	-0.78	1.68	-2.13	-1.09



::LAV/team::

Page: 257/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO403	Connected member	11.58	-0.22	0.72	-0.62	0.49
	CO403	Connected member	-8.66	-0.57	0.08	0.08	-0.75
	CO403	Connected member	-30.69	-0.34	0.45	-0.28	0.04
52	CO404	Main member	3.95	-0.34	0.2	1.84	-0.1
	CO404	Connected member	7.41	-0.78	1.66	-2.04	-1.11
	CO404	Connected member	7.06	-0.22	0.36	0.05	0.49
52	CO404	Connected member	-0.19	-0.59	0.2	-0.07	-0.77
	CO404	Connected member	1.5	-0.32	0.41	-0.18	0.07
	CO405	Main member	0.81	-0.29	1.25	4.26	0.03
52	CO405	Connected member	11.85	-0.54	2.76	-3.61	-0.6
	CO405	Connected member	13.58	-0.26	0.2	0.48	0.19
	CO405	Connected member	-2.88	-0.29	0.29	0	-0.34
52	CO405	Connected member	-2.32	-0.28	0.29	0.17	0.05
	CO406	Main member	-23.9	-0.02	-2.3	-4.1	0.12
	CO406	Connected member	9.8	0.1	-0.88	1.6	0.34
52	CO406	Connected member	16.43	-0.1	1.12	-1.54	-0.27
	CO406	Connected member	-4.24	0.2	-0.23	0.03	0.28
	CO406	Connected member	-30.5	-0.02	0.71	-0.99	0.03
52	CO407	Main member	-26.3	-0.02	-2.26	-3.94	0.12
	CO407	Connected member	24.1	0.1	-0.86	1.57	0.35
	CO407	Connected member	30.44	-0.1	1.18	-1.52	-0.27
52	CO407	Connected member	-11.44	0.21	-0.31	0.14	0.29
	CO407	Connected member	-35.77	-0.02	0.75	-1	0.02
	CO408	Main member	-78.46	0	-1.3	-2.45	0.02
52	CO408	Connected member	-7.18	0	0.35	-0.3	0.02
	CO408	Connected member	9.49	-0.01	1.41	-2.07	-0.02
	CO408	Connected member	-15.69	0.01	-0.18	0.18	0.01
52	CO408	Connected member	-68.39	0	0.63	-0.86	0.02
	CO409	Main member	-75.7	0	-1.29	-2.39	0.02
	CO409	Connected member	-5.54	0	0.35	-0.29	0.02
52	CO409	Connected member	10.47	-0.01	1.39	-2.01	-0.02
	CO409	Connected member	-15.66	0.01	-0.18	0.18	0.01
	CO409	Connected member	-66.35	0	0.64	-0.85	0.02
52	CO410	Main member	-49.26	-0.02	-2.35	-4.43	0.12
	CO410	Connected member	13.44	0.1	-0.85	1.52	0.35
	CO410	Connected member	25.31	-0.1	1.4	-2	-0.28
52	CO410	Connected member	-12.8	0.21	-0.33	0.17	0.29
	CO410	Connected member	-53.61	-0.02	0.75	-1.08	0.03
	CO411	Main member	-10	-0.02	-2.23	-3.75	0.12
52	CO411	Connected member	19.7	0.1	-0.88	1.63	0.34
	CO411	Connected member	22.82	-0.1	1	-1.22	-0.27
	CO411	Connected member	-4.98	0.2	-0.23	0.03	0.27
52	CO411	Connected member	-20.51	-0.02	0.71	-0.94	0.03
	CO412	Main member	-79.06	-0.39	0.03	0.72	-0.11
	CO412	Connected member	-3.26	-0.78	1.73	-2.27	-1.09
52	CO412	Connected member	14.06	-0.23	1.15	-1.39	0.49
	CO412	Connected member	-18.8	-0.57	-0.03	0.24	-0.73
	CO412	Connected member	-67.96	-0.36	0.49	-0.39	0.02
52	CO413	Main member	-39.22	-0.36	0.1	1.23	-0.13
	CO413	Connected member	3.18	-0.78	1.68	-2.15	-1.11
	CO413	Connected member	12.44	-0.21	0.78	-0.73	0.51
52	CO413	Connected member	-9.94	-0.58	0.07	0.1	-0.76
	CO413	Connected member	-35.66	-0.34	0.45	-0.29	0.02
	CO414	Main member	-38.74	-0.36	0.1	1.24	-0.11
52	CO414	Connected member	3.14	-0.78	1.69	-2.15	-1.1
	CO414	Connected member	12.24	-0.22	0.78	-0.72	0.49
	CO414	Connected member	-9.85	-0.58	0.07	0.1	-0.74
52	CO414	Connected member	-35.13	-0.34	0.45	-0.3	0.04
	CO415	Main member	-1.23	-0.34	0.19	1.77	-0.1
	CO415	Connected member	6.93	-0.78	1.67	-2.06	-1.11
52	CO415	Connected member	7.71	-0.22	0.41	-0.04	0.49
	CO415	Connected member	-1.38	-0.59	0.18	-0.05	-0.77
	CO415	Connected member	-2.94	-0.32	0.42	-0.2	0.07
52	CO416	Main member	-4.37	-0.29	1.23	4.2	0.03
	CO416	Connected member	11.37	-0.54	2.77	-3.63	-0.6
	CO416	Connected member	14.23	-0.26	0.25	0.38	0.19
52	CO416	Connected member	-4.07	-0.29	0.27	0.03	-0.34
	CO416	Connected member	-6.76	-0.28	0.3	0.15	0.05
	CO417	Main member	-29.07	-0.02	-2.31	-4.18	0.12
52	CO417	Connected member	9.32	0.1	-0.88	1.58	0.34
	CO417	Connected member	17.08	-0.1	1.18	-1.64	-0.27
	CO417	Connected member	-5.43	0.2	-0.24	0.05	0.28
52	CO417	Connected member	-34.93	-0.02	0.72	-1.01	0.03
	CO418	Main member	-31.47	-0.02	-2.28	-4.02	0.12
	CO418	Connected member	23.62	0.1	-0.85	1.55	0.35
52	CO418	Connected member	31.09	-0.1	1.24	-1.61	-0.27
	CO418	Connected member	-12.63	0.21	-0.32	0.16	0.29
	CO418	Connected member	-40.21	-0.02	0.75	-1.02	0.03
52	CO419	Main member	-46.51	-0.02	-2.34	-4.37	0.12
	CO419	Connected member	15.07	0.1	-0.85	1.52	0.35
	CO419	Connected member	26.29	-0.1	1.38	-1.94	-0.28
52	CO419	Connected member	-12.77	0.21	-0.33	0.16	0.29
	CO419	Connected member	-51.58	-0.02	0.75	-1.07	0.03
	CO420	Main member	-7.25	-0.02	-2.22	-3.69	0.12
52	CO420	Connected member	21.34	0.1	-0.88	1.63	0.34
	CO420	Connected member	23.79	-0.1	0.97	-1.16	-0.27
	CO420	Connected member	-4.96	0.2	-0.23	0.03	0.27
52	CO420	Connected member	-18.48	-0.02	0.71	-0.93	0.03
	CO421	Main member	-76.3	-0.39	0.04	0.78	-0.11
	CO421	Connected member	-1.62	-0.78	1.73	-2.26	-1.09
52	CO421	Connected member	15.04	-0.23	1.12	-1.33	0.5
	CO421	Connected member	-18.78	-0.57	-0.03	0.24	-0.73
	CO421	Connected member	-65.93	-0.36	0.49	-0.38	0.02
52	CO422	Main member	-36.46	-0.36	0.11	1.29	-0.14



::LAVteam::

Page: 258/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO422	Connected member	4.81	-0.78	1.69	-2.14	-1.11
	CO422	Connected member	13.41	-0.21	0.76	-0.67	0.51
	CO422	Connected member	-9.91	-0.58	0.07	0.1	-0.76
52	CO422	Connected member	-33.63	-0.34	0.45	-0.28	0.02
	CO423	Main member	-35.98	-0.36	0.11	1.3	-0.11
	CO423	Connected member	4.78	-0.78	1.69	-2.15	-1.1
52	CO423	Connected member	13.21	-0.22	0.75	-0.66	0.49
	CO423	Connected member	-9.82	-0.58	0.07	0.1	-0.75
	CO423	Connected member	-33.1	-0.34	0.45	-0.29	0.04
52	CO424	Main member	1.52	-0.34	0.2	1.83	-0.1
	CO424	Connected member	8.56	-0.78	1.67	-2.05	-1.11
	CO424	Connected member	8.69	-0.22	0.38	0.02	0.49
52	CO424	Connected member	-1.36	-0.59	0.18	-0.05	-0.77
	CO424	Connected member	-0.91	-0.32	0.42	-0.19	0.07
	CO425	Main member	-1.62	-0.29	1.25	4.26	0.02
52	CO425	Connected member	13	-0.54	2.77	-3.63	-0.6
	CO425	Connected member	15.21	-0.26	0.23	0.44	0.19
	CO425	Connected member	-4.05	-0.29	0.27	0.03	-0.34
52	CO425	Connected member	-4.73	-0.28	0.3	0.16	0.05
	CO426	Main member	-26.32	-0.02	-2.3	-4.12	0.12
	CO426	Connected member	10.95	0.1	-0.88	1.59	0.34
52	CO426	Connected member	18.06	-0.1	1.15	-1.58	-0.27
	CO426	Connected member	-5.41	0.2	-0.24	0.05	0.28
	CO426	Connected member	-32.91	-0.02	0.72	-1	0.03
52	CO427	Main member	-28.72	-0.02	-2.27	-3.96	0.12
	CO427	Connected member	25.25	0.1	-0.85	1.55	0.35
	CO427	Connected member	32.07	-0.1	1.21	-1.55	-0.27
52	CO427	Connected member	-12.6	0.21	-0.32	0.16	0.29
	CO427	Connected member	-38.18	-0.02	0.75	-1.01	0.03
	CO428	Main member	-38.02	-0.02	-2.32	-4.26	0.12
52	CO428	Connected member	14.48	0.1	-0.86	1.55	0.35
	CO428	Connected member	23.88	-0.1	1.28	-1.79	-0.28
	CO428	Connected member	-10.21	0.21	-0.3	0.12	0.29
52	CO428	Connected member	-43.96	-0.02	0.73	-1.04	0.03
	CO429	Main member	1.24	-0.02	-2.2	-3.58	0.11
	CO429	Connected member	20.74	0.1	-0.89	1.66	0.34
52	CO429	Connected member	21.39	-0.1	0.88	-1.01	-0.27
	CO429	Connected member	-2.4	0.2	-0.19	-0.01	0.27
	CO429	Connected member	-10.86	-0.02	0.7	-0.89	0.03
52	CO430	Main member	-67.79	-0.38	0.05	0.88	-0.11
	CO430	Connected member	-2.2	-0.78	1.71	-2.22	-1.09
	CO430	Connected member	12.64	-0.23	1.03	-1.18	0.49
52	CO430	Connected member	-16.21	-0.57	0	0.19	-0.73
	CO430	Connected member	-58.31	-0.36	0.47	-0.35	0.03
	CO431	Main member	-27.96	-0.35	0.12	1.38	-0.13
52	CO431	Connected member	4.23	-0.78	1.67	-2.11	-1.11
	CO431	Connected member	11.02	-0.21	0.67	-0.52	0.51
	CO431	Connected member	-7.35	-0.58	0.1	0.05	-0.76
52	CO431	Connected member	-26	-0.34	0.43	-0.25	0.02
	CO432	Main member	-27.48	-0.36	0.12	1.39	-0.11
	CO432	Connected member	4.2	-0.77	1.68	-2.11	-1.09
52	CO432	Connected member	10.82	-0.22	0.66	-0.51	0.49
	CO432	Connected member	-7.26	-0.57	0.1	0.05	-0.75
	CO432	Connected member	-25.48	-0.34	0.44	-0.26	0.04
52	CO433	Main member	10.03	-0.34	0.22	1.92	-0.1
	CO433	Connected member	7.98	-0.78	1.66	-2.02	-1.11
	CO433	Connected member	6.29	-0.22	0.3	0.17	0.49
52	CO433	Connected member	1.2	-0.59	0.22	-0.1	-0.77
	CO433	Connected member	6.71	-0.31	0.4	-0.16	0.07
	CO434	Main member	6.89	-0.29	1.26	4.34	0.03
52	CO434	Connected member	12.42	-0.54	2.75	-3.59	-0.6
	CO434	Connected member	12.81	-0.26	0.14	0.59	0.19
	CO434	Connected member	-1.49	-0.29	0.31	-0.02	-0.34
52	CO434	Connected member	2.89	-0.28	0.28	0.19	0.05
	CO435	Main member	-17.83	-0.02	-2.28	-4.01	0.12
	CO435	Connected member	10.36	0.1	-0.89	1.62	0.34
52	CO435	Connected member	15.66	-0.1	1.06	-1.42	-0.27
	CO435	Connected member	-2.85	0.2	-0.21	0	0.28
	CO435	Connected member	-25.29	-0.02	0.7	-0.97	0.03
52	CO436	Main member	-20.23	-0.02	-2.25	-3.85	0.11
	CO436	Connected member	24.66	0.1	-0.86	1.59	0.35
	CO436	Connected member	29.67	-0.1	1.12	-1.4	-0.27
52	CO436	Connected member	-10.05	0.21	-0.29	0.11	0.29
	CO436	Connected member	-30.57	-0.02	0.74	-0.97	0.02
	CO437	Main member	-44.67	0	-1.23	-1.96	0.01
52	CO437	Connected member	-4	0	0.31	-0.18	0.02
	CO437	Connected member	5.23	-0.01	1.07	-1.44	-0.02
	CO437	Connected member	-7.93	0.01	-0.07	0.03	0.01
52	CO437	Connected member	-39.42	0	0.59	-0.73	0.01
	CO438	Main member	-39.16	0	-1.21	-1.84	0.01
	CO438	Connected member	-0.72	0	0.31	-0.17	0.02
52	CO438	Connected member	7.19	-0.01	1.02	-1.32	-0.02
	CO438	Connected member	-7.88	0.01	-0.07	0.03	0.01
	CO438	Connected member	-35.37	0	0.59	-0.72	0.01
52	CO439	Main member	-67	0	-1.28	-2.29	0.01
	CO439	Connected member	-5.55	0	0.34	-0.26	0.02
	CO439	Connected member	8.83	-0.01	1.3	-1.87	-0.02
52	CO439	Connected member	-13.03	0.01	-0.15	0.13	0.01
	CO439	Connected member	-59.07	0	0.62	-0.82	0.01
	CO440	Main member	-61.49	0	-1.26	-2.16	0.01
52	CO440	Connected member	-2.27	0	0.34	-0.25	0.02
	CO440	Connected member	10.78	-0.01	1.26	-1.75	-0.02
	CO440	Connected member	-12.99	0.01	-0.15	0.13	0.01
	CO440	Connected member	-55.01	0	0.62	-0.8	0.01



::LAV/team::

Page: 259/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO441	Main member	-73.09	0	-1.29	-2.37	0.02
	CO441	Connected member	-6.12	0	0.35	-0.28	0.02
52	CO441	Connected member	9.6	-0.01	1.37	-1.98	-0.02
	CO441	Connected member	-14.43	0.01	-0.17	0.16	0.01
52	CO441	Connected member	-64.28	0	0.63	-0.84	0.02
	CO442	Main member	-67.57	0	-1.27	-2.25	0.02
52	CO442	Connected member	-2.84	0	0.35	-0.27	0.02
	CO442	Connected member	11.55	-0.01	1.32	-1.86	-0.02
52	CO442	Connected member	-14.38	0.01	-0.16	0.16	0.01
	CO442	Connected member	-60.22	0	0.63	-0.82	0.02
52	CO443	Main member	-50.75	0	-1.25	-2.05	0.01
	CO443	Connected member	-4.57	0	0.32	-0.2	0.02
52	CO443	Connected member	6	-0.01	1.13	-1.55	-0.02
	CO443	Connected member	-9.32	0.01	-0.09	0.06	0.01
52	CO443	Connected member	-44.64	0	0.6	-0.76	0.01
	CO444	Main member	-45.24	0	-1.22	-1.93	0.01
52	CO444	Connected member	-1.29	0	0.32	-0.19	0.02
	CO444	Connected member	7.95	-0.01	1.08	-1.44	-0.02
52	CO444	Connected member	-9.28	0.01	-0.09	0.06	0.01
	CO444	Connected member	-40.58	0	0.6	-0.74	0.01
52	CO445	Main member	-37.83	-0.02	-2.32	-4.26	0.12
	CO445	Connected member	15.05	0.1	-0.86	1.55	0.35
52	CO445	Connected member	24.64	-0.1	1.29	-1.8	-0.28
	CO445	Connected member	-10.15	0.21	-0.3	0.12	0.29
52	CO445	Connected member	-44.3	-0.02	0.73	-1.04	0.03
	CO446	Main member	1.43	-0.02	-2.2	-3.58	0.11
52	CO446	Connected member	21.31	0.1	-0.89	1.66	0.34
	CO446	Connected member	22.15	-0.1	0.88	-1.02	-0.27
52	CO446	Connected member	-2.33	0.2	-0.2	-0.01	0.27
	CO446	Connected member	-11.2	-0.02	0.7	-0.89	0.03
52	CO447	Main member	-67.6	-0.38	0.05	0.88	-0.11
	CO447	Connected member	-1.63	-0.78	1.71	-2.23	-1.09
52	CO447	Connected member	13.4	-0.23	1.04	-1.19	0.49
	CO447	Connected member	-16.15	-0.57	0	0.2	-0.73
52	CO447	Connected member	-58.64	-0.36	0.47	-0.35	0.03
	CO448	Main member	-27.77	-0.35	0.12	1.38	-0.13
52	CO448	Connected member	4.8	-0.78	1.67	-2.11	-1.11
	CO448	Connected member	11.78	-0.21	0.67	-0.53	0.51
52	CO448	Connected member	-7.28	-0.58	0.1	0.06	-0.76
	CO448	Connected member	-26.34	-0.34	0.43	-0.25	0.02
52	CO449	Main member	-27.29	-0.36	0.12	1.39	-0.11
	CO449	Connected member	4.77	-0.77	1.68	-2.12	-1.1
52	CO449	Connected member	11.58	-0.22	0.67	-0.52	0.49
	CO449	Connected member	-7.19	-0.57	0.1	0.06	-0.75
52	CO449	Connected member	-25.81	-0.34	0.44	-0.26	0.04
	CO450	Main member	10.22	-0.34	0.22	1.92	-0.1
52	CO450	Connected member	8.55	-0.78	1.66	-2.02	-1.11
	CO450	Connected member	7.05	-0.21	0.3	0.16	0.49
52	CO450	Connected member	1.27	-0.59	0.21	-0.1	-0.77
	CO450	Connected member	6.37	-0.31	0.4	-0.16	0.07
52	CO451	Main member	7.08	-0.29	1.26	4.35	0.02
	CO451	Connected member	12.99	-0.54	2.75	-3.59	-0.6
52	CO451	Connected member	13.57	-0.26	0.14	0.58	0.19
	CO451	Connected member	-1.42	-0.29	0.31	-0.02	-0.34
52	CO451	Connected member	2.55	-0.28	0.28	0.19	0.05
	CO452	Main member	-17.64	-0.02	-2.28	-4.01	0.12
52	CO452	Connected member	10.93	0.1	-0.89	1.62	0.34
	CO452	Connected member	16.41	-0.1	1.06	-1.43	-0.27
52	CO452	Connected member	-2.78	0.2	-0.21	0.01	0.28
	CO452	Connected member	-25.62	-0.02	0.7	-0.97	0.03
52	CO453	Main member	-20.04	-0.02	-2.25	-3.85	0.11
	CO453	Connected member	25.23	0.1	-0.86	1.58	0.35
52	CO453	Connected member	30.42	-0.1	1.12	-1.41	-0.27
	CO453	Connected member	-9.98	0.21	-0.29	0.12	0.29
52	CO453	Connected member	-30.9	-0.02	0.74	-0.97	0.02
	CO454	Main member	-32.32	-0.02	-2.3	-4.13	0.12
52	CO454	Connected member	18.32	0.1	-0.86	1.56	0.35
	CO454	Connected member	26.59	-0.1	1.24	-1.68	-0.28
52	CO454	Connected member	-10.1	0.21	-0.3	0.12	0.29
	CO454	Connected member	-40.24	-0.02	0.73	-1.02	0.03
52	CO455	Main member	6.93	-0.02	-2.18	-3.45	0.11
	CO455	Connected member	24.58	0.1	-0.89	1.67	0.33
52	CO455	Connected member	24.09	-0.09	0.83	-0.9	-0.27
	CO455	Connected member	-2.29	0.2	-0.2	-0.01	0.27
52	CO455	Connected member	-7.15	-0.02	0.7	-0.87	0.03
	CO456	Main member	-62.09	-0.38	0.07	1	-0.11
52	CO456	Connected member	1.65	-0.78	1.72	-2.22	-1.09
	CO456	Connected member	15.35	-0.23	0.99	-1.08	0.49
52	CO456	Connected member	-16.1	-0.57	0	0.19	-0.73
	CO456	Connected member	-54.58	-0.36	0.47	-0.34	0.02
52	CO457	Main member	-22.26	-0.35	0.14	1.5	-0.14
	CO457	Connected member	8.08	-0.78	1.67	-2.1	-1.11
52	CO457	Connected member	13.73	-0.21	0.62	-0.42	0.51
	CO457	Connected member	-7.23	-0.58	0.1	0.06	-0.76
52	CO457	Connected member	-22.28	-0.34	0.43	-0.23	0.02
	CO458	Main member	-21.78	-0.35	0.15	1.51	-0.12
52	CO458	Connected member	8.04	-0.78	1.68	-2.1	-1.1
	CO458	Connected member	13.53	-0.22	0.62	-0.41	0.49
52	CO458	Connected member	-7.15	-0.58	0.1	0.06	-0.75
	CO458	Connected member	-21.76	-0.34	0.44	-0.24	0.04
52	CO459	Main member	15.72	-0.33	0.24	2.05	-0.1
	CO459	Connected member	11.82	-0.78	1.66	-2.01	-1.11
52	CO459	Connected member	9	-0.21	0.25	0.27	0.49
	CO459	Connected member	1.32	-0.59	0.21	-0.1	-0.77



::LAV/team::

Page: 260/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO459	Connected member	10.43	-0.31	0.4	-0.14	0.07
	CO460	Main member	12.58	-0.29	1.28	4.47	0.02
	CO460	Connected member	16.26	-0.54	2.76	-3.58	-0.6
	CO460	Connected member	15.52	-0.26	0.09	0.69	0.19
	CO460	Connected member	-1.37	-0.29	0.31	-0.02	-0.34
52	CO460	Connected member	6.61	-0.28	0.28	0.21	0.05
	CO461	Main member	-12.13	-0.02	-2.26	-3.88	0.12
	CO461	Connected member	14.2	0.1	-0.89	1.63	0.34
	CO461	Connected member	18.36	-0.1	1.01	-1.31	-0.27
	CO461	Connected member	-2.73	0.2	-0.21	0.01	0.28
52	CO461	Connected member	-21.57	-0.02	0.7	-0.95	0.03
	CO462	Main member	-14.53	-0.02	-2.23	-3.72	0.11
	CO462	Connected member	28.49	0.1	-0.86	1.59	0.35
	CO462	Connected member	32.37	-0.1	1.07	-1.29	-0.27
	CO462	Connected member	-9.93	0.21	-0.29	0.12	0.29
52	CO462	Connected member	-26.85	-0.02	0.74	-0.95	0.02
	CO463	Main member	-43.9	-0.02	-2.34	-4.35	0.12
	CO463	Connected member	14.48	0.1	-0.86	1.53	0.35
	CO463	Connected member	25.41	-0.1	1.35	-1.91	-0.28
	CO463	Connected member	-11.54	0.21	-0.32	0.15	0.29
52	CO463	Connected member	-49.51	-0.02	0.74	-1.06	0.03
	CO464	Main member	-4.64	-0.02	-2.22	-3.67	0.12
	CO464	Connected member	20.75	0.1	-0.89	1.64	0.34
	CO464	Connected member	22.92	-0.1	0.95	-1.13	-0.27
	CO464	Connected member	-3.73	0.2	-0.22	0.02	0.27
52	CO464	Connected member	-16.4	-0.02	0.71	-0.92	0.03
	CO465	Main member	-73.69	-0.38	0.04	0.79	-0.11
	CO465	Connected member	-2.2	-0.78	1.72	-2.25	-1.09
	CO465	Connected member	14.17	-0.23	1.1	-1.3	0.5
	CO465	Connected member	-17.55	-0.57	-0.02	0.22	-0.73
52	CO465	Connected member	-63.85	-0.36	0.48	-0.38	0.02
	CO466	Main member	-33.85	-0.35	0.11	1.3	-0.14
	CO466	Connected member	4.23	-0.78	1.68	-2.13	-1.11
	CO466	Connected member	12.54	-0.21	0.73	-0.64	0.51
	CO466	Connected member	-8.68	-0.58	0.08	0.09	-0.76
52	CO466	Connected member	-31.55	-0.34	0.44	-0.27	0.02
	CO467	Main member	-33.37	-0.36	0.11	1.31	-0.11
	CO467	Connected member	4.19	-0.78	1.68	-2.14	-1.1
	CO467	Connected member	12.34	-0.22	0.73	-0.63	0.5
	CO467	Connected member	-8.59	-0.58	0.08	0.09	-0.75
52	CO467	Connected member	-31.03	-0.34	0.45	-0.28	0.04
	CO468	Main member	4.14	-0.34	0.2	1.84	-0.1
	CO468	Connected member	7.98	-0.78	1.67	-2.04	-1.11
	CO468	Connected member	7.82	-0.22	0.36	0.05	0.49
	CO468	Connected member	-0.13	-0.59	0.19	-0.07	-0.77
52	CO468	Connected member	1.16	-0.32	0.41	-0.18	0.07
	CO469	Main member	1	-0.29	1.25	4.27	0.02
	CO469	Connected member	12.42	-0.54	2.76	-3.62	-0.6
	CO469	Connected member	14.34	-0.26	0.2	0.47	0.2
	CO469	Connected member	-2.82	-0.29	0.29	0.01	-0.34
52	CO469	Connected member	-2.66	-0.28	0.29	0.17	0.05
	CO470	Main member	-23.71	-0.02	-2.3	-4.1	0.12
	CO470	Connected member	10.37	0.1	-0.88	1.6	0.34
	CO470	Connected member	17.18	-0.1	1.13	-1.55	-0.27
	CO470	Connected member	-4.17	0.2	-0.23	0.03	0.28
52	CO470	Connected member	-30.83	-0.02	0.71	-0.99	0.03
	CO471	Main member	-26.11	-0.02	-2.26	-3.94	0.12
	CO471	Connected member	24.66	0.1	-0.86	1.56	0.35
	CO471	Connected member	31.19	-0.1	1.19	-1.52	-0.27
	CO471	Connected member	-11.37	0.21	-0.31	0.14	0.29
52	CO471	Connected member	-36.11	-0.02	0.74	-1	0.02
	CO472	Main member	-38.39	-0.02	-2.31	-4.22	0.12
	CO472	Connected member	17.76	0.1	-0.86	1.54	0.35
	CO472	Connected member	27.36	-0.1	1.3	-1.79	-0.28
	CO472	Connected member	-11.5	0.21	-0.32	0.15	0.29
52	CO472	Connected member	-45.45	-0.02	0.74	-1.04	0.03
	CO473	Main member	0.86	-0.02	-2.19	-3.54	0.12
	CO473	Connected member	24.02	0.1	-0.89	1.65	0.33
	CO473	Connected member	24.86	-0.1	0.9	-1.01	-0.27
	CO473	Connected member	-3.68	0.2	-0.22	0.02	0.27
52	CO473	Connected member	-12.35	-0.02	0.71	-0.9	0.03
	CO474	Main member	-68.17	-0.38	0.06	0.91	-0.11
	CO474	Connected member	1.08	-0.78	1.72	-2.24	-1.09
	CO474	Connected member	16.12	-0.23	1.05	-1.19	0.5
	CO474	Connected member	-17.5	-0.57	-0.02	0.22	-0.73
52	CO474	Connected member	-59.79	-0.36	0.48	-0.36	0.02
	CO475	Main member	-28.34	-0.35	0.13	1.42	-0.14
	CO475	Connected member	7.51	-0.78	1.68	-2.12	-1.11
	CO475	Connected member	14.49	-0.21	0.68	-0.53	0.51
	CO475	Connected member	-8.63	-0.58	0.08	0.08	-0.76
52	CO475	Connected member	-27.49	-0.34	0.44	-0.26	0.02
	CO476	Main member	-27.86	-0.36	0.13	1.43	-0.12
	CO476	Connected member	7.47	-0.78	1.69	-2.13	-1.1
	CO476	Connected member	14.29	-0.22	0.68	-0.52	0.5
	CO476	Connected member	-8.54	-0.58	0.08	0.08	-0.75
52	CO476	Connected member	-26.97	-0.34	0.45	-0.26	0.04
	CO477	Main member	9.65	-0.34	0.23	1.96	-0.1
	CO477	Connected member	11.25	-0.78	1.67	-2.03	-1.11
	CO477	Connected member	9.77	-0.21	0.31	0.16	0.49
	CO477	Connected member	-0.08	-0.59	0.19	-0.07	-0.77
52	CO477	Connected member	5.22	-0.32	0.41	-0.16	0.07
	CO478	Main member	6.5	-0.29	1.27	4.39	0.02
	CO478	Connected member	15.69	-0.54	2.76	-3.6	-0.6
		Connected member	16.29	-0.26	0.15	0.58	0.2



::LAV/team::

Page: 261/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO478	Connected member	-2.77	-0.29	0.29	0.01	-0.34
	CO478	Connected member	1.4	-0.28	0.29	0.19	0.05
52	CO479	Main member	-18.2	-0.02	-2.27	-3.97	0.12
	CO479	Connected member	13.64	0.1	-0.88	1.61	0.34
52	CO479	Connected member	19.13	-0.1	1.08	-1.43	-0.27
	CO479	Connected member	-4.13	0.2	-0.23	0.03	0.28
52	CO479	Connected member	-26.78	-0.02	0.71	-0.97	0.03
	CO480	Main member	-20.6	-0.02	-2.24	-3.81	0.11
52	CO480	Connected member	27.93	0.1	-0.86	1.57	0.35
	CO480	Connected member	33.14	-0.1	1.14	-1.41	-0.27
52	CO480	Connected member	-11.33	0.21	-0.31	0.14	0.29
	CO480	Connected member	-32.06	-0.02	0.74	-0.98	0.02
52	CO481	Main member	-21.6	-0.02	-2.28	-4.01	0.11
	CO481	Connected member	16	0.1	-0.88	1.6	0.35
52	CO481	Connected member	21.8	-0.1	1.11	-1.48	-0.28
	CO481	Connected member	-6.44	0.21	-0.24	0.05	0.29
52	CO481	Connected member	-29.88	-0.02	0.71	-0.97	0.02
	CO482	Main member	17.65	-0.02	-2.16	-3.32	0.11
52	CO482	Connected member	22.26	0.1	-0.91	1.71	0.33
	CO482	Connected member	19.31	-0.09	0.71	-0.7	-0.27
52	CO482	Connected member	1.37	0.2	-0.14	-0.08	0.27
	CO482	Connected member	3.22	-0.02	0.67	-0.83	0.03
52	CO483	Main member	-51.35	-0.37	0.08	1.1	-0.11
	CO483	Connected member	-0.65	-0.77	1.69	-2.16	-1.09
52	CO483	Connected member	10.57	-0.23	0.87	-0.88	0.49
	CO483	Connected member	-12.44	-0.57	0.06	0.11	-0.73
52	CO483	Connected member	-44.21	-0.35	0.45	-0.3	0.03
	CO484	Main member	-11.52	-0.34	0.16	1.61	-0.13
52	CO484	Connected member	5.78	-0.77	1.65	-2.05	-1.11
	CO484	Connected member	8.95	-0.21	0.5	-0.22	0.5
52	CO484	Connected member	-3.57	-0.58	0.16	-0.02	-0.76
	CO484	Connected member	-11.91	-0.33	0.41	-0.19	0.03
52	CO485	Main member	-11.04	-0.35	0.16	1.62	-0.11
	CO485	Connected member	5.74	-0.77	1.66	-2.05	-1.09
52	CO485	Connected member	8.75	-0.22	0.5	-0.21	0.49
	CO485	Connected member	-3.48	-0.57	0.16	-0.02	-0.75
52	CO485	Connected member	-11.39	-0.33	0.41	-0.2	0.05
	CO486	Main member	26.47	-0.33	0.26	2.15	-0.1
52	CO486	Connected member	9.52	-0.78	1.64	-1.96	-1.11
	CO486	Connected member	4.22	-0.22	0.13	0.47	0.48
52	CO486	Connected member	4.98	-0.58	0.27	-0.17	-0.77
	CO486	Connected member	20.79	-0.31	0.37	-0.1	0.07
52	CO487	Main member	23.33	-0.28	1.3	4.56	0.02
	CO487	Connected member	13.96	-0.54	2.73	-3.53	-0.6
52	CO487	Connected member	10.74	-0.26	-0.03	0.88	0.19
	CO487	Connected member	2.29	-0.29	0.36	-0.1	-0.34
52	CO487	Connected member	16.98	-0.27	0.25	0.25	0.06
	CO488	Main member	-1.41	-0.02	-2.24	-3.75	0.11
52	CO488	Connected member	11.88	0.1	-0.91	1.67	0.34
	CO488	Connected member	13.58	-0.1	0.89	-1.11	-0.27
52	CO488	Connected member	0.93	0.2	-0.15	-0.07	0.28
	CO488	Connected member	-11.21	-0.02	0.68	-0.9	0.03
52	CO489	Main member	-3.81	-0.02	-2.2	-3.59	0.11
	CO489	Connected member	26.17	0.1	-0.88	1.64	0.35
52	CO489	Connected member	27.58	-0.1	0.95	-1.09	-0.27
	CO489	Connected member	-6.27	0.21	-0.23	0.04	0.28
52	CO489	Connected member	-16.49	-0.02	0.71	-0.91	0.02
	CO490	Main member	-16.09	-0.02	-2.26	-3.88	0.11
52	CO490	Connected member	19.27	0.1	-0.88	1.61	0.35
	CO490	Connected member	23.75	-0.1	1.06	-1.36	-0.28
52	CO490	Connected member	-6.4	0.21	-0.24	0.05	0.29
	CO490	Connected member	-25.83	-0.02	0.71	-0.95	0.02
52	CO491	Main member	23.16	-0.02	-2.13	-3.19	0.11
	CO491	Connected member	25.52	0.1	-0.91	1.72	0.33
52	CO491	Connected member	21.25	-0.09	0.66	-0.58	-0.26
	CO491	Connected member	1.42	0.2	-0.14	-0.08	0.27
52	CO491	Connected member	7.27	-0.02	0.67	-0.81	0.03
	CO492	Main member	-45.84	-0.37	0.1	1.22	-0.11
52	CO492	Connected member	2.63	-0.77	1.69	-2.15	-1.09
	CO492	Connected member	12.52	-0.23	0.82	-0.77	0.49
52	CO492	Connected member	-12.39	-0.57	0.06	0.11	-0.74
	CO492	Connected member	-40.16	-0.35	0.45	-0.28	0.03
52	CO493	Main member	-6.01	-0.34	0.18	1.73	-0.14
	CO493	Connected member	9.05	-0.78	1.65	-2.04	-1.11
52	CO493	Connected member	10.9	-0.21	0.45	-0.11	0.5
	CO493	Connected member	-3.52	-0.58	0.16	-0.02	-0.77
52	CO493	Connected member	-7.86	-0.33	0.41	-0.17	0.03
	CO494	Main member	-5.53	-0.35	0.18	1.74	-0.11
52	CO494	Connected member	9.01	-0.77	1.66	-2.04	-1.09
	CO494	Connected member	10.7	-0.22	0.45	-0.1	0.49
52	CO494	Connected member	-3.43	-0.57	0.16	-0.02	-0.75
	CO494	Connected member	-7.33	-0.33	0.41	-0.18	0.04
52	CO495	Main member	31.97	-0.33	0.28	2.28	-0.1
	CO495	Connected member	12.78	-0.78	1.64	-1.95	-1.11
52	CO495	Connected member	6.17	-0.21	0.08	0.58	0.49
	CO495	Connected member	5.03	-0.59	0.27	-0.18	-0.77
52	CO495	Connected member	24.85	-0.31	0.37	-0.08	0.07
	CO496	Main member	28.83	-0.28	1.32	4.69	0.02
52	CO496	Connected member	17.22	-0.54	2.73	-3.52	-0.6
	CO496	Connected member	12.69	-0.26	-0.07	1	0.19
52	CO496	Connected member	2.34	-0.29	0.37	-0.1	-0.35
	CO496	Connected member	21.03	-0.27	0.25	0.27	0.06
52	CO497	Main member	4.1	-0.02	-2.21	-3.63	0.11
	CO497	Connected member	15.15	0.1	-0.91	1.68	0.34



::LAV/team::

Page: 262/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO497	Connected member	15.52	-0.1	0.84	-0.99	-0.27
	CO497	Connected member	0.97	0.2	-0.15	-0.07	0.28
	CO497	Connected member	-7.15	-0.02	0.68	-0.88	0.03
52	CO498	Main member	1.69	-0.02	-2.18	-3.47	0.11
	CO498	Connected member	29.44	0.1	-0.88	1.65	0.35
	CO498	Connected member	29.53	-0.1	0.9	-0.97	-0.27
52	CO498	Connected member	-6.23	0.21	-0.23	0.04	0.28
	CO498	Connected member	-12.44	-0.02	0.71	-0.89	0.02
	CO499	Main member	-15.53	-0.02	-2.26	-3.91	0.11
52	CO499	Connected member	16.57	0.1	-0.89	1.62	0.35
	CO499	Connected member	21.03	-0.1	1.05	-1.36	-0.28
	CO499	Connected member	-5.05	0.21	-0.22	0.02	0.29
52	CO499	Connected member	-24.68	-0.02	0.7	-0.95	0.02
	CO500	Main member	23.72	-0.02	-2.14	-3.22	0.11
	CO500	Connected member	22.82	0.1	-0.92	1.73	0.33
52	CO500	Connected member	18.54	-0.09	0.65	-0.58	-0.26
	CO500	Connected member	2.76	0.2	-0.12	-0.11	0.27
	CO500	Connected member	8.42	-0.02	0.66	-0.8	0.03
52	CO501	Main member	-45.27	-0.37	0.09	1.18	-0.11
	CO501	Connected member	-0.08	-0.77	1.68	-2.14	-1.09
	CO501	Connected member	9.8	-0.23	0.81	-0.77	0.49
52	CO501	Connected member	-11.04	-0.57	0.08	0.09	-0.73
	CO501	Connected member	-39	-0.35	0.44	-0.27	0.03
	CO502	Main member	-5.44	-0.34	0.17	1.69	-0.13
52	CO502	Connected member	6.35	-0.77	1.64	-2.02	-1.1
	CO502	Connected member	8.18	-0.21	0.44	-0.11	0.5
	CO502	Connected member	-2.18	-0.58	0.18	-0.05	-0.76
52	CO502	Connected member	-6.7	-0.33	0.4	-0.17	0.03
	CO503	Main member	-4.96	-0.35	0.17	1.7	-0.11
	CO503	Connected member	6.31	-0.77	1.65	-2.03	-1.09
52	CO503	Connected member	7.98	-0.22	0.44	-0.1	0.49
	CO503	Connected member	-2.09	-0.57	0.18	-0.05	-0.75
	CO503	Connected member	-6.18	-0.33	0.4	-0.18	0.05
52	CO504	Main member	32.54	-0.33	0.27	2.24	-0.1
	CO504	Connected member	10.08	-0.78	1.63	-1.94	-1.11
	CO504	Connected member	3.46	-0.21	0.07	0.58	0.48
52	CO504	Connected member	6.38	-0.58	0.29	-0.2	-0.77
	CO504	Connected member	26	-0.3	0.36	-0.07	0.08
	CO505	Main member	29.41	-0.28	1.31	4.65	0.02
52	CO505	Connected member	14.53	-0.54	2.72	-3.5	-0.6
	CO505	Connected member	9.97	-0.26	-0.09	0.99	0.19
	CO505	Connected member	3.69	-0.29	0.38	-0.13	-0.35
52	CO505	Connected member	22.19	-0.27	0.24	0.28	0.06
	CO506	Main member	4.67	-0.02	-2.22	-3.66	0.11
	CO506	Connected member	12.45	0.1	-0.91	1.69	0.34
52	CO506	Connected member	12.81	-0.1	0.83	-1	-0.27
	CO506	Connected member	2.32	0.2	-0.13	-0.09	0.28
	CO506	Connected member	-6	-0.02	0.67	-0.88	0.03
52	CO507	Main member	2.26	-0.02	-2.19	-3.5	0.11
	CO507	Connected member	26.73	0.11	-0.89	1.66	0.35
	CO507	Connected member	26.81	-0.1	0.89	-0.97	-0.27
52	CO507	Connected member	-4.88	0.21	-0.21	0.02	0.28
	CO507	Connected member	-11.28	-0.02	0.7	-0.88	0.02
	CO508	Main member	-10.02	-0.02	-2.24	-3.78	0.11
52	CO508	Connected member	19.83	0.11	-0.89	1.63	0.35
	CO508	Connected member	22.98	-0.1	1	-1.24	-0.28
	CO508	Connected member	-5	0.21	-0.22	0.02	0.29
52	CO508	Connected member	-20.62	-0.02	0.7	-0.93	0.02
	CO509	Main member	29.23	-0.02	-2.11	-3.1	0.11
	CO509	Connected member	26.08	0.1	-0.92	1.74	0.33
52	CO509	Connected member	20.48	-0.09	0.6	-0.46	-0.26
	CO509	Connected member	2.81	0.19	-0.12	-0.11	0.27
	CO509	Connected member	12.47	-0.02	0.66	-0.78	0.03
52	CO510	Main member	-39.76	-0.37	0.11	1.3	-0.11
	CO510	Connected member	3.2	-0.77	1.69	-2.13	-1.09
	CO510	Connected member	11.75	-0.23	0.76	-0.66	0.49
52	CO510	Connected member	-10.99	-0.57	0.08	0.09	-0.74
	CO510	Connected member	-34.94	-0.35	0.44	-0.26	0.03
	CO511	Main member	0.07	-0.34	0.19	1.82	-0.14
52	CO511	Connected member	9.62	-0.77	1.64	-2.01	-1.11
	CO511	Connected member	10.13	-0.21	0.39	0	0.5
	CO511	Connected member	-2.13	-0.58	0.18	-0.05	-0.77
52	CO511	Connected member	-2.65	-0.33	0.4	-0.15	0.03
	CO512	Main member	0.55	-0.34	0.2	1.83	-0.11
52	CO512	Connected member	9.58	-0.77	1.65	-2.02	-1.09
	CO512	Connected member	9.93	-0.22	0.39	0.01	0.49
	CO512	Connected member	-2.04	-0.57	0.18	-0.05	-0.75
52	CO512	Connected member	-2.12	-0.33	0.4	-0.16	0.05
	CO513	Main member	38.05	-0.32	0.3	2.36	-0.1
52	CO513	Connected member	13.35	-0.78	1.63	-1.92	-1.11
	CO513	Connected member	5.41	-0.21	0.02	0.7	0.48
	CO513	Connected member	6.42	-0.58	0.29	-0.2	-0.77
52	CO513	Connected member	30.06	-0.3	0.36	-0.05	0.08
	CO514	Main member	34.91	-0.28	1.34	4.77	0.02
	CO514	Connected member	17.79	-0.54	2.73	-3.49	-0.6
52	CO514	Connected member	11.92	-0.26	-0.13	1.11	0.19
	CO514	Connected member	3.74	-0.29	0.39	-0.13	-0.35
	CO514	Connected member	26.24	-0.27	0.24	0.29	0.06
52	CO515	Main member	10.17	-0.02	-2.2	-3.53	0.11
	CO515	Connected member	15.71	0.1	-0.91	1.7	0.34
	CO515	Connected member	14.75	-0.1	0.78	-0.88	-0.27
52	CO515	Connected member	2.37	0.2	-0.13	-0.09	0.28
	CO515	Connected member	-1.95	-0.02	0.67	-0.86	0.03
	CO516	Main member	7.76	-0.02	-2.16	-3.37	0.11



::LAV/team::

Page: 263/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO516	Connected member	30	0.11	-0.89	1.67	0.35
	CO516	Connected member	28.76	-0.1	0.84	-0.85	-0.27
	CO516	Connected member	-4.83	0.21	-0.21	0.02	0.28
	CO516	Connected member	-7.23	-0.02	0.7	-0.86	0.02
52	CO517	Main member	26.32	-0.03	-2.88	-4.83	0.17
	CO517	Connected member	32.3	0.18	-1.72	2.89	0.57
	CO517	Connected member	28.69	-0.16	0.8	-0.87	-0.44
	CO517	Connected member	2.02	0.34	-0.26	-0.07	0.47
52	CO517	Connected member	4.4	-0.04	0.74	-0.99	0.02
	CO518	Main member	91.66	-0.03	-2.63	-3.63	0.17
	CO518	Connected member	42.64	0.17	-1.78	3.07	0.55
	CO518	Connected member	24.51	-0.15	0.12	0.45	-0.43
52	CO518	Connected member	15.02	0.32	-0.09	-0.28	0.44
	CO518	Connected member	59.51	-0.03	0.67	-0.74	0.03
	CO519	Main member	-23.15	-0.59	1.02	3.57	-0.19
	CO519	Connected member	4.65	-1.29	2.57	-3.36	-1.82
52	CO519	Connected member	10	-0.37	0.41	0.07	0.82
	CO519	Connected member	-7.94	-0.95	0.26	0.02	-1.23
	CO519	Connected member	-19.41	-0.56	0.3	0.11	0.06
	CO520	Main member	43.23	-0.52	1.16	4.4	-0.23
52	CO520	Connected member	15.34	-1.28	2.5	-3.16	-1.84
	CO520	Connected member	7.31	-0.34	-0.2	1.17	0.83
	CO520	Connected member	6.84	-0.96	0.42	-0.21	-1.28
	CO520	Connected member	34.41	-0.51	0.23	0.28	0.07
52	CO521	Main member	44.02	-0.53	1.17	4.42	-0.19
	CO521	Connected member	15.28	-1.28	2.51	-3.17	-1.82
	CO521	Connected member	6.98	-0.35	-0.21	1.19	0.81
	CO521	Connected member	6.98	-0.95	0.42	-0.21	-1.26
52	CO521	Connected member	35.28	-0.51	0.24	0.27	0.09
	CO522	Main member	106.51	-0.48	1.36	5.31	-0.17
	CO522	Connected member	21.54	-1.28	2.48	-3.01	-1.83
	CO522	Connected member	-0.55	-0.34	-0.81	2.31	0.79
52	CO522	Connected member	21.09	-0.97	0.61	-0.46	-1.29
	CO522	Connected member	88.9	-0.45	0.16	0.45	0.16
	CO523	Main member	101.29	-0.42	3.08	9.24	0.03
	CO523	Connected member	28.95	-0.88	4.29	-5.6	-0.99
52	CO523	Connected member	10.3	-0.41	-1.06	2.97	0.31
	CO523	Connected member	16.62	-0.48	0.77	-0.35	-0.59
	CO523	Connected member	82.55	-0.41	-0.05	1.02	0.12
	CO524	Main member	59.95	-0.03	-2.79	-4.38	0.17
52	CO524	Connected member	25.41	0.17	-1.76	3	0.56
	CO524	Connected member	14.98	-0.15	0.42	-0.25	-0.44
	CO524	Connected member	14.29	0.33	-0.11	-0.26	0.45
	CO524	Connected member	35.51	-0.03	0.68	-0.87	0.03
52	CO525	Main member	55.92	-0.03	-2.74	-4.12	0.17
	CO525	Connected member	49.2	0.18	-1.73	2.95	0.57
	CO525	Connected member	38.3	-0.15	0.52	-0.22	-0.44
	CO525	Connected member	2.29	0.34	-0.24	-0.08	0.46
52	CO525	Connected member	26.69	-0.04	0.74	-0.88	0.02
	CO526	Main member	4.04	-0.03	-2.94	-5.19	0.18
	CO526	Connected member	30.81	0.18	-1.7	2.82	0.58
	CO526	Connected member	32.31	-0.16	1.04	-1.31	-0.44
52	CO526	Connected member	-3.07	0.34	-0.33	0.03	0.47
	CO526	Connected member	-15.21	-0.04	0.78	-1.09	0.03
	CO527	Main member	69.39	-0.03	-2.71	-4	0.17
	CO527	Connected member	41.16	0.17	-1.75	2.99	0.55
52	CO527	Connected member	28.12	-0.15	0.36	0	-0.43
	CO527	Connected member	9.93	0.32	-0.17	-0.18	0.44
	CO527	Connected member	39.91	-0.03	0.7	-0.83	0.04
	CO528	Main member	-45.48	-0.61	0.97	3.27	-0.2
52	CO528	Connected member	3.11	-1.29	2.6	-3.45	-1.82
	CO528	Connected member	13.6	-0.37	0.63	-0.34	0.84
	CO528	Connected member	-13.05	-0.95	0.18	0.13	-1.23
	CO528	Connected member	-39.05	-0.58	0.34	0.03	0.04
52	CO529	Main member	20.91	-0.54	1.11	4.1	-0.24
	CO529	Connected member	13.81	-1.29	2.53	-3.25	-1.85
	CO529	Connected member	10.9	-0.34	0.03	0.75	0.85
	CO529	Connected member	1.73	-0.96	0.34	-0.1	-1.28
52	CO529	Connected member	14.78	-0.53	0.26	0.2	0.05
	CO530	Main member	21.7	-0.55	1.11	4.12	-0.2
	CO530	Connected member	13.74	-1.28	2.54	-3.26	-1.82
	CO530	Connected member	10.57	-0.35	0.02	0.77	0.82
52	CO530	Connected member	1.88	-0.96	0.34	-0.1	-1.26
	CO530	Connected member	15.65	-0.53	0.27	0.19	0.08
	CO531	Main member	84.2	-0.5	1.29	4.99	-0.17
	CO531	Connected member	20.02	-1.29	2.51	-3.09	-1.84
52	CO531	Connected member	3.04	-0.34	-0.59	1.89	0.8
	CO531	Connected member	15.98	-0.97	0.53	-0.36	-1.29
	CO531	Connected member	69.28	-0.47	0.2	0.36	0.15
	CO532	Main member	78.97	-0.43	3.01	8.95	0.03
52	CO532	Connected member	27.42	-0.88	4.33	-5.69	-0.99
	CO532	Connected member	13.89	-0.41	-0.84	2.56	0.32
	CO532	Connected member	11.51	-0.48	0.69	-0.24	-0.59
	CO532	Connected member	62.92	-0.42	-0.01	0.93	0.1
52	CO533	Main member	37.67	-0.03	-2.86	-4.74	0.18
	CO533	Connected member	23.92	0.17	-1.74	2.93	0.56
	CO533	Connected member	18.59	-0.15	0.66	-0.69	-0.44
	CO533	Connected member	9.2	0.33	-0.19	-0.16	0.45
52	CO533	Connected member	15.9	-0.03	0.72	-0.96	0.04
	CO534	Main member	33.65	-0.03	-2.81	-4.49	0.18
	CO534	Connected member	47.72	0.18	-1.7	2.88	0.57
	CO534	Connected member	41.92	-0.16	0.76	-0.66	-0.44
	CO534	Connected member	-2.8	0.34	-0.32	0.02	0.47
	CO534	Connected member	7.09	-0.04	0.77	-0.98	0.02



::LAV/team::

Page: 264/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO535	Main member	-2.02	-0.03	-2.96	-5.29	0.18
	CO535	Connected member	30.25	0.18	-1.69	2.8	0.58
	CO535	Connected member	33.08	-0.16	1.1	-1.43	-0.44
52	CO535	Connected member	-4.47	0.34	-0.35	0.05	0.47
	CO535	Connected member	-20.42	-0.04	0.79	-1.11	0.03
	CO536	Main member	63.33	-0.03	-2.73	-4.1	0.18
52	CO536	Connected member	40.61	0.17	-1.74	2.98	0.55
	CO536	Connected member	28.9	-0.15	0.42	-0.11	-0.43
	CO536	Connected member	8.54	0.32	-0.19	-0.15	0.44
52	CO536	Connected member	34.71	-0.03	0.71	-0.86	0.04
	CO537	Main member	-51.56	-0.61	0.96	3.19	-0.2
	CO537	Connected member	2.54	-1.29	2.61	-3.48	-1.82
52	CO537	Connected member	14.37	-0.37	0.69	-0.45	0.84
	CO537	Connected member	-14.45	-0.95	0.16	0.16	-1.23
	CO537	Connected member	-44.26	-0.58	0.35	0.01	0.04
52	CO538	Main member	14.83	-0.54	1.09	4.02	-0.24
	CO538	Connected member	13.24	-1.29	2.54	-3.27	-1.85
	CO538	Connected member	11.67	-0.34	0.09	0.64	0.85
52	CO538	Connected member	0.33	-0.96	0.32	-0.07	-1.28
	CO538	Connected member	9.57	-0.53	0.27	0.18	0.05
	CO539	Main member	15.62	-0.55	1.1	4.03	-0.2
52	CO539	Connected member	13.18	-1.29	2.55	-3.28	-1.83
	CO539	Connected member	11.33	-0.35	0.08	0.66	0.83
	CO539	Connected member	0.48	-0.96	0.32	-0.07	-1.25
52	CO539	Connected member	10.44	-0.53	0.28	0.17	0.07
	CO540	Main member	78.12	-0.5	1.27	4.91	-0.17
	CO540	Connected member	19.45	-1.29	2.51	-3.12	-1.84
52	CO540	Connected member	3.8	-0.34	-0.53	1.78	0.81
	CO540	Connected member	14.59	-0.97	0.51	-0.33	-1.29
	CO540	Connected member	64.07	-0.47	0.21	0.34	0.14
52	CO541	Main member	72.9	-0.43	3	8.87	0.03
	CO541	Connected member	26.86	-0.88	4.34	-5.71	-1
	CO541	Connected member	14.66	-0.41	-0.78	2.46	0.32
52	CO541	Connected member	10.11	-0.48	0.67	-0.21	-0.59
	CO541	Connected member	57.71	-0.43	0.01	0.91	0.1
	CO542	Main member	31.6	-0.03	-2.88	-4.84	0.18
52	CO542	Connected member	23.37	0.17	-1.73	2.91	0.56
	CO542	Connected member	19.36	-0.15	0.72	-0.81	-0.44
	CO542	Connected member	7.81	0.33	-0.21	-0.14	0.45
52	CO542	Connected member	10.69	-0.03	0.73	-0.99	0.04
	CO543	Main member	27.59	-0.03	-2.83	-4.59	0.18
	CO543	Connected member	47.17	0.18	-1.7	2.86	0.57
52	CO543	Connected member	42.69	-0.16	0.82	-0.77	-0.44
	CO543	Connected member	-4.19	0.34	-0.34	0.05	0.47
	CO543	Connected member	1.88	-0.04	0.78	-1	0.02
52	CO544	Main member	20.26	-0.03	-2.9	-4.93	0.18
	CO544	Connected member	31.75	0.18	-1.72	2.88	0.58
	CO544	Connected member	29.46	-0.16	0.86	-0.99	-0.44
52	CO544	Connected member	0.63	0.34	-0.28	-0.04	0.47
	CO544	Connected member	-0.81	-0.04	0.75	-1.02	0.03
	CO545	Main member	85.6	-0.03	-2.65	-3.73	0.17
52	CO545	Connected member	42.09	0.17	-1.77	3.05	0.55
	CO545	Connected member	25.28	-0.15	0.18	0.33	-0.43
	CO545	Connected member	13.63	0.32	-0.11	-0.25	0.44
52	CO545	Connected member	54.31	-0.03	0.68	-0.76	0.03
	CO546	Main member	-29.23	-0.59	1	3.49	-0.19
	CO546	Connected member	4.08	-1.29	2.58	-3.39	-1.82
52	CO546	Connected member	10.77	-0.37	0.47	-0.04	0.83
	CO546	Connected member	-9.34	-0.95	0.24	0.05	-1.23
	CO546	Connected member	-24.63	-0.56	0.31	0.09	0.05
52	CO547	Main member	37.15	-0.52	1.15	4.32	-0.23
	CO547	Connected member	14.77	-1.28	2.51	-3.18	-1.84
	CO547	Connected member	8.07	-0.34	-0.14	1.06	0.84
52	CO547	Connected member	5.44	-0.96	0.4	-0.18	-1.28
	CO547	Connected member	29.2	-0.51	0.24	0.26	0.06
	CO548	Main member	37.94	-0.53	1.15	4.34	-0.19
52	CO548	Connected member	14.71	-1.28	2.52	-3.19	-1.82
	CO548	Connected member	7.74	-0.35	-0.14	1.07	0.81
	CO548	Connected member	5.59	-0.95	0.4	-0.18	-1.26
52	CO548	Connected member	30.07	-0.51	0.25	0.25	0.09
	CO549	Main member	100.44	-0.49	1.34	5.22	-0.17
	CO549	Connected member	20.98	-1.28	2.48	-3.03	-1.83
52	CO549	Connected member	0.22	-0.34	-0.75	2.2	0.79
	CO549	Connected member	19.69	-0.97	0.59	-0.44	-1.29
	CO549	Connected member	83.69	-0.46	0.17	0.43	0.16
52	CO550	Main member	95.22	-0.42	3.06	9.16	0.03
	CO550	Connected member	28.38	-0.88	4.3	-5.62	-0.99
	CO550	Connected member	11.06	-0.41	-1	2.87	0.31
52	CO550	Connected member	15.22	-0.48	0.75	-0.32	-0.59
	CO550	Connected member	77.34	-0.41	-0.04	0.99	0.11
	CO551	Main member	53.88	-0.03	-2.81	-4.48	0.17
52	CO551	Connected member	24.86	0.17	-1.76	2.98	0.56
	CO551	Connected member	15.75	-0.15	0.48	-0.37	-0.44
	CO551	Connected member	12.9	0.33	-0.13	-0.23	0.45
52	CO551	Connected member	30.3	-0.03	0.69	-0.9	0.04
	CO552	Main member	49.85	-0.03	-2.76	-4.22	0.17
	CO552	Connected member	48.65	0.18	-1.72	2.93	0.57
52	CO552	Connected member	39.07	-0.15	0.58	-0.33	-0.44
	CO552	Connected member	0.9	0.34	-0.26	-0.05	0.47
	CO552	Connected member	21.49	-0.04	0.75	-0.91	0.02
52	CO553	Main member	-7.19	-0.03	-2.98	-5.37	0.18
	CO553	Connected member	29.78	0.17	-1.69	2.79	0.58
	CO553	Connected member	33.74	-0.16	1.16	-1.53	-0.44
	CO553	Connected member	-5.65	0.34	-0.37	0.08	0.47



::LAV/team::

Page: 265/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO553	Connected member	-24.85	-0.04	0.79	-1.13	0.03
	CO554	Main member	58.16	-0.03	-2.75	-4.19	0.18
	CO554	Connected member	40.14	0.17	-1.74	2.96	0.55
52	CO554	Connected member	29.55	-0.15	0.47	-0.21	-0.43
	CO554	Connected member	7.35	0.32	-0.2	-0.13	0.44
	CO554	Connected member	30.27	-0.03	0.72	-0.88	0.04
52	CO555	Main member	-56.74	-0.62	0.95	3.12	-0.2
	CO555	Connected member	2.05	-1.29	2.62	-3.5	-1.83
	CO555	Connected member	15.02	-0.37	0.75	-0.54	0.84
52	CO555	Connected member	-15.64	-0.96	0.14	0.18	-1.23
	CO555	Connected member	-48.7	-0.59	0.35	-0.01	0.03
	CO556	Main member	9.65	-0.54	1.08	3.95	-0.24
52	CO556	Connected member	12.75	-1.29	2.55	-3.29	-1.85
	CO556	Connected member	12.32	-0.34	0.14	0.55	0.85
	CO556	Connected member	-0.86	-0.96	0.3	-0.05	-1.28
52	CO556	Connected member	5.13	-0.53	0.28	0.16	0.04
	CO557	Main member	10.44	-0.55	1.09	3.96	-0.2
	CO557	Connected member	12.69	-1.29	2.55	-3.3	-1.83
52	CO557	Connected member	11.99	-0.35	0.14	0.56	0.83
	CO557	Connected member	-0.71	-0.96	0.3	-0.05	-1.25
	CO557	Connected member	6	-0.53	0.29	0.15	0.07
52	CO558	Main member	72.94	-0.51	1.26	4.84	-0.18
	CO558	Connected member	18.97	-1.29	2.52	-3.13	-1.84
	CO558	Connected member	4.45	-0.34	-0.47	1.69	0.81
52	CO558	Connected member	13.4	-0.97	0.49	-0.31	-1.29
	CO558	Connected member	59.63	-0.48	0.22	0.32	0.14
	CO559	Main member	67.72	-0.44	2.98	8.81	0.03
52	CO559	Connected member	26.38	-0.88	4.34	-5.73	-1
	CO559	Connected member	15.31	-0.41	-0.73	2.36	0.33
	CO559	Connected member	8.92	-0.49	0.65	-0.19	-0.58
52	CO559	Connected member	53.28	-0.43	0.02	0.89	0.1
	CO560	Main member	26.44	-0.03	-2.89	-4.93	0.18
	CO560	Connected member	22.89	0.17	-1.72	2.89	0.56
52	CO560	Connected member	20.02	-0.16	0.78	-0.91	-0.44
	CO560	Connected member	6.62	0.33	-0.22	-0.11	0.46
	CO560	Connected member	6.26	-0.03	0.74	-1.01	0.04
52	CO561	Main member	22.42	-0.03	-2.84	-4.67	0.18
	CO561	Connected member	46.7	0.18	-1.69	2.84	0.57
	CO561	Connected member	43.35	-0.16	0.88	-0.87	-0.44
52	CO561	Connected member	-5.38	0.34	-0.36	0.07	0.47
	CO561	Connected member	-2.55	-0.04	0.79	-1.02	0.03
	CO562	Main member	-4.44	-0.03	-2.96	-5.31	0.18
52	CO562	Connected member	31.41	0.18	-1.69	2.79	0.57
	CO562	Connected member	34.71	-0.16	1.13	-1.47	-0.44
	CO562	Connected member	-5.63	0.34	-0.37	0.08	0.47
52	CO562	Connected member	-22.83	-0.04	0.79	-1.12	0.03
	CO563	Main member	60.91	-0.03	-2.73	-4.12	0.18
	CO563	Connected member	41.77	0.17	-1.74	2.97	0.55
52	CO563	Connected member	30.53	-0.15	0.45	-0.15	-0.43
	CO563	Connected member	7.38	0.32	-0.2	-0.13	0.44
	CO563	Connected member	32.3	-0.03	0.72	-0.87	0.04
52	CO564	Main member	-53.99	-0.61	0.96	3.18	-0.2
	CO564	Connected member	3.69	-1.29	2.62	-3.49	-1.83
	CO564	Connected member	16	-0.37	0.72	-0.49	0.84
52	CO564	Connected member	-15.61	-0.96	0.14	0.18	-1.23
	CO564	Connected member	-46.67	-0.59	0.35	0	0.03
	CO565	Main member	12.4	-0.54	1.09	4.01	-0.24
52	CO565	Connected member	14.39	-1.29	2.55	-3.29	-1.85
	CO565	Connected member	13.29	-0.34	0.12	0.61	0.85
	CO565	Connected member	-0.84	-0.96	0.31	-0.05	-1.28
52	CO565	Connected member	7.16	-0.53	0.28	0.17	0.04
	CO566	Main member	13.2	-0.55	1.1	4.02	-0.2
	CO566	Connected member	14.32	-1.29	2.56	-3.3	-1.83
52	CO566	Connected member	12.96	-0.35	0.11	0.62	0.83
	CO566	Connected member	-0.69	-0.96	0.31	-0.05	-1.26
	CO566	Connected member	8.03	-0.53	0.29	0.16	0.07
52	CO567	Main member	75.69	-0.5	1.27	4.9	-0.18
	CO567	Connected member	20.6	-1.29	2.52	-3.13	-1.84
	CO567	Connected member	5.43	-0.34	-0.5	1.75	0.81
52	CO567	Connected member	13.42	-0.97	0.49	-0.31	-1.29
	CO567	Connected member	61.65	-0.48	0.22	0.33	0.14
	CO568	Main member	70.47	-0.44	3	8.87	0.02
52	CO568	Connected member	28	-0.88	4.34	-5.73	-1
	CO568	Connected member	16.28	-0.41	-0.75	2.42	0.33
	CO568	Connected member	8.94	-0.49	0.65	-0.19	-0.59
52	CO568	Connected member	55.3	-0.43	0.01	0.9	0.1
	CO569	Main member	29.19	-0.03	-2.88	-4.86	0.18
	CO569	Connected member	24.52	0.17	-1.72	2.9	0.56
52	CO569	Connected member	20.99	-0.16	0.75	-0.85	-0.44
	CO569	Connected member	6.64	0.33	-0.22	-0.11	0.46
	CO569	Connected member	8.28	-0.03	0.74	-1	0.04
52	CO570	Main member	25.17	-0.03	-2.83	-4.61	0.18
	CO570	Connected member	48.33	0.18	-1.69	2.85	0.57
	CO570	Connected member	44.32	-0.16	0.85	-0.81	-0.44
52	CO570	Connected member	-5.36	0.34	-0.36	0.07	0.47
	CO570	Connected member	-0.52	-0.04	0.79	-1.01	0.02
	CO571	Main member	-13.26	-0.03	-2.99	-5.47	0.19
52	CO571	Connected member	29.22	0.17	-1.68	2.77	0.58
	CO571	Connected member	34.51	-0.16	1.22	-1.64	-0.45
	CO571	Connected member	-7.05	0.34	-0.39	0.1	0.48
52	CO571	Connected member	-30.06	-0.04	0.8	-1.16	0.03
	CO572	Main member	52.1	-0.03	-2.77	-4.29	0.18
	CO572	Connected member	39.59	0.17	-1.73	2.94	0.55
	CO572	Connected member	30.33	-0.15	0.54	-0.33	-0.43



::LAV/team::

Page: 266/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO572	Connected member	5.96	0.32	-0.22	-0.11	0.45
	CO572	Connected member	25.07	-0.03	0.73	-0.91	0.04
52	CO573	Main member	-62.82	-0.62	0.94	3.05	-0.2
	CO573	Connected member	1.48	-1.29	2.62	-3.52	-1.83
52	CO573	Connected member	15.79	-0.37	0.81	-0.65	0.85
	CO573	Connected member	-17.03	-0.96	0.12	0.21	-1.23
52	CO573	Connected member	-53.91	-0.59	0.36	-0.03	0.03
	CO574	Main member	3.57	-0.55	1.07	3.86	-0.24
52	CO574	Connected member	12.19	-1.29	2.55	-3.31	-1.85
	CO574	Connected member	13.09	-0.34	0.2	0.44	0.86
52	CO574	Connected member	-2.26	-0.96	0.28	-0.02	-1.28
	CO574	Connected member	-0.08	-0.54	0.29	0.14	0.04
52	CO575	Main member	4.36	-0.56	1.07	3.88	-0.2
	CO575	Connected member	12.12	-1.29	2.56	-3.32	-1.83
52	CO575	Connected member	12.75	-0.35	0.2	0.45	0.83
	CO575	Connected member	-2.11	-0.96	0.28	-0.02	-1.25
52	CO575	Connected member	0.79	-0.54	0.3	0.13	0.07
	CO576	Main member	66.86	-0.51	1.24	4.75	-0.18
52	CO576	Connected member	18.41	-1.29	2.53	-3.16	-1.84
	CO576	Connected member	5.22	-0.34	-0.41	1.58	0.81
52	CO576	Connected member	12	-0.97	0.47	-0.28	-1.29
	CO576	Connected member	54.42	-0.48	0.23	0.3	0.14
52	CO577	Main member	61.64	-0.44	2.97	8.73	0.03
	CO577	Connected member	25.81	-0.88	4.35	-5.76	-1
52	CO577	Connected member	16.07	-0.41	-0.67	2.26	0.33
	CO577	Connected member	7.52	-0.49	0.63	-0.16	-0.58
52	CO577	Connected member	48.07	-0.43	0.03	0.87	0.1
	CO578	Main member	20.37	-0.03	-2.91	-5.03	0.18
52	CO578	Connected member	22.33	0.17	-1.72	2.87	0.56
	CO578	Connected member	20.79	-0.16	0.84	-1.02	-0.44
52	CO578	Connected member	5.23	0.33	-0.24	-0.09	0.46
	CO578	Connected member	1.05	-0.03	0.75	-1.04	0.04
52	CO579	Main member	16.36	-0.03	-2.86	-4.77	0.18
	CO579	Connected member	46.15	0.18	-1.68	2.82	0.57
52	CO579	Connected member	44.12	-0.16	0.94	-0.99	-0.44
	CO579	Connected member	-6.77	0.34	-0.38	0.09	0.47
52	CO579	Connected member	-7.75	-0.04	0.8	-1.05	0.03
	CO580	Main member	-10.51	-0.03	-2.98	-5.4	0.19
52	CO580	Connected member	30.86	0.17	-1.68	2.77	0.57
	CO580	Connected member	35.48	-0.16	1.2	-1.58	-0.44
52	CO580	Connected member	-7.02	0.34	-0.39	0.1	0.48
	CO580	Connected member	-28.03	-0.04	0.8	-1.15	0.03
52	CO581	Main member	54.85	-0.03	-2.75	-4.22	0.18
	CO581	Connected member	41.22	0.17	-1.73	2.95	0.55
52	CO581	Connected member	31.3	-0.15	0.51	-0.27	-0.43
	CO581	Connected member	5.98	0.32	-0.22	-0.11	0.45
52	CO581	Connected member	27.09	-0.03	0.73	-0.89	0.04
	CO582	Main member	-60.07	-0.62	0.95	3.1	-0.2
52	CO582	Connected member	3.12	-1.29	2.63	-3.51	-1.83
	CO582	Connected member	16.77	-0.37	0.78	-0.6	0.85
52	CO582	Connected member	-17.01	-0.96	0.12	0.21	-1.23
	CO582	Connected member	-51.89	-0.59	0.36	-0.02	0.03
52	CO583	Main member	6.32	-0.55	1.08	3.93	-0.24
	CO583	Connected member	13.82	-1.29	2.56	-3.31	-1.85
52	CO583	Connected member	14.06	-0.34	0.18	0.5	0.86
	CO583	Connected member	-2.23	-0.96	0.29	-0.03	-1.28
52	CO583	Connected member	1.95	-0.54	0.29	0.15	0.04
	CO584	Main member	7.12	-0.56	1.08	3.94	-0.2
52	CO584	Connected member	13.76	-1.29	2.56	-3.32	-1.83
	CO584	Connected member	13.73	-0.35	0.17	0.51	0.83
52	CO584	Connected member	-2.08	-0.96	0.28	-0.02	-1.26
	CO584	Connected member	2.82	-0.54	0.3	0.14	0.07
52	CO585	Main member	69.61	-0.51	1.25	4.81	-0.18
	CO585	Connected member	20.04	-1.29	2.53	-3.15	-1.84
52	CO585	Connected member	6.19	-0.34	-0.44	1.64	0.81
	CO585	Connected member	12.02	-0.98	0.47	-0.28	-1.29
52	CO585	Connected member	56.45	-0.48	0.23	0.31	0.14
	CO586	Main member	64.39	-0.44	2.98	8.79	0.02
52	CO586	Connected member	27.44	-0.88	4.35	-5.75	-1
	CO586	Connected member	17.05	-0.41	-0.69	2.31	0.33
52	CO586	Connected member	7.55	-0.49	0.63	-0.16	-0.58
	CO586	Connected member	50.09	-0.43	0.03	0.88	0.1
52	CO587	Main member	23.12	-0.03	-2.9	-4.96	0.18
	CO587	Connected member	23.97	0.17	-1.72	2.88	0.56
52	CO587	Connected member	21.77	-0.16	0.82	-0.96	-0.44
	CO587	Connected member	5.25	0.33	-0.24	-0.09	0.46
52	CO587	Connected member	3.08	-0.03	0.75	-1.03	0.04
	CO588	Main member	19.11	-0.03	-2.85	-4.7	0.18
52	CO588	Connected member	47.78	0.18	-1.68	2.83	0.57
	CO588	Connected member	45.1	-0.16	0.92	-0.93	-0.44
52	CO588	Connected member	-6.75	0.34	-0.38	0.09	0.47
	CO588	Connected member	-5.73	-0.04	0.8	-1.04	0.03
52	CO589	Main member	9.02	-0.03	-2.93	-5.11	0.18
	CO589	Connected member	30.72	0.18	-1.71	2.84	0.58
52	CO589	Connected member	30.89	-0.16	0.98	-1.2	-0.44
	CO589	Connected member	-1.95	0.34	-0.31	0	0.47
52	CO589	Connected member	-10.45	-0.04	0.77	-1.07	0.03
	CO590	Main member	74.37	-0.03	-2.69	-3.92	0.17
52	CO590	Connected member	41.07	0.17	-1.76	3.01	0.55
	CO590	Connected member	26.71	-0.15	0.3	0.11	-0.43
52	CO590	Connected member	11.05	0.32	-0.15	-0.21	0.44
	CO590	Connected member	44.68	-0.03	0.7	-0.81	0.04
52	CO591	Main member	-40.49	-0.6	0.98	3.34	-0.2
	CO591	Connected member	3.03	-1.29	2.59	-3.43	-1.82



::LAV/team::

Page: 267/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO591	Connected member	12.19	-0.37	0.58	-0.24	0.83
	CO591	Connected member	-11.92	-0.95	0.2	0.1	-1.23
	CO591	Connected member	-34.28	-0.57	0.33	0.05	0.05
	CO592	Main member	25.89	-0.53	1.12	4.17	-0.23
52	CO592	Connected member	13.72	-1.29	2.52	-3.23	-1.84
	CO592	Connected member	9.49	-0.34	-0.03	0.85	0.84
	CO592	Connected member	2.85	-0.96	0.36	-0.13	-1.28
	CO592	Connected member	19.55	-0.52	0.26	0.22	0.06
52	CO593	Main member	26.69	-0.54	1.12	4.18	-0.2
	CO593	Connected member	13.66	-1.28	2.53	-3.24	-1.82
	CO593	Connected member	9.16	-0.35	-0.03	0.87	0.82
	CO593	Connected member	3	-0.95	0.36	-0.13	-1.26
52	CO593	Connected member	20.42	-0.52	0.27	0.21	0.08
	CO594	Main member	89.18	-0.5	1.31	5.06	-0.17
	CO594	Connected member	19.93	-1.28	2.5	-3.07	-1.83
	CO594	Connected member	1.63	-0.34	-0.64	2	0.8
52	CO594	Connected member	17.11	-0.97	0.55	-0.39	-1.29
	CO594	Connected member	74.05	-0.47	0.19	0.38	0.15
	CO595	Main member	83.96	-0.43	3.03	9.01	0.03
	CO595	Connected member	27.34	-0.88	4.32	-5.67	-0.99
52	CO595	Connected member	12.48	-0.41	-0.89	2.66	0.32
	CO595	Connected member	12.63	-0.48	0.71	-0.27	-0.59
	CO595	Connected member	67.69	-0.42	-0.01	0.95	0.11
	CO596	Main member	42.65	-0.03	-2.84	-4.66	0.18
52	CO596	Connected member	23.83	0.17	-1.74	2.95	0.56
	CO596	Connected member	17.18	-0.15	0.6	-0.58	-0.44
	CO596	Connected member	10.32	0.33	-0.17	-0.19	0.45
	CO596	Connected member	20.67	-0.03	0.71	-0.94	0.04
52	CO597	Main member	38.63	-0.03	-2.79	-4.4	0.17
	CO597	Connected member	47.63	0.18	-1.71	2.89	0.57
	CO597	Connected member	40.5	-0.15	0.7	-0.55	-0.44
	CO597	Connected member	-1.68	0.34	-0.3	-0.01	0.47
52	CO597	Connected member	11.85	-0.04	0.77	-0.95	0.02
	CO598	Main member	11.77	-0.03	-2.92	-5.04	0.18
	CO598	Connected member	32.35	0.18	-1.71	2.85	0.57
	CO598	Connected member	31.86	-0.16	0.96	-1.14	-0.44
52	CO598	Connected member	-1.93	0.34	-0.31	0	0.47
	CO598	Connected member	-8.42	-0.04	0.77	-1.06	0.03
	CO599	Main member	77.12	-0.03	-2.68	-3.85	0.17
	CO599	Connected member	42.69	0.17	-1.76	3.02	0.55
52	CO599	Connected member	27.68	-0.15	0.27	0.17	-0.43
	CO599	Connected member	11.07	0.32	-0.14	-0.21	0.44
	CO599	Connected member	46.7	-0.03	0.7	-0.8	0.04
	CO600	Main member	-37.74	-0.6	0.99	3.4	-0.2
52	CO600	Connected member	4.66	-1.29	2.6	-3.42	-1.82
	CO600	Connected member	13.17	-0.37	0.55	-0.18	0.83
	CO600	Connected member	-11.9	-0.95	0.2	0.1	-1.23
	CO600	Connected member	-32.25	-0.57	0.33	0.06	0.05
52	CO601	Main member	28.64	-0.53	1.13	4.23	-0.23
	CO601	Connected member	15.35	-1.29	2.52	-3.22	-1.84
	CO601	Connected member	10.47	-0.34	-0.05	0.91	0.84
	CO601	Connected member	2.88	-0.96	0.36	-0.13	-1.28
52	CO601	Connected member	21.58	-0.52	0.26	0.23	0.06
	CO602	Main member	29.44	-0.54	1.14	4.25	-0.2
	CO602	Connected member	15.29	-1.28	2.53	-3.23	-1.82
	CO602	Connected member	10.13	-0.35	-0.06	0.93	0.82
52	CO602	Connected member	3.02	-0.96	0.36	-0.13	-1.26
	CO602	Connected member	22.45	-0.52	0.26	0.22	0.08
	CO603	Main member	91.93	-0.49	1.32	5.13	-0.17
	CO603	Connected member	21.56	-1.29	2.5	-3.07	-1.83
52	CO603	Connected member	2.6	-0.34	-0.67	2.06	0.8
	CO603	Connected member	17.13	-0.97	0.55	-0.39	-1.29
	CO603	Connected member	76.07	-0.46	0.19	0.39	0.15
	CO604	Main member	86.71	-0.43	3.04	9.08	0.02
52	CO604	Connected member	28.96	-0.88	4.32	-5.66	-0.99
	CO604	Connected member	13.45	-0.41	-0.92	2.72	0.32
	CO604	Connected member	12.66	-0.48	0.71	-0.27	-0.59
	CO604	Connected member	69.72	-0.42	-0.02	0.96	0.11
52	CO605	Main member	45.4	-0.03	-2.83	-4.6	0.18
	CO605	Connected member	25.46	0.17	-1.74	2.95	0.56
	CO605	Connected member	18.15	-0.15	0.58	-0.52	-0.44
	CO605	Connected member	10.34	0.33	-0.16	-0.19	0.45
52	CO605	Connected member	22.69	-0.03	0.71	-0.93	0.04
	CO606	Main member	41.37	-0.03	-2.78	-4.34	0.17
	CO606	Connected member	49.26	0.18	-1.71	2.9	0.57
	CO606	Connected member	41.47	-0.15	0.67	-0.49	-0.44
52	CO606	Connected member	-1.66	0.34	-0.3	-0.01	0.47
	CO606	Connected member	13.88	-0.04	0.77	-0.94	0.02
	CO607	Main member	15.09	-0.03	-2.91	-5.01	0.18
	CO607	Connected member	31.27	0.18	-1.71	2.86	0.58
52	CO607	Connected member	30.12	-0.16	0.92	-1.09	-0.44
	CO607	Connected member	-0.56	0.34	-0.29	-0.02	0.47
	CO607	Connected member	-5.24	-0.04	0.76	-1.04	0.03
	CO608	Main member	80.43	-0.03	-2.67	-3.82	0.17
52	CO608	Connected member	41.62	0.17	-1.76	3.03	0.55
	CO608	Connected member	25.94	-0.15	0.23	0.23	-0.43
	CO608	Connected member	12.45	0.32	-0.13	-0.23	0.44
	CO608	Connected member	49.88	-0.03	0.69	-0.78	0.03
52	CO609	Main member	-34.41	-0.6	0.99	3.42	-0.19
	CO609	Connected member	3.6	-1.29	2.59	-3.41	-1.82
	CO609	Connected member	11.42	-0.37	0.52	-0.13	0.83
	CO609	Connected member	-10.53	-0.95	0.22	0.07	-1.23
52	CO609	Connected member	-29.07	-0.57	0.32	0.07	0.05
	CO610	Main member	31.97	-0.53	1.13	4.25	-0.23



::LAV/team::

Page: 268/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO610	Connected member	14.29	-1.29	2.52	-3.2	-1.84
	CO610	Connected member	8.73	-0.34	-0.09	0.96	0.84
	CO610	Connected member	4.25	-0.96	0.38	-0.16	-1.28
52	CO610	Connected member	24.76	-0.52	0.25	0.24	0.06
	CO611	Main member	32.77	-0.54	1.14	4.27	-0.2
	CO611	Connected member	14.23	-1.28	2.52	-3.21	-1.82
52	CO611	Connected member	8.39	-0.35	-0.09	0.98	0.82
	CO611	Connected member	4.4	-0.95	0.38	-0.16	-1.26
	CO611	Connected member	25.63	-0.52	0.26	0.23	0.09
52	CO612	Main member	95.26	-0.49	1.32	5.15	-0.17
	CO612	Connected member	20.5	-1.28	2.49	-3.05	-1.83
	CO612	Connected member	0.87	-0.34	-0.7	2.11	0.79
52	CO612	Connected member	18.5	-0.97	0.57	-0.41	-1.29
	CO612	Connected member	79.25	-0.46	0.18	0.41	0.16
	CO613	Main member	90.04	-0.43	3.04	9.09	0.03
52	CO613	Connected member	27.9	-0.88	4.31	-5.64	-0.99
	CO613	Connected member	11.71	-0.41	-0.95	2.77	0.31
	CO613	Connected member	14.03	-0.48	0.73	-0.3	-0.59
52	CO613	Connected member	72.9	-0.41	-0.03	0.97	0.11
	CO614	Main member	48.72	-0.03	-2.82	-4.56	0.17
	CO614	Connected member	24.38	0.17	-1.75	2.97	0.56
52	CO614	Connected member	16.41	-0.15	0.54	-0.47	-0.44
	CO614	Connected member	11.71	0.33	-0.15	-0.21	0.45
	CO614	Connected member	25.87	-0.03	0.7	-0.92	0.04
52	CO615	Main member	44.69	-0.03	-2.77	-4.3	0.17
	CO615	Connected member	48.18	0.18	-1.72	2.91	0.57
	CO615	Connected member	39.73	-0.15	0.64	-0.43	-0.44
52	CO615	Connected member	-0.29	0.34	-0.28	-0.03	0.47
	CO615	Connected member	17.05	-0.04	0.76	-0.93	0.02
	CO616	Main member	17.84	-0.03	-2.9	-4.94	0.18
52	CO616	Connected member	32.91	0.18	-1.71	2.86	0.57
	CO616	Connected member	31.09	-0.16	0.89	-1.03	-0.44
	CO616	Connected member	-0.54	0.34	-0.29	-0.02	0.47
52	CO616	Connected member	-3.22	-0.04	0.76	-1.03	0.03
	CO617	Main member	83.18	-0.03	-2.66	-3.75	0.17
52	CO617	Connected member	43.25	0.17	-1.76	3.04	0.55
	CO617	Connected member	26.91	-0.15	0.21	0.29	-0.43
	CO617	Connected member	12.47	0.32	-0.13	-0.23	0.44
52	CO617	Connected member	51.9	-0.03	0.69	-0.77	0.03
	CO618	Main member	-31.66	-0.6	1	3.48	-0.2
52	CO618	Connected member	5.23	-1.29	2.59	-3.4	-1.82
	CO618	Connected member	12.4	-0.37	0.49	-0.07	0.83
	CO618	Connected member	-10.5	-0.95	0.22	0.07	-1.23
52	CO618	Connected member	-27.04	-0.57	0.32	0.08	0.05
	CO619	Main member	34.72	-0.52	1.15	4.31	-0.23
52	CO619	Connected member	15.92	-1.29	2.52	-3.2	-1.84
	CO619	Connected member	9.7	-0.34	-0.11	1.02	0.84
	CO619	Connected member	4.27	-0.96	0.39	-0.16	-1.28
52	CO619	Connected member	26.79	-0.52	0.25	0.25	0.06
	CO620	Main member	35.52	-0.54	1.15	4.33	-0.2
52	CO620	Connected member	15.86	-1.28	2.53	-3.21	-1.82
	CO620	Connected member	9.37	-0.35	-0.12	1.04	0.82
	CO620	Connected member	4.42	-0.95	0.38	-0.16	-1.26
52	CO620	Connected member	27.66	-0.52	0.25	0.24	0.09
	CO621	Main member	98.01	-0.49	1.34	5.21	-0.17
52	CO621	Connected member	22.13	-1.28	2.49	-3.04	-1.83
	CO621	Connected member	1.84	-0.34	-0.73	2.17	0.79
	CO621	Connected member	18.53	-0.97	0.57	-0.42	-1.29
52	CO621	Connected member	81.28	-0.46	0.18	0.42	0.16
	CO622	Main member	92.79	-0.42	3.06	9.15	0.02
52	CO622	Connected member	29.53	-0.88	4.31	-5.64	-0.99
	CO622	Connected member	12.69	-0.41	-0.98	2.83	0.31
	CO622	Connected member	14.06	-0.48	0.73	-0.3	-0.59
52	CO622	Connected member	74.93	-0.41	-0.03	0.98	0.11
	CO623	Main member	51.46	-0.03	-2.81	-4.5	0.17
52	CO623	Connected member	26.01	0.17	-1.75	2.97	0.56
	CO623	Connected member	17.38	-0.15	0.51	-0.41	-0.44
	CO623	Connected member	11.74	0.33	-0.15	-0.21	0.45
52	CO623	Connected member	27.89	-0.03	0.7	-0.91	0.04
	CO624	Main member	47.44	-0.03	-2.76	-4.24	0.17
52	CO624	Connected member	49.81	0.18	-1.72	2.92	0.57
	CO624	Connected member	40.7	-0.15	0.61	-0.37	-0.44
	CO624	Connected member	-0.27	0.34	-0.28	-0.03	0.47
52	CO624	Connected member	19.08	-0.04	0.76	-0.92	0.02
	CO625	Main member	-22.15	0	-1.18	-1.63	0
52	CO625	Connected member	-1.89	0	0.29	-0.11	0.02
	CO625	Connected member	2.4	-0.01	0.84	-1.02	-0.02
	CO625	Connected member	-2.76	0.01	0.01	-0.07	0.01
52	CO625	Connected member	-20.12	0	0.56	-0.65	0.01
	CO626	Main member	-38.69	0	-1.22	-1.88	0.01
52	CO626	Connected member	-3.03	0	0.31	-0.16	0.02
	CO626	Connected member	5.06	-0.01	1.01	-1.34	-0.02
	CO626	Connected member	-6.54	0.01	-0.05	0.01	0.01
52	CO626	Connected member	-34.67	0	0.58	-0.71	0.01
	CO627	Main member	-43.19	0	-1.23	-1.94	0.01
52	CO627	Connected member	-3.45	0	0.31	-0.18	0.02
	CO627	Connected member	5.63	-0.01	1.06	-1.42	-0.02
	CO627	Connected member	-7.57	0.01	-0.07	0.03	0.01
52	CO627	Connected member	-38.53	0	0.59	-0.73	0.01
	CO628	Main member	-26.65	0	-1.19	-1.7	0.01
	CO628	Connected member	-2.31	0	0.29	-0.12	0.02
52	CO628	Connected member	2.96	-0.01	0.89	-1.1	-0.02
	CO628	Connected member	-3.79	0.01	-0.01	-0.05	0.01
	CO628	Connected member	-23.98	0	0.56	-0.67	0.01



::LAVteam::

Page: 269/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO629	Main member	-52.18	0	-1.25	-2.07	0.01
	CO629	Connected member	-4.71	0	0.32	-0.21	0.02
	CO629	Connected member	6.18	-0.01	1.15	-1.58	-0.02
	CO629	Connected member	-9.65	0.01	-0.09	0.06	0.01
	CO629	Connected member	-45.86	0	0.6	-0.76	0.01
52	CO630	Main member	-68.72	0	-1.28	-2.31	0.02
	CO630	Connected member	-5.85	0	0.34	-0.27	0.02
	CO630	Connected member	8.84	-0.01	1.32	-1.89	-0.02
	CO630	Connected member	-13.43	0.01	-0.15	0.14	0.01
	CO630	Connected member	-60.41	0	0.62	-0.82	0.02
52	CO631	Main member	-73.23	0	-1.29	-2.37	0.02
	CO631	Connected member	-6.28	0	0.35	-0.28	0.02
	CO631	Connected member	9.41	-0.01	1.37	-1.98	-0.02
	CO631	Connected member	-14.47	0.01	-0.17	0.16	0.01
	CO631	Connected member	-64.27	0	0.63	-0.84	0.02
52	CO632	Main member	-56.68	0	-1.26	-2.14	0.01
	CO632	Connected member	-5.13	0	0.33	-0.22	0.02
	CO632	Connected member	6.75	-0.01	1.19	-1.66	-0.02
	CO632	Connected member	-10.69	0.01	-0.11	0.08	0.01
	CO632	Connected member	-49.72	0	0.6	-0.78	0.01
52	CO633	Main member	-76.23	0	-1.3	-2.42	0.02
	CO633	Connected member	-6.56	0	0.35	-0.29	0.02
	CO633	Connected member	9.79	-0.01	1.4	-2.03	-0.02
	CO633	Connected member	-15.16	0.01	-0.18	0.17	0.01
	CO633	Connected member	-66.85	0	0.63	-0.85	0.02
52	CO634	Main member	-74.39	0	-1.29	-2.38	0.02
	CO634	Connected member	-5.47	0	0.35	-0.29	0.02
	CO634	Connected member	10.44	-0.01	1.38	-1.99	-0.02
	CO634	Connected member	-15.14	0.01	-0.18	0.17	0.01
	CO634	Connected member	-65.49	0	0.63	-0.84	0.02
52	CO635	Main member	-80.74	0	-1.31	-2.48	0.02
	CO635	Connected member	-6.99	0	0.36	-0.31	0.02
	CO635	Connected member	10.36	-0.01	1.44	-2.12	-0.02
	CO635	Connected member	-16.19	0.01	-0.19	0.19	0.01
	CO635	Connected member	-70.71	0	0.64	-0.87	0.02
52	CO636	Main member	-78.9	0	-1.3	-2.44	0.02
	CO636	Connected member	-5.89	0	0.36	-0.31	0.02
	CO636	Connected member	11.01	-0.01	1.43	-2.08	-0.02
	CO636	Connected member	-16.18	0.01	-0.19	0.19	0.01
	CO636	Connected member	-69.35	0	0.64	-0.86	0.02
52	CO637	Main member	-64.19	0	-1.27	-2.24	0.01
	CO637	Connected member	-5.84	0	0.33	-0.25	0.02
	CO637	Connected member	7.69	-0.01	1.27	-1.8	-0.02
	CO637	Connected member	-12.41	0.01	-0.13	0.12	0.01
	CO637	Connected member	-56.16	0	0.62	-0.81	0.01
52	CO638	Main member	-62.35	0	-1.27	-2.2	0.01
	CO638	Connected member	-4.74	0	0.34	-0.25	0.02
	CO638	Connected member	8.34	-0.01	1.25	-1.76	-0.02
	CO638	Connected member	-12.39	0.01	-0.13	0.12	0.01
	CO638	Connected member	-54.8	0	0.62	-0.8	0.01
52	CO639	Main member	-56.76	-0.01	-2	-3.74	0.09
	CO639	Connected member	7.19	0.07	-0.45	0.92	0.24
	CO639	Connected member	20.34	-0.07	1.39	-1.99	-0.19
	CO639	Connected member	-13.23	0.14	-0.28	0.16	0.2
	CO639	Connected member	-56.99	-0.02	0.71	-1	0.02
52	CO640	Main member	-30.57	-0.01	-1.92	-3.3	0.08
	CO640	Connected member	11.38	0.07	-0.47	0.99	0.23
	CO640	Connected member	18.68	-0.07	1.12	-1.48	-0.19
	CO640	Connected member	-8.02	0.13	-0.21	0.07	0.19
	CO640	Connected member	-34.91	-0.01	0.68	-0.91	0.03
52	CO641	Main member	-76.63	-0.26	-0.41	-0.3	-0.07
	CO641	Connected member	-3.95	-0.52	1.27	-1.6	-0.72
	CO641	Connected member	12.84	-0.16	1.22	-1.58	0.32
	CO641	Connected member	-17.23	-0.38	-0.08	0.22	-0.48
	CO641	Connected member	-66.56	-0.24	0.53	-0.54	0.02
52	CO642	Main member	-50.07	-0.24	-0.37	0.04	-0.08
	CO642	Connected member	0.34	-0.52	1.24	-1.53	-0.73
	CO642	Connected member	11.75	-0.15	0.97	-1.14	0.33
	CO642	Connected member	-11.32	-0.38	-0.01	0.12	-0.5
	CO642	Connected member	-45.03	-0.23	0.51	-0.47	0.02
52	CO643	Main member	-49.75	-0.25	-0.36	0.05	-0.07
	CO643	Connected member	0.32	-0.52	1.24	-1.53	-0.73
	CO643	Connected member	11.62	-0.15	0.97	-1.13	0.32
	CO643	Connected member	-11.27	-0.38	-0.01	0.12	-0.49
	CO643	Connected member	-44.67	-0.23	0.51	-0.48	0.03
52	CO644	Main member	-24.74	-0.24	-0.31	0.4	-0.06
	CO644	Connected member	2.85	-0.52	1.23	-1.47	-0.74
	CO644	Connected member	8.6	-0.15	0.72	-0.68	0.32
	CO644	Connected member	-5.62	-0.39	0.06	0.02	-0.51
	CO644	Connected member	-23.21	-0.22	0.49	-0.41	0.04
52	CO645	Main member	-26.84	-0.2	0.39	2.03	0.02
	CO645	Connected member	5.81	-0.36	1.96	-2.52	-0.4
	CO645	Connected member	12.95	-0.18	0.62	-0.39	0.12
	CO645	Connected member	-7.42	-0.19	0.12	0.08	-0.22
	CO645	Connected member	-25.76	-0.2	0.41	-0.17	0.03
52	CO646	Main member	-43.29	-0.01	-1.97	-3.58	0.09
	CO646	Connected member	4.45	0.07	-0.47	0.96	0.24
	CO646	Connected member	14.85	-0.07	1.24	-1.75	-0.19
	CO646	Connected member	-8.32	0.14	-0.22	0.08	0.19
	CO646	Connected member	-44.54	-0.01	0.69	-0.95	0.03
52	CO647	Main member	-44.89	-0.01	-1.95	-3.47	0.08
	CO647	Connected member	13.98	0.07	-0.45	0.94	0.24
	CO647	Connected member	24.2	-0.07	1.28	-1.73	-0.19
	CO647	Connected member	-13.12	0.14	-0.27	0.16	0.19



::LAV/team::

Page: 270/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO647	Connected member	-48.05	-0.02	0.71	-0.96	0.02
	CO648	Main member	-54.92	-0.01	-1.99	-3.7	0.09
	CO648	Connected member	8.28	0.07	-0.45	0.92	0.24
	CO648	Connected member	20.99	-0.07	1.37	-1.95	-0.19
52	CO648	Connected member	-13.21	0.14	-0.28	0.16	0.2
	CO648	Connected member	-55.64	-0.02	0.71	-0.99	0.02
	CO649	Main member	-28.74	-0.01	-1.92	-3.26	0.08
	CO649	Connected member	12.47	0.07	-0.47	0.99	0.23
52	CO649	Connected member	19.33	-0.07	1.1	-1.44	-0.19
	CO649	Connected member	-8	0.13	-0.21	0.07	0.19
	CO649	Connected member	-33.56	-0.01	0.69	-0.9	0.03
	CO650	Main member	-74.79	-0.26	-0.41	-0.26	-0.07
52	CO650	Connected member	-2.85	-0.52	1.27	-1.6	-0.72
	CO650	Connected member	13.49	-0.16	1.2	-1.54	0.32
	CO650	Connected member	-17.22	-0.38	-0.08	0.21	-0.48
	CO650	Connected member	-65.21	-0.24	0.53	-0.53	0.02
52	CO651	Main member	-48.23	-0.24	-0.36	0.08	-0.08
	CO651	Connected member	1.44	-0.52	1.24	-1.52	-0.74
	CO651	Connected member	12.41	-0.15	0.96	-1.1	0.33
	CO651	Connected member	-11.31	-0.38	-0.01	0.12	-0.5
52	CO651	Connected member	-43.67	-0.23	0.51	-0.47	0.02
	CO652	Main member	-47.91	-0.25	-0.36	0.09	-0.07
	CO652	Connected member	1.41	-0.52	1.24	-1.53	-0.73
	CO652	Connected member	12.27	-0.15	0.95	-1.09	0.32
52	CO652	Connected member	-11.25	-0.38	-0.01	0.12	-0.49
	CO652	Connected member	-43.32	-0.23	0.51	-0.47	0.03
	CO653	Main member	-22.91	-0.24	-0.3	0.44	-0.06
	CO653	Connected member	3.94	-0.52	1.23	-1.46	-0.74
52	CO653	Connected member	9.25	-0.15	0.71	-0.64	0.33
	CO653	Connected member	-5.61	-0.39	0.06	0.02	-0.51
	CO653	Connected member	-21.86	-0.22	0.49	-0.4	0.04
	CO654	Main member	-25	-0.2	0.4	2.07	0.02
52	CO654	Connected member	6.9	-0.36	1.96	-2.52	-0.4
	CO654	Connected member	13.6	-0.18	0.6	-0.36	0.12
	CO654	Connected member	-7.4	-0.19	0.13	0.08	-0.22
	CO654	Connected member	-24.41	-0.2	0.41	-0.17	0.03
52	CO655	Main member	-41.46	-0.01	-1.97	-3.54	0.09
	CO655	Connected member	5.54	0.07	-0.47	0.97	0.24
	CO655	Connected member	15.5	-0.07	1.22	-1.71	-0.19
	CO655	Connected member	-8.3	0.14	-0.22	0.08	0.19
52	CO655	Connected member	-43.18	-0.01	0.69	-0.95	0.03
	CO656	Main member	-43.06	-0.01	-1.94	-3.43	0.08
	CO656	Connected member	15.07	0.07	-0.45	0.94	0.24
	CO656	Connected member	24.85	-0.07	1.26	-1.69	-0.19
52	CO656	Connected member	-13.1	0.14	-0.27	0.16	0.19
	CO656	Connected member	-46.7	-0.02	0.71	-0.95	0.02
	CO657	Main member	-61.26	-0.01	-2.01	-3.81	0.09
	CO657	Connected member	6.77	0.07	-0.45	0.9	0.24
52	CO657	Connected member	20.91	-0.07	1.43	-2.08	-0.19
	CO657	Connected member	-14.26	0.14	-0.29	0.18	0.2
	CO657	Connected member	-60.85	-0.02	0.71	-1.02	0.03
	CO658	Main member	-35.07	-0.01	-1.94	-3.37	0.08
52	CO658	Connected member	10.96	0.07	-0.47	0.98	0.23
	CO658	Connected member	19.25	-0.07	1.17	-1.56	-0.19
	CO658	Connected member	-9.05	0.13	-0.22	0.09	0.19
	CO658	Connected member	-38.77	-0.01	0.69	-0.92	0.03
52	CO659	Main member	-81.14	-0.26	-0.42	-0.36	-0.07
	CO659	Connected member	-4.37	-0.52	1.27	-1.62	-0.72
	CO659	Connected member	13.41	-0.16	1.26	-1.66	0.32
	CO659	Connected member	-18.27	-0.38	-0.09	0.24	-0.48
52	CO659	Connected member	-70.42	-0.24	0.54	-0.56	0.02
	CO660	Main member	-54.58	-0.25	-0.37	-0.02	-0.08
	CO660	Connected member	-0.08	-0.52	1.24	-1.54	-0.74
	CO660	Connected member	12.32	-0.15	1.02	-1.22	0.33
52	CO660	Connected member	-12.36	-0.38	-0.03	0.14	-0.5
	CO660	Connected member	-48.89	-0.23	0.51	-0.49	0.02
	CO661	Main member	-54.26	-0.25	-0.37	-0.02	-0.07
	CO661	Connected member	-0.11	-0.52	1.25	-1.55	-0.73
52	CO661	Connected member	12.19	-0.15	1.02	-1.22	0.32
	CO661	Connected member	-12.3	-0.38	-0.03	0.14	-0.49
	CO661	Connected member	-48.54	-0.23	0.52	-0.49	0.03
	CO662	Main member	-29.25	-0.24	-0.32	0.34	-0.06
52	CO662	Connected member	2.42	-0.52	1.24	-1.48	-0.74
	CO662	Connected member	9.17	-0.15	0.77	-0.76	0.33
	CO662	Connected member	-6.66	-0.39	0.05	0.04	-0.51
	CO662	Connected member	-27.07	-0.22	0.5	-0.43	0.04
52	CO663	Main member	-31.34	-0.21	0.38	1.97	0.02
	CO663	Connected member	5.38	-0.36	1.97	-2.54	-0.4
	CO663	Connected member	13.52	-0.18	0.66	-0.48	0.12
	CO663	Connected member	-8.45	-0.19	0.11	0.1	-0.22
52	CO663	Connected member	-29.62	-0.2	0.42	-0.19	0.03
	CO664	Main member	-47.8	-0.01	-1.98	-3.65	0.09
	CO664	Connected member	4.03	0.07	-0.46	0.95	0.24
	CO664	Connected member	15.42	-0.07	1.29	-1.83	-0.19
52	CO664	Connected member	-9.35	0.14	-0.23	0.1	0.19
	CO664	Connected member	-48.39	-0.01	0.69	-0.97	0.03
	CO665	Main member	-49.39	-0.01	-1.96	-3.54	0.08
	CO665	Connected member	13.56	0.07	-0.44	0.92	0.24
52	CO665	Connected member	24.77	-0.07	1.33	-1.82	-0.19
	CO665	Connected member	-14.15	0.14	-0.29	0.18	0.2
	CO665	Connected member	-51.91	-0.02	0.72	-0.98	0.02
	CO666	Main member	-59.43	-0.01	-2	-3.77	0.09
52	CO666	Connected member	7.86	0.07	-0.44	0.9	0.24
	CO666	Connected member	21.56	-0.07	1.42	-2.04	-0.19



::LAV/team::

Page: 271/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO666	Connected member	-14.25	0.14	-0.29	0.18	0.2
	CO666	Connected member	-59.49	-0.02	0.71	-1.01	0.03
52	CO667	Main member	-33.24	-0.01	-1.93	-3.32	0.08
	CO667	Connected member	12.05	0.07	-0.47	0.98	0.23
52	CO667	Connected member	19.9	-0.07	1.15	-1.52	-0.19
	CO667	Connected member	-9.04	0.13	-0.22	0.09	0.19
52	CO667	Connected member	-37.42	-0.01	0.69	-0.92	0.03
	CO668	Main member	-79.3	-0.26	-0.41	-0.32	-0.07
52	CO668	Connected member	-3.28	-0.52	1.27	-1.62	-0.72
	CO668	Connected member	14.06	-0.16	1.25	-1.63	0.32
52	CO668	Connected member	-18.25	-0.38	-0.09	0.23	-0.48
	CO668	Connected member	-69.07	-0.24	0.54	-0.55	0.02
52	CO669	Main member	-52.74	-0.25	-0.37	0.02	-0.08
	CO669	Connected member	1.01	-0.52	1.24	-1.54	-0.74
52	CO669	Connected member	12.97	-0.15	1	-1.18	0.33
	CO669	Connected member	-12.34	-0.38	-0.03	0.14	-0.5
52	CO669	Connected member	-47.53	-0.23	0.51	-0.48	0.02
	CO670	Main member	-52.42	-0.25	-0.37	0.02	-0.07
52	CO670	Connected member	0.99	-0.52	1.25	-1.54	-0.73
	CO670	Connected member	12.84	-0.15	1	-1.18	0.32
52	CO670	Connected member	-12.28	-0.38	-0.03	0.14	-0.49
	CO670	Connected member	-47.18	-0.23	0.52	-0.49	0.03
52	CO671	Main member	-27.41	-0.24	-0.31	0.38	-0.06
	CO671	Connected member	3.51	-0.52	1.24	-1.48	-0.74
52	CO671	Connected member	9.82	-0.15	0.75	-0.72	0.33
	CO671	Connected member	-6.64	-0.39	0.05	0.04	-0.51
52	CO671	Connected member	-25.72	-0.22	0.5	-0.42	0.04
	CO672	Main member	-29.51	-0.21	0.39	2.01	0.02
52	CO672	Connected member	6.47	-0.36	1.97	-2.53	-0.4
	CO672	Connected member	14.17	-0.18	0.65	-0.44	0.12
52	CO672	Connected member	-8.44	-0.19	0.11	0.1	-0.22
	CO672	Connected member	-28.27	-0.2	0.42	-0.18	0.03
52	CO673	Main member	-45.96	-0.01	-1.98	-3.61	0.09
	CO673	Connected member	5.12	0.07	-0.46	0.95	0.24
52	CO673	Connected member	16.07	-0.07	1.27	-1.79	-0.19
	CO673	Connected member	-9.33	0.14	-0.23	0.1	0.19
52	CO673	Connected member	-47.04	-0.01	0.69	-0.97	0.03
	CO674	Main member	-47.56	-0.01	-1.95	-3.5	0.08
52	CO674	Connected member	14.65	0.07	-0.44	0.93	0.24
	CO674	Connected member	25.42	-0.07	1.31	-1.78	-0.19
52	CO674	Connected member	-14.13	0.14	-0.28	0.18	0.2
	CO674	Connected member	-50.56	-0.02	0.72	-0.97	0.02
52	CO675	Main member	-44.73	-0.01	-1.97	-3.56	0.08
	CO675	Connected member	7.9	0.07	-0.47	0.96	0.24
52	CO675	Connected member	18.24	-0.07	1.26	-1.76	-0.19
	CO675	Connected member	-10.48	0.14	-0.23	0.11	0.2
52	CO675	Connected member	-46.31	-0.02	0.69	-0.95	0.02
	CO676	Main member	-18.55	-0.01	-1.89	-3.11	0.08
52	CO676	Connected member	12.09	0.07	-0.49	1.03	0.23
	CO676	Connected member	16.58	-0.07	0.99	-1.24	-0.18
52	CO676	Connected member	-5.27	0.13	-0.17	0.02	0.19
	CO676	Connected member	-24.23	-0.01	0.67	-0.86	0.03
52	CO677	Main member	-64.59	-0.26	-0.39	-0.14	-0.07
	CO677	Connected member	-3.22	-0.52	1.25	-1.56	-0.72
52	CO677	Connected member	10.74	-0.16	1.09	-1.35	0.32
	CO677	Connected member	-14.49	-0.38	-0.04	0.16	-0.48
52	CO677	Connected member	-55.87	-0.24	0.52	-0.5	0.03
	CO678	Main member	-38.03	-0.24	-0.34	0.21	-0.08
52	CO678	Connected member	1.07	-0.52	1.22	-1.48	-0.73
	CO678	Connected member	9.66	-0.15	0.85	-0.91	0.33
52	CO678	Connected member	-8.58	-0.38	0.03	0.07	-0.5
	CO678	Connected member	-34.34	-0.23	0.49	-0.43	0.02
52	CO679	Main member	-37.71	-0.24	-0.34	0.21	-0.07
	CO679	Connected member	1.04	-0.52	1.23	-1.48	-0.72
52	CO679	Connected member	9.52	-0.15	0.84	-0.9	0.32
	CO679	Connected member	-8.52	-0.38	0.03	0.07	-0.49
52	CO679	Connected member	-33.99	-0.23	0.49	-0.43	0.03
	CO680	Main member	-12.71	-0.23	-0.28	0.57	-0.06
52	CO680	Connected member	3.57	-0.52	1.21	-1.42	-0.74
	CO680	Connected member	6.51	-0.15	0.6	-0.45	0.32
52	CO680	Connected member	-2.87	-0.39	0.11	-0.04	-0.51
	CO680	Connected member	-12.53	-0.22	0.47	-0.36	0.05
52	CO681	Main member	-14.8	-0.2	0.42	2.2	0.02
	CO681	Connected member	6.53	-0.36	1.94	-2.47	-0.4
52	CO681	Connected member	10.85	-0.18	0.49	-0.17	0.12
	CO681	Connected member	-4.67	-0.19	0.17	0.02	-0.22
52	CO681	Connected member	-15.08	-0.19	0.39	-0.13	0.04
	CO682	Main member	-31.27	-0.01	-1.94	-3.4	0.08
52	CO682	Connected member	5.16	0.07	-0.48	1	0.24
	CO682	Connected member	12.75	-0.07	1.11	-1.51	-0.19
52	CO682	Connected member	-5.57	0.14	-0.17	0.03	0.19
	CO682	Connected member	-33.85	-0.01	0.67	-0.91	0.03
52	CO683	Main member	-32.87	-0.01	-1.92	-3.29	0.08
	CO683	Connected member	14.69	0.07	-0.46	0.98	0.24
52	CO683	Connected member	22.09	-0.07	1.15	-1.5	-0.19
	CO683	Connected member	-10.37	0.14	-0.23	0.1	0.19
52	CO683	Connected member	-37.37	-0.02	0.69	-0.91	0.02
	CO684	Main member	-42.9	-0.01	-1.96	-3.52	0.08
52	CO684	Connected member	8.99	0.07	-0.46	0.96	0.24
	CO684	Connected member	18.89	-0.07	1.24	-1.72	-0.19
52	CO684	Connected member	-10.47	0.14	-0.23	0.11	0.2
	CO684	Connected member	-44.95	-0.02	0.69	-0.95	0.02
52	CO685	Main member	-16.71	-0.01	-1.89	-3.07	0.08
	CO685	Connected member	13.18	0.07	-0.49	1.04	0.23



::LAV/team::

Page: 272/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO685	Connected member	17.23	-0.07	0.97	-1.2	-0.18
	CO685	Connected member	-5.26	0.13	-0.17	0.02	0.18
	CO685	Connected member	-22.88	-0.01	0.67	-0.85	0.03
52	CO686	Main member	-62.75	-0.25	-0.38	-0.1	-0.07
	CO686	Connected member	-2.13	-0.52	1.25	-1.55	-0.72
	CO686	Connected member	11.39	-0.16	1.07	-1.31	0.32
52	CO686	Connected member	-14.47	-0.38	-0.03	0.16	-0.49
	CO686	Connected member	-54.52	-0.24	0.52	-0.49	0.02
	CO687	Main member	-36.2	-0.24	-0.33	0.25	-0.08
52	CO687	Connected member	2.16	-0.52	1.22	-1.48	-0.73
	CO687	Connected member	10.31	-0.15	0.83	-0.87	0.33
	CO687	Connected member	-8.56	-0.38	0.03	0.06	-0.5
52	CO687	Connected member	-32.99	-0.23	0.49	-0.42	0.02
	CO688	Main member	-35.88	-0.24	-0.33	0.25	-0.07
	CO688	Connected member	2.13	-0.52	1.23	-1.48	-0.72
52	CO688	Connected member	10.17	-0.15	0.83	-0.86	0.32
	CO688	Connected member	-8.5	-0.38	0.03	0.07	-0.49
	CO688	Connected member	-32.64	-0.23	0.49	-0.43	0.03
52	CO689	Main member	-10.87	-0.23	-0.27	0.61	-0.06
	CO689	Connected member	4.66	-0.52	1.21	-1.42	-0.74
	CO689	Connected member	7.16	-0.15	0.58	-0.41	0.32
52	CO689	Connected member	-2.86	-0.39	0.11	-0.04	-0.51
	CO689	Connected member	-11.18	-0.22	0.47	-0.36	0.05
	CO690	Main member	-12.97	-0.2	0.43	2.24	0.02
52	CO690	Connected member	7.62	-0.36	1.95	-2.47	-0.4
	CO690	Connected member	11.5	-0.18	0.48	-0.13	0.12
	CO690	Connected member	-4.65	-0.19	0.17	0.02	-0.22
52	CO690	Connected member	-13.72	-0.19	0.39	-0.12	0.04
	CO691	Main member	-29.43	-0.01	-1.94	-3.36	0.08
	CO691	Connected member	6.25	0.07	-0.48	1.01	0.24
52	CO691	Connected member	13.4	-0.07	1.09	-1.47	-0.19
	CO691	Connected member	-5.56	0.14	-0.17	0.03	0.19
	CO691	Connected member	-32.5	-0.01	0.67	-0.9	0.03
52	CO692	Main member	-31.03	-0.01	-1.91	-3.25	0.08
	CO692	Connected member	15.78	0.07	-0.46	0.98	0.24
	CO692	Connected member	22.74	-0.07	1.13	-1.46	-0.19
52	CO692	Connected member	-10.35	0.14	-0.23	0.1	0.19
	CO692	Connected member	-36.02	-0.02	0.69	-0.91	0.02
	CO693	Main member	-49.26	-0.01	-1.98	-3.63	0.08
52	CO693	Connected member	7.89	0.07	-0.46	0.94	0.24
	CO693	Connected member	19.39	-0.07	1.31	-1.85	-0.19
	CO693	Connected member	-11.51	0.14	-0.25	0.13	0.2
52	CO693	Connected member	-50.56	-0.02	0.7	-0.97	0.02
	CO694	Main member	-23.07	-0.01	-1.91	-3.18	0.08
	CO694	Connected member	12.08	0.07	-0.48	1.02	0.23
52	CO694	Connected member	17.73	-0.07	1.04	-1.33	-0.19
	CO694	Connected member	-6.3	0.13	-0.18	0.04	0.19
	CO694	Connected member	-28.48	-0.01	0.67	-0.88	0.03
52	CO695	Main member	-69.12	-0.26	-0.4	-0.2	-0.07
	CO695	Connected member	-3.24	-0.52	1.26	-1.58	-0.72
	CO695	Connected member	11.89	-0.16	1.14	-1.44	0.32
52	CO695	Connected member	-15.51	-0.38	-0.05	0.18	-0.48
	CO695	Connected member	-60.13	-0.24	0.52	-0.51	0.02
	CO696	Main member	-42.56	-0.24	-0.35	0.14	-0.08
52	CO696	Connected member	1.05	-0.52	1.23	-1.5	-0.73
	CO696	Connected member	10.81	-0.15	0.9	-1	0.33
	CO696	Connected member	-9.6	-0.38	0.01	0.09	-0.5
52	CO696	Connected member	-38.59	-0.23	0.5	-0.45	0.02
	CO697	Main member	-42.24	-0.25	-0.35	0.15	-0.07
	CO697	Connected member	1.02	-0.52	1.23	-1.5	-0.73
52	CO697	Connected member	10.67	-0.15	0.89	-1	0.32
	CO697	Connected member	-9.54	-0.38	0.01	0.09	-0.49
	CO697	Connected member	-38.24	-0.23	0.5	-0.45	0.03
52	CO698	Main member	-17.24	-0.24	-0.29	0.51	-0.06
	CO698	Connected member	3.55	-0.52	1.22	-1.44	-0.74
	CO698	Connected member	7.66	-0.15	0.65	-0.54	0.32
52	CO698	Connected member	-3.9	-0.39	0.09	-0.01	-0.51
	CO698	Connected member	-16.78	-0.22	0.48	-0.38	0.04
	CO699	Main member	-19.33	-0.2	0.41	2.13	0.02
52	CO699	Connected member	6.51	-0.36	1.95	-2.49	-0.4
	CO699	Connected member	12	-0.18	0.54	-0.26	0.12
	CO699	Connected member	-5.69	-0.19	0.15	0.04	-0.22
52	CO699	Connected member	-19.33	-0.19	0.4	-0.15	0.04
	CO700	Main member	-35.79	-0.01	-1.95	-3.47	0.08
	CO700	Connected member	5.15	0.07	-0.48	0.99	0.24
52	CO700	Connected member	13.9	-0.07	1.16	-1.61	-0.19
	CO700	Connected member	-6.59	0.14	-0.19	0.05	0.19
	CO700	Connected member	-38.1	-0.01	0.68	-0.93	0.03
52	CO701	Main member	-37.39	-0.01	-1.93	-3.36	0.08
	CO701	Connected member	14.68	0.07	-0.46	0.96	0.24
	CO701	Connected member	23.25	-0.07	1.2	-1.59	-0.19
52	CO701	Connected member	-11.39	0.14	-0.25	0.13	0.19
	CO701	Connected member	-41.62	-0.02	0.7	-0.93	0.02
	CO702	Main member	-53.76	-0.01	-1.99	-3.7	0.08
52	CO702	Connected member	7.47	0.07	-0.45	0.93	0.24
	CO702	Connected member	19.96	-0.07	1.36	-1.93	-0.19
	CO702	Connected member	-12.54	0.14	-0.27	0.15	0.2
52	CO702	Connected member	-54.42	-0.02	0.7	-0.99	0.02
	CO703	Main member	-27.57	-0.01	-1.92	-3.25	0.08
	CO703	Connected member	11.66	0.07	-0.47	1	0.23
52	CO703	Connected member	18.3	-0.07	1.09	-1.42	-0.19
	CO703	Connected member	-7.33	0.13	-0.2	0.06	0.19
	CO703	Connected member	-32.34	-0.01	0.68	-0.89	0.03
52	CO704	Main member	-73.63	-0.26	-0.41	-0.26	-0.07



::LAV/team::

Page: 273/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO704	Connected member	-3.66	-0.52	1.26	-1.59	-0.72
	CO704	Connected member	12.46	-0.16	1.19	-1.53	0.32
	CO704	Connected member	-16.54	-0.38	-0.07	0.2	-0.48
52	CO704	Connected member	-63.99	-0.24	0.53	-0.53	0.02
	CO705	Main member	-47.07	-0.24	-0.36	0.08	-0.08
	CO705	Connected member	0.63	-0.52	1.23	-1.52	-0.73
52	CO705	Connected member	11.38	-0.15	0.94	-1.08	0.33
	CO705	Connected member	-10.64	-0.38	0	0.11	-0.5
	CO705	Connected member	-42.45	-0.23	0.5	-0.46	0.02
52	CO706	Main member	-46.75	-0.25	-0.36	0.09	-0.07
	CO706	Connected member	0.6	-0.52	1.24	-1.52	-0.73
	CO706	Connected member	11.24	-0.15	0.94	-1.08	0.32
52	CO706	Connected member	-10.58	-0.38	0	0.11	-0.49
	CO706	Connected member	-42.1	-0.23	0.51	-0.47	0.03
	CO707	Main member	-21.74	-0.24	-0.3	0.44	-0.06
52	CO707	Connected member	3.13	-0.52	1.23	-1.46	-0.74
	CO707	Connected member	8.22	-0.15	0.69	-0.62	0.32
	CO707	Connected member	-4.93	-0.39	0.07	0.01	-0.51
52	CO707	Connected member	-20.64	-0.22	0.49	-0.4	0.04
	CO708	Main member	-23.84	-0.2	0.4	2.07	0.02
	CO708	Connected member	6.09	-0.36	1.96	-2.51	-0.4
52	CO708	Connected member	12.57	-0.18	0.59	-0.34	0.12
	CO708	Connected member	-6.73	-0.19	0.13	0.06	-0.22
	CO708	Connected member	-23.19	-0.2	0.4	-0.16	0.03
52	CO709	Main member	-40.29	-0.01	-1.97	-3.54	0.09
	CO709	Connected member	4.73	0.07	-0.47	0.97	0.24
	CO709	Connected member	14.47	-0.07	1.21	-1.69	-0.19
52	CO709	Connected member	-7.63	0.14	-0.21	0.07	0.19
	CO709	Connected member	-41.96	-0.01	0.68	-0.94	0.03
	CO710	Main member	-41.89	-0.01	-1.94	-3.43	0.08
52	CO710	Connected member	14.26	0.07	-0.45	0.95	0.24
	CO710	Connected member	23.82	-0.07	1.25	-1.68	-0.19
	CO710	Connected member	-12.43	0.14	-0.26	0.15	0.19
52	CO710	Connected member	-45.48	-0.02	0.71	-0.95	0.02
	CO711	Main member	-37.23	-0.01	-1.95	-3.45	0.08
	CO711	Connected member	8.6	0.07	-0.47	0.98	0.24
52	CO711	Connected member	17.29	-0.07	1.18	-1.61	-0.19
	CO711	Connected member	-8.76	0.14	-0.21	0.08	0.2
	CO711	Connected member	-39.87	-0.02	0.68	-0.92	0.02
52	CO712	Main member	-11.05	-0.01	-1.87	-3	0.08
	CO712	Connected member	12.79	0.07	-0.49	1.06	0.23
	CO712	Connected member	15.63	-0.07	0.91	-1.1	-0.18
52	CO712	Connected member	-3.55	0.13	-0.14	-0.01	0.18
	CO712	Connected member	-17.8	-0.01	0.66	-0.83	0.02
	CO713	Main member	-57.08	-0.25	-0.37	-0.03	-0.07
52	CO713	Connected member	-2.52	-0.52	1.24	-1.53	-0.72
	CO713	Connected member	9.79	-0.16	1.02	-1.22	0.32
	CO713	Connected member	-12.76	-0.38	-0.01	0.12	-0.49
52	CO713	Connected member	-49.44	-0.24	0.5	-0.47	0.03
	CO714	Main member	-30.53	-0.24	-0.32	0.31	-0.08
	CO714	Connected member	1.77	-0.52	1.21	-1.45	-0.73
52	CO714	Connected member	8.71	-0.15	0.77	-0.77	0.33
	CO714	Connected member	-6.85	-0.38	0.06	0.03	-0.5
	CO714	Connected member	-27.91	-0.23	0.48	-0.4	0.02
52	CO715	Main member	-30.21	-0.24	-0.32	0.32	-0.07
	CO715	Connected member	1.75	-0.52	1.22	-1.46	-0.72
	CO715	Connected member	8.58	-0.15	0.77	-0.77	0.32
52	CO715	Connected member	-6.79	-0.38	0.06	0.03	-0.49
	CO715	Connected member	-27.55	-0.23	0.48	-0.41	0.03
	CO716	Main member	-5.2	-0.23	-0.26	0.68	-0.06
52	CO716	Connected member	4.27	-0.52	1.21	-1.4	-0.74
	CO716	Connected member	5.56	-0.15	0.52	-0.31	0.32
	CO716	Connected member	-1.15	-0.39	0.13	-0.07	-0.51
52	CO716	Connected member	-6.1	-0.21	0.46	-0.34	0.05
	CO717	Main member	-7.29	-0.2	0.44	2.3	0.02
	CO717	Connected member	7.23	-0.36	1.94	-2.45	-0.39
52	CO717	Connected member	9.91	-0.18	0.42	-0.03	0.12
	CO717	Connected member	-2.95	-0.19	0.19	-0.02	-0.23
	CO717	Connected member	-8.64	-0.19	0.38	-0.1	0.04
52	CO718	Main member	-23.76	-0.01	-1.93	-3.29	0.08
	CO718	Connected member	5.86	0.07	-0.49	1.03	0.24
	CO718	Connected member	11.8	-0.07	1.03	-1.37	-0.19
52	CO718	Connected member	-3.85	0.14	-0.15	0	0.19
	CO718	Connected member	-27.42	-0.01	0.66	-0.88	0.02
	CO719	Main member	-25.37	-0.01	-1.9	-3.18	0.08
52	CO719	Connected member	15.39	0.07	-0.47	1.01	0.24
	CO719	Connected member	21.14	-0.07	1.07	-1.36	-0.19
	CO719	Connected member	-8.65	0.14	-0.2	0.07	0.19
52	CO719	Connected member	-30.94	-0.02	0.68	-0.88	0.02
	CO720	Main member	-59.69	0	-1.26	-2.18	0.01
	CO720	Connected member	-5.41	0	0.33	-0.23	0.02
52	CO720	Connected member	7.13	-0.01	1.22	-1.72	-0.02
	CO720	Connected member	-11.38	0.01	-0.12	0.1	0.01
	CO720	Connected member	-52.3	0	0.61	-0.79	0.01
52	CO721	Main member	-57.85	0	-1.26	-2.14	0.01
	CO721	Connected member	-4.32	0	0.33	-0.23	0.02
	CO721	Connected member	7.78	-0.01	1.21	-1.68	-0.02
52	CO721	Connected member	-11.36	0.01	-0.12	0.1	0.01
	CO721	Connected member	-50.94	0	0.61	-0.78	0.01
	CO722	Main member	-40.23	-0.01	-1.96	-3.49	0.08
52	CO722	Connected member	8.32	0.07	-0.47	0.97	0.24
	CO722	Connected member	17.67	-0.07	1.21	-1.67	-0.19
	CO722	Connected member	-9.45	0.14	-0.22	0.09	0.2
	CO722	Connected member	-42.45	-0.02	0.69	-0.94	0.02



::LAV/team::

Page: 274/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO723	Main member	-14.05	-0.01	-1.88	-3.05	0.08
	CO723	Connected member	12.51	0.07	-0.49	1.05	0.23
	CO723	Connected member	16.01	-0.07	0.94	-1.16	-0.18
52	CO723	Connected member	-4.24	0.13	-0.15	0	0.18
	CO723	Connected member	-20.37	-0.01	0.66	-0.84	0.02
	CO724	Main member	-60.09	-0.25	-0.38	-0.07	-0.07
52	CO724	Connected member	-2.8	-0.52	1.24	-1.54	-0.72
	CO724	Connected member	10.17	-0.16	1.05	-1.27	0.32
	CO724	Connected member	-13.45	-0.38	-0.02	0.14	-0.48
52	CO724	Connected member	-52.01	-0.24	0.51	-0.48	0.03
	CO725	Main member	-33.53	-0.24	-0.33	0.27	-0.08
	CO725	Connected member	1.49	-0.52	1.22	-1.46	-0.73
52	CO725	Connected member	9.09	-0.15	0.8	-0.83	0.33
	CO725	Connected member	-7.54	-0.38	0.05	0.05	-0.5
	CO725	Connected member	-30.48	-0.23	0.48	-0.41	0.02
52	CO726	Main member	-33.21	-0.24	-0.33	0.28	-0.07
	CO726	Connected member	1.46	-0.52	1.22	-1.47	-0.72
	CO726	Connected member	8.96	-0.15	0.8	-0.82	0.32
52	CO726	Connected member	-7.48	-0.38	0.05	0.05	-0.49
	CO726	Connected member	-30.13	-0.23	0.49	-0.42	0.03
52	CO727	Main member	-8.2	-0.23	-0.27	0.64	-0.06
	CO727	Connected member	3.99	-0.52	1.21	-1.41	-0.74
	CO727	Connected member	5.94	-0.15	0.55	-0.37	0.32
52	CO727	Connected member	-1.84	-0.39	0.12	-0.06	-0.51
	CO727	Connected member	-8.67	-0.22	0.46	-0.35	0.05
	CO728	Main member	-10.3	-0.2	0.43	2.26	0.02
52	CO728	Connected member	6.95	-0.36	1.94	-2.46	-0.4
	CO728	Connected member	10.29	-0.18	0.45	-0.08	0.12
	CO728	Connected member	-3.64	-0.19	0.18	0	-0.22
52	CO728	Connected member	-11.22	-0.19	0.38	-0.11	0.04
	CO729	Main member	-26.76	-0.01	-1.93	-3.33	0.08
	CO729	Connected member	5.58	0.07	-0.49	1.02	0.24
52	CO729	Connected member	12.18	-0.07	1.06	-1.43	-0.19
	CO729	Connected member	-4.54	0.14	-0.16	0.01	0.19
	CO729	Connected member	-29.99	-0.01	0.66	-0.89	0.03
52	CO730	Main member	-28.37	-0.01	-1.91	-3.22	0.08
	CO730	Connected member	15.11	0.07	-0.47	1	0.24
	CO730	Connected member	21.52	-0.07	1.1	-1.41	-0.19
52	CO730	Connected member	-9.34	0.14	-0.21	0.08	0.19
	CO730	Connected member	-33.51	-0.02	0.69	-0.89	0.02
	CO731	Main member	-38.4	-0.01	-1.95	-3.45	0.08
52	CO731	Connected member	9.41	0.07	-0.47	0.98	0.24
	CO731	Connected member	18.32	-0.07	1.2	-1.63	-0.19
	CO731	Connected member	-9.43	0.14	-0.22	0.09	0.2
52	CO731	Connected member	-41.09	-0.02	0.69	-0.93	0.02
	CO732	Main member	-12.21	-0.01	-1.87	-3	0.08
	CO732	Connected member	13.6	0.07	-0.49	1.05	0.23
52	CO732	Connected member	16.66	-0.07	0.93	-1.12	-0.18
	CO732	Connected member	-4.22	0.13	-0.15	0	0.18
	CO732	Connected member	-19.02	-0.01	0.66	-0.84	0.02
52	CO733	Main member	-58.25	-0.25	-0.37	-0.03	-0.07
	CO733	Connected member	-1.71	-0.52	1.25	-1.54	-0.72
	CO733	Connected member	10.82	-0.16	1.03	-1.23	0.32
52	CO733	Connected member	-13.43	-0.38	-0.02	0.14	-0.49
	CO733	Connected member	-50.66	-0.24	0.51	-0.48	0.03
	CO734	Main member	-31.69	-0.24	-0.32	0.31	-0.08
52	CO734	Connected member	2.58	-0.52	1.22	-1.46	-0.73
	CO734	Connected member	9.74	-0.15	0.78	-0.79	0.33
	CO734	Connected member	-7.53	-0.38	0.05	0.04	-0.51
52	CO734	Connected member	-29.13	-0.23	0.48	-0.41	0.02
	CO735	Main member	-31.37	-0.24	-0.32	0.32	-0.07
	CO735	Connected member	2.56	-0.52	1.22	-1.47	-0.72
52	CO735	Connected member	9.61	-0.15	0.78	-0.78	0.32
	CO735	Connected member	-7.47	-0.38	0.05	0.05	-0.49
	CO735	Connected member	-28.78	-0.23	0.49	-0.41	0.03
52	CO736	Main member	-6.37	-0.23	-0.26	0.68	-0.06
	CO736	Connected member	5.08	-0.52	1.21	-1.4	-0.74
	CO736	Connected member	6.59	-0.15	0.54	-0.33	0.32
52	CO736	Connected member	-1.82	-0.39	0.12	-0.06	-0.51
	CO736	Connected member	-7.32	-0.22	0.46	-0.34	0.05
	CO737	Main member	-8.46	-0.2	0.44	2.3	0.02
52	CO737	Connected member	8.04	-0.36	1.94	-2.45	-0.4
	CO737	Connected member	10.94	-0.18	0.43	-0.04	0.12
	CO737	Connected member	-3.62	-0.19	0.18	0	-0.23
52	CO737	Connected member	-9.86	-0.19	0.38	-0.11	0.04
	CO738	Main member	-24.93	-0.01	-1.93	-3.29	0.08
	CO738	Connected member	6.67	0.07	-0.49	1.02	0.24
52	CO738	Connected member	12.83	-0.07	1.05	-1.39	-0.19
	CO738	Connected member	-4.52	0.14	-0.16	0.01	0.19
	CO738	Connected member	-28.64	-0.01	0.66	-0.88	0.03
52	CO739	Main member	-26.53	-0.01	-1.9	-3.18	0.08
	CO739	Connected member	16.2	0.07	-0.47	1	0.24
	CO739	Connected member	22.17	-0.07	1.09	-1.37	-0.19
52	CO739	Connected member	-9.32	0.14	-0.21	0.08	0.19
	CO739	Connected member	-32.16	-0.02	0.69	-0.89	0.02
	CO740	Main member	-32.73	-0.01	-1.94	-3.38	0.08
52	CO740	Connected member	9.02	0.07	-0.48	1	0.24
	CO740	Connected member	16.72	-0.07	1.14	-1.53	-0.19
	CO740	Connected member	-7.73	0.14	-0.19	0.06	0.19
52	CO740	Connected member	-36.02	-0.02	0.67	-0.91	0.02
	CO741	Main member	-6.55	-0.01	-1.86	-2.93	0.08
	CO741	Connected member	13.2	0.07	-0.5	1.07	0.23
	CO741	Connected member	15.06	-0.07	0.87	-1.01	-0.18
	CO741	Connected member	-2.52	0.13	-0.13	-0.03	0.18



::LAV/team::

Page: 275/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO741	Connected member	-13.94	-0.01	0.65	-0.81	0.02
	CO742	Main member	-52.58	-0.25	-0.37	0.03	-0.07
	CO742	Connected member	-2.09	-0.52	1.24	-1.52	-0.72
	CO742	Connected member	9.23	-0.16	0.97	-1.13	0.32
	CO742	Connected member	-11.73	-0.38	0	0.1	-0.49
52	CO742	Connected member	-45.58	-0.23	0.5	-0.45	0.03
	CO743	Main member	-26.02	-0.24	-0.31	0.37	-0.08
	CO743	Connected member	2.19	-0.52	1.21	-1.44	-0.73
	CO743	Connected member	8.14	-0.15	0.72	-0.69	0.33
	CO743	Connected member	-5.82	-0.38	0.07	0.01	-0.51
52	CO743	Connected member	-24.04	-0.22	0.47	-0.39	0.02
	CO744	Main member	-25.7	-0.24	-0.31	0.38	-0.07
	CO744	Connected member	2.17	-0.52	1.21	-1.44	-0.72
	CO744	Connected member	8.01	-0.15	0.72	-0.68	0.32
	CO744	Connected member	-5.76	-0.38	0.07	0.01	-0.49
52	CO744	Connected member	-23.69	-0.22	0.48	-0.39	0.03
	CO745	Main member	-0.7	-0.23	-0.25	0.74	-0.06
	CO745	Connected member	4.69	-0.52	1.2	-1.38	-0.74
	CO745	Connected member	4.99	-0.15	0.48	-0.23	0.32
	CO745	Connected member	-0.12	-0.39	0.15	-0.09	-0.51
52	CO745	Connected member	-2.24	-0.21	0.45	-0.32	0.05
	CO746	Main member	-2.79	-0.2	0.45	2.36	0.02
	CO746	Connected member	7.65	-0.36	1.93	-2.43	-0.39
	CO746	Connected member	9.34	-0.18	0.37	0.05	0.12
	CO746	Connected member	-1.91	-0.19	0.21	-0.04	-0.23
52	CO746	Connected member	-4.78	-0.19	0.37	-0.09	0.04
	CO747	Main member	-19.26	-0.01	-1.91	-3.22	0.08
	CO747	Connected member	6.28	0.07	-0.5	1.04	0.23
	CO747	Connected member	11.23	-0.07	0.99	-1.29	-0.19
	CO747	Connected member	-2.81	0.14	-0.14	-0.02	0.19
52	CO747	Connected member	-23.56	-0.01	0.65	-0.86	0.02
	CO748	Main member	-20.87	-0.01	-1.89	-3.11	0.08
	CO748	Connected member	15.81	0.07	-0.48	1.02	0.24
	CO748	Connected member	20.57	-0.07	1.03	-1.27	-0.19
	CO748	Connected member	-7.61	0.14	-0.19	0.05	0.19
52	CO748	Connected member	-27.08	-0.02	0.68	-0.87	0.02
	CO749	Main member	-37.16	0	-1.22	-1.85	0.01
	CO749	Connected member	-3.29	0	0.3	-0.16	0.02
	CO749	Connected member	4.29	-0.01	0.99	-1.3	-0.02
	CO749	Connected member	-6.2	0.01	-0.04	0	0.01
52	CO749	Connected member	-32.99	0	0.58	-0.71	0.01
	CO750	Main member	-33.49	0	-1.2	-1.77	0.01
	CO750	Connected member	-1.11	0	0.3	-0.15	0.02
	CO750	Connected member	5.59	-0.01	0.96	-1.22	-0.02
	CO750	Connected member	-6.17	0.01	-0.04	0	0.01
52	CO750	Connected member	-30.28	0	0.58	-0.69	0.01
	CO751	Main member	-53.71	0	-1.25	-2.09	0.01
	CO751	Connected member	-4.44	0	0.32	-0.22	0.02
	CO751	Connected member	6.95	-0.01	1.17	-1.62	-0.02
	CO751	Connected member	-9.99	0.01	-0.1	0.07	0.01
52	CO751	Connected member	-47.54	0	0.6	-0.77	0.01
	CO752	Main member	-50.03	0	-1.24	-2.01	0.01
	CO752	Connected member	-2.26	0	0.33	-0.21	0.02
	CO752	Connected member	8.25	-0.01	1.13	-1.54	-0.02
	CO752	Connected member	-9.95	0.01	-0.1	0.07	0.01
52	CO752	Connected member	-44.83	0	0.6	-0.76	0.01
	CO753	Main member	-58.21	0	-1.26	-2.16	0.01
	CO753	Connected member	-4.87	0	0.33	-0.23	0.02
	CO753	Connected member	7.52	-0.01	1.21	-1.7	-0.02
	CO753	Connected member	-11.02	0.01	-0.12	0.09	0.01
52	CO753	Connected member	-51.4	0	0.61	-0.78	0.01
	CO754	Main member	-54.53	0	-1.25	-2.08	0.01
	CO754	Connected member	-2.68	0	0.33	-0.22	0.02
	CO754	Connected member	8.82	-0.01	1.18	-1.62	-0.02
	CO754	Connected member	-10.99	0.01	-0.12	0.09	0.01
52	CO754	Connected member	-48.69	0	0.61	-0.77	0.01
	CO755	Main member	-41.67	0	-1.23	-1.92	0.01
	CO755	Connected member	-3.72	0	0.31	-0.17	0.02
	CO755	Connected member	4.86	-0.01	1.04	-1.38	-0.02
	CO755	Connected member	-7.24	0.01	-0.06	0.02	0.01
52	CO755	Connected member	-36.85	0	0.58	-0.72	0.01
	CO756	Main member	-37.99	0	-1.21	-1.84	0.01
	CO756	Connected member	-1.53	0	0.31	-0.16	0.02
	CO756	Connected member	6.16	-0.01	1.01	-1.31	-0.02
	CO756	Connected member	-7.21	0.01	-0.06	0.02	0.01
52	CO756	Connected member	-34.14	0	0.58	-0.71	0.01
	CO757	Main member	-34.26	-0.01	-1.94	-3.4	0.08
	CO757	Connected member	9.28	0.07	-0.48	0.99	0.24
	CO757	Connected member	17.49	-0.07	1.16	-1.57	-0.19
	CO757	Connected member	-8.06	0.14	-0.2	0.07	0.19
52	CO757	Connected member	-37.69	-0.02	0.68	-0.91	0.02
	CO758	Main member	-8.07	-0.01	-1.87	-2.96	0.08
	CO758	Connected member	13.47	0.07	-0.5	1.06	0.23
	CO758	Connected member	15.83	-0.07	0.89	-1.05	-0.18
	CO758	Connected member	-2.85	0.13	-0.13	-0.02	0.18
52	CO758	Connected member	-15.62	-0.01	0.65	-0.82	0.02
	CO759	Main member	-54.11	-0.25	-0.37	0.01	-0.07
	CO759	Connected member	-1.83	-0.52	1.24	-1.52	-0.72
	CO759	Connected member	10	-0.16	0.99	-1.17	0.32
	CO759	Connected member	-12.06	-0.38	0	0.11	-0.49
52	CO759	Connected member	-47.26	-0.23	0.5	-0.46	0.03
	CO760	Main member	-27.55	-0.24	-0.32	0.35	-0.08
	CO760	Connected member	2.46	-0.52	1.21	-1.45	-0.73
		Connected member	8.92	-0.15	0.74	-0.73	0.33



::LAV/team::

Page: 276/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO760	Connected member	-6.15	-0.38	0.06	0.02	-0.51
	CO760	Connected member	-25.72	-0.22	0.47	-0.39	0.02
	CO761	Main member	-27.23	-0.24	-0.32	0.36	-0.07
52	CO761	Connected member	2.43	-0.52	1.21	-1.45	-0.72
	CO761	Connected member	8.78	-0.15	0.74	-0.72	0.32
	CO761	Connected member	-6.09	-0.38	0.06	0.02	-0.49
52	CO761	Connected member	-25.37	-0.23	0.48	-0.4	0.03
	CO762	Main member	-2.22	-0.23	-0.25	0.72	-0.06
	CO762	Connected member	4.96	-0.52	1.2	-1.39	-0.74
52	CO762	Connected member	5.77	-0.15	0.5	-0.26	0.32
	CO762	Connected member	-0.45	-0.39	0.14	-0.08	-0.51
	CO762	Connected member	-3.91	-0.21	0.46	-0.33	0.05
52	CO763	Main member	-4.32	-0.2	0.44	2.34	0.02
	CO763	Connected member	7.92	-0.36	1.93	-2.44	-0.4
	CO763	Connected member	10.11	-0.18	0.39	0.02	0.12
52	CO763	Connected member	-2.24	-0.19	0.2	-0.02	-0.23
	CO763	Connected member	-6.46	-0.19	0.37	-0.09	0.04
	CO764	Main member	-20.79	-0.01	-1.92	-3.24	0.08
52	CO764	Connected member	6.54	0.07	-0.49	1.04	0.24
	CO764	Connected member	12.01	-0.07	1.01	-1.33	-0.19
	CO764	Connected member	-3.15	0.14	-0.14	-0.01	0.19
52	CO764	Connected member	-25.24	-0.01	0.65	-0.87	0.02
	CO765	Main member	-22.39	-0.01	-1.9	-3.13	0.08
	CO765	Connected member	16.07	0.07	-0.48	1.01	0.24
52	CO765	Connected member	21.35	-0.07	1.05	-1.31	-0.19
	CO765	Connected member	-7.95	0.14	-0.2	0.06	0.19
	CO765	Connected member	-28.76	-0.02	0.68	-0.87	0.02
52	CO766	Main member	-30.58	-0.01	-1.93	-3.32	0.08
	CO766	Connected member	11.47	0.07	-0.48	1	0.24
	CO766	Connected member	18.79	-0.07	1.12	-1.49	-0.19
52	CO766	Connected member	-8.03	0.14	-0.2	0.07	0.19
	CO766	Connected member	-34.99	-0.02	0.68	-0.9	0.02
	CO767	Main member	-4.4	-0.01	-1.85	-2.87	0.08
52	CO767	Connected member	15.65	0.07	-0.5	1.07	0.23
	CO767	Connected member	17.13	-0.07	0.85	-0.97	-0.18
	CO767	Connected member	-2.82	0.13	-0.13	-0.02	0.18
52	CO767	Connected member	-12.92	-0.01	0.65	-0.81	0.02
	CO768	Main member	-50.43	-0.25	-0.35	0.09	-0.07
	CO768	Connected member	0.36	-0.52	1.24	-1.52	-0.72
52	CO768	Connected member	11.3	-0.16	0.96	-1.09	0.32
	CO768	Connected member	-12.03	-0.38	0	0.11	-0.49
	CO768	Connected member	-44.55	-0.23	0.5	-0.45	0.03
52	CO769	Main member	-23.88	-0.23	-0.3	0.43	-0.09
	CO769	Connected member	4.64	-0.52	1.21	-1.44	-0.73
	CO769	Connected member	10.22	-0.14	0.71	-0.65	0.33
52	CO769	Connected member	-6.12	-0.38	0.06	0.02	-0.51
	CO769	Connected member	-23.02	-0.22	0.47	-0.38	0.02
	CO770	Main member	-23.56	-0.24	-0.3	0.44	-0.07
52	CO770	Connected member	4.62	-0.52	1.22	-1.44	-0.73
	CO770	Connected member	10.08	-0.15	0.71	-0.64	0.32
	CO770	Connected member	-6.06	-0.38	0.06	0.02	-0.5
52	CO770	Connected member	-22.67	-0.22	0.48	-0.38	0.03
	CO771	Main member	1.45	-0.23	-0.24	0.8	-0.07
	CO771	Connected member	7.14	-0.52	1.2	-1.38	-0.74
52	CO771	Connected member	7.07	-0.15	0.46	-0.19	0.32
	CO771	Connected member	-0.42	-0.39	0.14	-0.08	-0.51
	CO771	Connected member	-1.21	-0.21	0.45	-0.31	0.05
52	CO772	Main member	-0.65	-0.2	0.46	2.42	0.02
	CO772	Connected member	10.1	-0.36	1.93	-2.43	-0.4
	CO772	Connected member	11.41	-0.18	0.36	0.09	0.12
52	CO772	Connected member	-2.21	-0.19	0.2	-0.03	-0.23
	CO772	Connected member	-3.76	-0.19	0.37	-0.08	0.04
	CO773	Main member	-17.12	-0.01	-1.9	-3.16	0.08
52	CO773	Connected member	8.73	0.07	-0.49	1.04	0.23
	CO773	Connected member	13.31	-0.07	0.97	-1.25	-0.19
	CO773	Connected member	-3.12	0.14	-0.14	-0.01	0.19
52	CO773	Connected member	-22.54	-0.01	0.66	-0.86	0.02
	CO774	Main member	-18.72	-0.01	-1.88	-3.05	0.08
	CO774	Connected member	18.25	0.07	-0.47	1.02	0.24
52	CO774	Connected member	22.65	-0.07	1.01	-1.23	-0.19
	CO774	Connected member	-7.92	0.14	-0.2	0.06	0.19
	CO774	Connected member	-26.06	-0.02	0.68	-0.86	0.02
52	CO775	Main member	-38.76	-0.01	-1.95	-3.47	0.08
	CO775	Connected member	8.86	0.07	-0.47	0.98	0.24
	CO775	Connected member	18.06	-0.07	1.2	-1.65	-0.19
52	CO775	Connected member	-9.1	0.14	-0.22	0.09	0.2
	CO775	Connected member	-41.55	-0.02	0.68	-0.93	0.02
	CO776	Main member	-12.57	-0.01	-1.88	-3.02	0.08
52	CO776	Connected member	13.05	0.07	-0.49	1.05	0.23
	CO776	Connected member	16.4	-0.07	0.93	-1.14	-0.18
	CO776	Connected member	-3.88	0.13	-0.15	0	0.18
52	CO776	Connected member	-19.48	-0.01	0.66	-0.84	0.02
	CO777	Main member	-58.61	-0.25	-0.38	-0.05	-0.07
	CO777	Connected member	-2.25	-0.52	1.24	-1.54	-0.72
52	CO777	Connected member	10.57	-0.16	1.03	-1.25	0.32
	CO777	Connected member	-13.1	-0.38	-0.02	0.13	-0.49
	CO777	Connected member	-51.12	-0.24	0.51	-0.48	0.03
52	CO778	Main member	-32.05	-0.24	-0.33	0.29	-0.08
	CO778	Connected member	2.04	-0.52	1.22	-1.46	-0.73
	CO778	Connected member	9.48	-0.15	0.79	-0.81	0.33
52	CO778	Connected member	-7.19	-0.38	0.05	0.04	-0.5
	CO778	Connected member	-29.58	-0.23	0.48	-0.41	0.02
	CO779	Main member	-31.73	-0.24	-0.33	0.3	-0.07
52	CO779	Connected member	2.01	-0.52	1.22	-1.47	-0.72



::LAV/team::

Page: 277/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO779	Connected member	9.35	-0.15	0.79	-0.8	0.32
	CO779	Connected member	-7.13	-0.38	0.05	0.04	-0.49
	CO779	Connected member	-29.23	-0.23	0.48	-0.41	0.03
52	CO780	Main member	-6.73	-0.23	-0.26	0.66	-0.06
	CO780	Connected member	4.53	-0.52	1.21	-1.4	-0.74
	CO780	Connected member	6.33	-0.15	0.54	-0.35	0.32
52	CO780	Connected member	-1.48	-0.39	0.12	-0.06	-0.51
	CO780	Connected member	-7.77	-0.22	0.46	-0.34	0.05
	CO781	Main member	-8.82	-0.2	0.43	2.28	0.02
52	CO781	Connected member	7.49	-0.36	1.94	-2.46	-0.4
	CO781	Connected member	10.68	-0.18	0.44	-0.07	0.12
	CO781	Connected member	-3.28	-0.19	0.18	0	-0.23
52	CO781	Connected member	-10.32	-0.19	0.38	-0.11	0.04
	CO782	Main member	-25.29	-0.01	-1.93	-3.31	0.08
	CO782	Connected member	6.12	0.07	-0.49	1.02	0.24
52	CO782	Connected member	12.58	-0.07	1.05	-1.41	-0.19
	CO782	Connected member	-4.18	0.14	-0.16	0.01	0.19
	CO782	Connected member	-29.1	-0.01	0.66	-0.89	0.03
52	CO783	Main member	-26.89	-0.01	-1.91	-3.2	0.08
	CO783	Connected member	15.65	0.07	-0.47	1	0.24
	CO783	Connected member	21.92	-0.07	1.09	-1.4	-0.19
52	CO783	Connected member	-8.98	0.14	-0.21	0.08	0.19
	CO783	Connected member	-32.62	-0.02	0.68	-0.89	0.02
	CO784	Main member	-35.08	-0.01	-1.94	-3.39	0.08
52	CO784	Connected member	11.05	0.07	-0.47	0.98	0.24
	CO784	Connected member	19.36	-0.07	1.17	-1.57	-0.19
	CO784	Connected member	-9.06	0.14	-0.22	0.09	0.19
52	CO784	Connected member	-38.85	-0.02	0.68	-0.92	0.02
	CO785	Main member	-8.9	-0.01	-1.86	-2.94	0.08
	CO785	Connected member	15.23	0.07	-0.49	1.06	0.23
52	CO785	Connected member	17.7	-0.07	0.9	-1.06	-0.18
	CO785	Connected member	-3.85	0.13	-0.15	0	0.18
	CO785	Connected member	-16.77	-0.01	0.66	-0.82	0.02
52	CO786	Main member	-54.94	-0.25	-0.36	0.03	-0.07
	CO786	Connected member	-0.07	-0.52	1.25	-1.53	-0.72
	CO786	Connected member	11.87	-0.16	1	-1.18	0.32
52	CO786	Connected member	-13.06	-0.38	-0.02	0.13	-0.49
	CO786	Connected member	-48.41	-0.24	0.51	-0.46	0.02
	CO787	Main member	-28.38	-0.24	-0.31	0.37	-0.09
52	CO787	Connected member	4.22	-0.52	1.22	-1.46	-0.73
	CO787	Connected member	10.79	-0.15	0.76	-0.73	0.33
	CO787	Connected member	-7.15	-0.38	0.05	0.04	-0.51
52	CO787	Connected member	-26.88	-0.23	0.48	-0.4	0.02
	CO788	Main member	-28.06	-0.24	-0.31	0.38	-0.07
	CO788	Connected member	4.19	-0.52	1.22	-1.46	-0.73
52	CO788	Connected member	10.65	-0.15	0.76	-0.73	0.32
	CO788	Connected member	-7.09	-0.38	0.05	0.04	-0.5
	CO788	Connected member	-26.53	-0.23	0.49	-0.4	0.03
52	CO789	Main member	-3.06	-0.23	-0.25	0.74	-0.07
	CO789	Connected member	6.72	-0.52	1.21	-1.4	-0.74
	CO789	Connected member	7.63	-0.15	0.51	-0.27	0.32
52	CO789	Connected member	-1.45	-0.39	0.12	-0.06	-0.51
	CO789	Connected member	-5.07	-0.21	0.46	-0.33	0.05
	CO790	Main member	-5.15	-0.2	0.45	2.36	0.02
52	CO790	Connected member	9.67	-0.36	1.94	-2.45	-0.4
	CO790	Connected member	11.98	-0.18	0.4	0.01	0.12
	CO790	Connected member	-3.25	-0.19	0.19	-0.01	-0.23
52	CO790	Connected member	-7.62	-0.19	0.38	-0.1	0.04
	CO791	Main member	-21.62	-0.01	-1.91	-3.23	0.08
	CO791	Connected member	8.31	0.07	-0.49	1.03	0.23
52	CO791	Connected member	13.88	-0.07	1.02	-1.33	-0.19
	CO791	Connected member	-4.15	0.14	-0.16	0.01	0.19
	CO791	Connected member	-26.39	-0.01	0.66	-0.87	0.02
52	CO792	Main member	-23.22	-0.01	-1.89	-3.12	0.08
	CO792	Connected member	17.84	0.07	-0.47	1	0.24
	CO792	Connected member	23.22	-0.07	1.06	-1.32	-0.19
52	CO792	Connected member	-8.95	0.14	-0.21	0.08	0.19
	CO792	Connected member	-29.91	-0.02	0.68	-0.88	0.02
	CO793	Main member	-22.23	-0.01	-1.91	-3.22	0.08
52	CO793	Connected member	10	0.07	-0.49	1.03	0.24
	CO793	Connected member	15.39	-0.07	1.03	-1.33	-0.19
	CO793	Connected member	-5.32	0.14	-0.16	0.01	0.19
52	CO793	Connected member	-27.01	-0.02	0.66	-0.87	0.02
	CO794	Main member	3.95	-0.01	-1.83	-2.77	0.07
	CO794	Connected member	14.18	0.07	-0.51	1.11	0.23
52	CO794	Connected member	13.73	-0.06	0.76	-0.82	-0.18
	CO794	Connected member	-0.11	0.13	-0.09	-0.08	0.18
	CO794	Connected member	-4.94	-0.01	0.63	-0.77	0.02
52	CO795	Main member	-42.07	-0.25	-0.34	0.18	-0.07
	CO795	Connected member	-1.1	-0.51	1.22	-1.48	-0.72
	CO795	Connected member	7.9	-0.16	0.86	-0.94	0.32
52	CO795	Connected member	-9.31	-0.37	0.04	0.06	-0.49
	CO795	Connected member	-36.57	-0.23	0.48	-0.42	0.03
	CO796	Main member	-15.51	-0.23	-0.29	0.52	-0.08
52	CO796	Connected member	3.18	-0.52	1.2	-1.4	-0.73
	CO796	Connected member	6.82	-0.15	0.62	-0.5	0.33
	CO796	Connected member	-3.4	-0.38	0.11	-0.03	-0.51
52	CO796	Connected member	-15.04	-0.22	0.46	-0.35	0.02
	CO797	Main member	-15.19	-0.24	-0.29	0.53	-0.07
	CO797	Connected member	3.15	-0.52	1.2	-1.41	-0.72
52	CO797	Connected member	6.69	-0.15	0.62	-0.49	0.32
	CO797	Connected member	-3.34	-0.38	0.1	-0.03	-0.5
	CO797	Connected member	-14.69	-0.22	0.46	-0.35	0.03
52	CO798	Main member	9.81	-0.23	-0.22	0.89	-0.06



::LAV/team::

Page: 278/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO798	Connected member	5.68	-0.52	1.19	-1.34	-0.74
	CO798	Connected member	3.67	-0.15	0.37	-0.03	0.32
	CO798	Connected member	2.3	-0.39	0.18	-0.13	-0.51
	CO798	Connected member	6.77	-0.21	0.44	-0.28	0.05
52	CO799	Main member	7.72	-0.2	0.47	2.51	0.02
	CO799	Connected member	8.63	-0.36	1.92	-2.39	-0.39
	CO799	Connected member	8.02	-0.18	0.27	0.24	0.12
	CO799	Connected member	0.5	-0.19	0.24	-0.08	-0.23
52	CO799	Connected member	4.22	-0.19	0.35	-0.05	0.04
	CO800	Main member	-8.76	-0.01	-1.89	-3.06	0.08
	CO800	Connected member	7.26	0.07	-0.51	1.08	0.23
	CO800	Connected member	9.91	-0.07	0.88	-1.09	-0.19
52	CO800	Connected member	-0.4	0.14	-0.1	-0.07	0.19
	CO800	Connected member	-14.56	-0.01	0.64	-0.82	0.02
	CO801	Main member	-10.37	-0.01	-1.87	-2.95	0.07
	CO801	Connected member	16.78	0.07	-0.49	1.05	0.24
52	CO801	Connected member	19.25	-0.07	0.92	-1.07	-0.19
	CO801	Connected member	-5.2	0.14	-0.15	0.01	0.19
	CO801	Connected member	-18.08	-0.02	0.66	-0.82	0.02
	CO802	Main member	-18.56	-0.01	-1.9	-3.14	0.08
52	CO802	Connected member	12.18	0.07	-0.49	1.04	0.24
	CO802	Connected member	16.69	-0.07	0.99	-1.25	-0.19
	CO802	Connected member	-5.29	0.14	-0.16	0.01	0.19
	CO802	Connected member	-24.31	-0.02	0.66	-0.85	0.02
52	CO803	Main member	7.62	-0.01	-1.82	-2.69	0.07
	CO803	Connected member	16.36	0.07	-0.51	1.11	0.23
	CO803	Connected member	15.03	-0.06	0.73	-0.74	-0.18
	CO803	Connected member	-0.07	0.13	-0.09	-0.08	0.18
52	CO803	Connected member	-2.24	-0.01	0.63	-0.76	0.02
	CO804	Main member	-38.39	-0.24	-0.33	0.26	-0.07
	CO804	Connected member	1.08	-0.52	1.22	-1.47	-0.72
	CO804	Connected member	9.2	-0.15	0.83	-0.86	0.32
52	CO804	Connected member	-9.28	-0.38	0.04	0.05	-0.49
	CO804	Connected member	-33.86	-0.23	0.48	-0.4	0.03
	CO805	Main member	-11.84	-0.23	-0.28	0.61	-0.09
	CO805	Connected member	5.36	-0.52	1.2	-1.39	-0.73
52	CO805	Connected member	8.12	-0.14	0.59	-0.42	0.33
	CO805	Connected member	-3.37	-0.38	0.11	-0.04	-0.51
	CO805	Connected member	-12.33	-0.22	0.46	-0.33	0.02
	CO806	Main member	-11.52	-0.23	-0.27	0.61	-0.07
52	CO806	Connected member	5.34	-0.52	1.2	-1.4	-0.72
	CO806	Connected member	7.99	-0.15	0.58	-0.41	0.32
	CO806	Connected member	-3.31	-0.38	0.11	-0.03	-0.5
	CO806	Connected member	-11.98	-0.22	0.46	-0.34	0.03
52	CO807	Main member	13.48	-0.23	-0.21	0.98	-0.07
	CO807	Connected member	7.85	-0.52	1.19	-1.34	-0.74
	CO807	Connected member	4.97	-0.15	0.34	0.04	0.32
	CO807	Connected member	2.33	-0.39	0.18	-0.14	-0.51
52	CO807	Connected member	9.47	-0.21	0.44	-0.27	0.05
	CO808	Main member	11.39	-0.19	0.49	2.59	0.02
	CO808	Connected member	10.81	-0.36	1.92	-2.39	-0.39
	CO808	Connected member	9.32	-0.18	0.23	0.32	0.12
52	CO808	Connected member	0.54	-0.19	0.24	-0.08	-0.23
	CO808	Connected member	6.93	-0.19	0.35	-0.03	0.04
	CO809	Main member	-5.09	-0.01	-1.87	-2.97	0.08
	CO809	Connected member	9.44	0.07	-0.51	1.08	0.23
52	CO809	Connected member	11.21	-0.07	0.85	-1.01	-0.19
	CO809	Connected member	-0.37	0.14	-0.1	-0.07	0.19
	CO809	Connected member	-11.85	-0.01	0.64	-0.81	0.02
	CO810	Main member	-6.7	-0.01	-1.85	-2.86	0.07
52	CO810	Connected member	18.96	0.07	-0.49	1.06	0.24
	CO810	Connected member	20.54	-0.07	0.88	-1	-0.19
	CO810	Connected member	-5.17	0.14	-0.15	0.01	0.19
	CO810	Connected member	-15.38	-0.02	0.66	-0.81	0.02
52	CO811	Main member	-17.73	-0.01	-1.9	-3.15	0.07
	CO811	Connected member	10.42	0.07	-0.5	1.05	0.24
	CO811	Connected member	14.82	-0.07	0.98	-1.25	-0.19
	CO811	Connected member	-4.28	0.14	-0.15	-0.01	0.19
52	CO811	Connected member	-23.15	-0.02	0.65	-0.85	0.02
	CO812	Main member	8.45	-0.01	-1.82	-2.7	0.07
	CO812	Connected member	14.6	0.07	-0.52	1.12	0.23
	CO812	Connected member	13.16	-0.06	0.71	-0.73	-0.18
52	CO812	Connected member	0.93	0.13	-0.08	-0.1	0.18
	CO812	Connected member	-1.08	-0.01	0.63	-0.75	0.02
	CO813	Main member	-37.56	-0.24	-0.33	0.24	-0.07
	CO813	Connected member	-0.68	-0.51	1.22	-1.46	-0.72
52	CO813	Connected member	7.33	-0.16	0.82	-0.86	0.31
	CO813	Connected member	-8.28	-0.37	0.05	0.04	-0.49
	CO813	Connected member	-32.71	-0.23	0.48	-0.4	0.03
	CO814	Main member	-11.01	-0.23	-0.28	0.59	-0.09
52	CO814	Connected member	3.6	-0.52	1.19	-1.39	-0.73
	CO814	Connected member	6.25	-0.15	0.57	-0.41	0.33
	CO814	Connected member	-2.37	-0.38	0.12	-0.05	-0.51
	CO814	Connected member	-11.18	-0.22	0.45	-0.33	0.02
52	CO815	Main member	-10.69	-0.23	-0.28	0.59	-0.07
	CO815	Connected member	3.58	-0.51	1.19	-1.39	-0.72
	CO815	Connected member	6.12	-0.15	0.57	-0.41	0.32
	CO815	Connected member	-2.31	-0.38	0.12	-0.05	-0.5
52	CO815	Connected member	-10.83	-0.22	0.45	-0.34	0.03
	CO816	Main member	14.32	-0.23	-0.21	0.96	-0.07
	CO816	Connected member	6.1	-0.52	1.18	-1.33	-0.73
	CO816	Connected member	3.11	-0.15	0.32	0.05	0.32
52	CO816	Connected member	3.33	-0.39	0.19	-0.15	-0.51
	CO816	Connected member	10.63	-0.21	0.43	-0.26	0.05



::LAVteam::

Page: 279/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO817	Main member	12.22	-0.19	0.48	2.57	0.02
	CO817	Connected member	9.06	-0.36	1.91	-2.38	-0.39
52	CO817	Connected member	7.45	-0.18	0.22	0.33	0.12
	CO817	Connected member	1.54	-0.19	0.26	-0.1	-0.23
52	CO817	Connected member	8.08	-0.19	0.35	-0.03	0.04
	CO818	Main member	-4.26	-0.01	-1.88	-2.99	0.08
52	CO818	Connected member	7.67	0.07	-0.51	1.09	0.23
	CO818	Connected member	9.34	-0.07	0.83	-1.01	-0.19
52	CO818	Connected member	0.63	0.14	-0.09	-0.09	0.19
	CO818	Connected member	-10.7	-0.01	0.63	-0.8	0.02
52	CO819	Main member	-5.87	-0.01	-1.85	-2.88	0.07
	CO819	Connected member	17.2	0.07	-0.5	1.07	0.24
52	CO819	Connected member	18.68	-0.07	0.87	-0.99	-0.19
	CO819	Connected member	-4.17	0.14	-0.14	-0.01	0.19
52	CO819	Connected member	-14.22	-0.02	0.65	-0.81	0.01
	CO820	Main member	-14.06	-0.01	-1.89	-3.07	0.07
52	CO820	Connected member	12.6	0.07	-0.5	1.05	0.24
	CO820	Connected member	16.12	-0.07	0.95	-1.17	-0.19
52	CO820	Connected member	-4.25	0.14	-0.14	-0.01	0.19
	CO820	Connected member	-20.45	-0.02	0.65	-0.84	0.02
52	CO821	Main member	12.12	-0.01	-1.81	-2.62	0.07
	CO821	Connected member	16.77	0.07	-0.52	1.13	0.23
52	CO821	Connected member	14.46	-0.06	0.68	-0.65	-0.18
	CO821	Connected member	0.96	0.13	-0.08	-0.1	0.18
52	CO821	Connected member	1.62	-0.01	0.63	-0.74	0.02
	CO822	Main member	-33.89	-0.24	-0.32	0.32	-0.07
52	CO822	Connected member	1.5	-0.51	1.22	-1.45	-0.72
	CO822	Connected member	8.63	-0.15	0.79	-0.78	0.31
52	CO822	Connected member	-8.25	-0.38	0.06	0.03	-0.49
	CO822	Connected member	-30	-0.23	0.48	-0.39	0.03
52	CO823	Main member	-7.34	-0.23	-0.26	0.67	-0.09
	CO823	Connected member	5.78	-0.52	1.19	-1.38	-0.73
52	CO823	Connected member	7.55	-0.14	0.54	-0.34	0.33
	CO823	Connected member	-2.34	-0.38	0.12	-0.06	-0.51
52	CO823	Connected member	-8.47	-0.22	0.45	-0.32	0.02
	CO824	Main member	-7.02	-0.23	-0.26	0.68	-0.07
52	CO824	Connected member	5.76	-0.52	1.19	-1.38	-0.72
	CO824	Connected member	7.42	-0.15	0.54	-0.33	0.32
52	CO824	Connected member	-2.28	-0.38	0.12	-0.05	-0.5
	CO824	Connected member	-8.12	-0.22	0.45	-0.32	0.03
52	CO825	Main member	17.99	-0.22	-0.2	1.04	-0.07
	CO825	Connected member	8.28	-0.52	1.18	-1.32	-0.74
52	CO825	Connected member	4.41	-0.15	0.29	0.13	0.32
	CO825	Connected member	3.36	-0.39	0.2	-0.16	-0.51
52	CO825	Connected member	13.33	-0.21	0.43	-0.25	0.05
	CO826	Main member	15.89	-0.19	0.5	2.65	0.02
52	CO826	Connected member	11.23	-0.36	1.91	-2.37	-0.39
	CO826	Connected member	8.75	-0.18	0.19	0.4	0.12
52	CO826	Connected member	1.57	-0.19	0.26	-0.1	-0.23
	CO826	Connected member	10.79	-0.19	0.35	-0.02	0.04
52	CO827	Main member	-0.59	-0.01	-1.86	-2.9	0.08
	CO827	Connected member	9.85	0.07	-0.51	1.1	0.23
52	CO827	Connected member	10.64	-0.07	0.8	-0.93	-0.19
	CO827	Connected member	0.66	0.14	-0.09	-0.09	0.19
52	CO827	Connected member	-8	-0.01	0.63	-0.79	0.02
	CO828	Main member	-2.2	-0.01	-1.84	-2.79	0.07
52	CO828	Connected member	19.38	0.07	-0.49	1.08	0.24
	CO828	Connected member	19.97	-0.07	0.84	-0.91	-0.19
52	CO828	Connected member	-4.14	0.14	-0.14	-0.01	0.19
	CO828	Connected member	-11.52	-0.02	0.65	-0.79	0.01
52	CO829	Main member	10.19	-0.02	-2.32	-3.77	0.12
	CO829	Connected member	20.93	0.12	-1.05	1.9	0.39
52	CO829	Connected member	19.93	-0.11	0.81	-0.92	-0.3
	CO829	Connected member	0.44	0.23	-0.17	-0.07	0.31
52	CO829	Connected member	-3.75	-0.03	0.68	-0.88	0.02
	CO830	Main member	53.79	-0.02	-2.17	-3	0.11
52	CO830	Connected member	27.86	0.11	-1.08	2.01	0.37
	CO830	Connected member	17.16	-0.1	0.36	-0.05	-0.29
52	CO830	Connected member	9.11	0.22	-0.05	-0.21	0.3
	CO830	Connected member	33.01	-0.02	0.63	-0.72	0.02
52	CO831	Main member	-22.81	-0.4	0.28	1.84	-0.12
	CO831	Connected member	2.47	-0.86	1.81	-2.28	-1.21
52	CO831	Connected member	7.47	-0.25	0.55	-0.29	0.54
	CO831	Connected member	-6.21	-0.63	0.17	-0.01	-0.82
52	CO831	Connected member	-19.65	-0.37	0.39	-0.14	0.05
	CO832	Main member	21.44	-0.36	0.38	2.41	-0.15
52	CO832	Connected member	9.6	-0.86	1.76	-2.15	-1.22
	CO832	Connected member	5.67	-0.23	0.14	0.45	0.55
52	CO832	Connected member	3.64	-0.64	0.28	-0.16	-0.85
	CO832	Connected member	16.23	-0.35	0.34	-0.03	0.04
52	CO833	Main member	21.97	-0.37	0.38	2.42	-0.12
	CO833	Connected member	9.56	-0.86	1.77	-2.15	-1.21
52	CO833	Connected member	5.45	-0.24	0.14	0.46	0.53
	CO833	Connected member	3.74	-0.63	0.28	-0.16	-0.83
52	CO833	Connected member	16.81	-0.35	0.34	-0.03	0.06
	CO834	Main member	63.63	-0.35	0.5	3.02	-0.11
52	CO834	Connected member	13.75	-0.86	1.75	-2.05	-1.22
	CO834	Connected member	0.43	-0.24	-0.27	1.21	0.53
52	CO834	Connected member	13.14	-0.65	0.41	-0.33	-0.86
	CO834	Connected member	52.57	-0.32	0.3	0.08	0.1
52	CO835	Main member	60.15	-0.3	1.66	5.67	0.02
	CO835	Connected member	18.68	-0.59	2.96	-3.79	-0.66
52	CO835	Connected member	7.67	-0.28	-0.44	1.66	0.2
	CO835	Connected member	10.16	-0.32	0.51	-0.25	-0.39



::LAV/team::

Page: 280/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO835	Connected member	48.33	-0.29	0.16	0.47	0.07
	CO836	Main member	32.63	-0.02	-2.26	-3.49	0.12
	CO836	Connected member	16.35	0.11	-1.08	1.97	0.38
	CO836	Connected member	10.8	-0.1	0.56	-0.52	-0.3
	CO836	Connected member	8.62	0.22	-0.07	-0.2	0.3
52	CO836	Connected member	16.99	-0.02	0.64	-0.8	0.03
	CO837	Main member	29.94	-0.02	-2.23	-3.31	0.11
	CO837	Connected member	32.21	0.12	-1.05	1.93	0.38
	CO837	Connected member	26.35	-0.1	0.63	-0.49	-0.3
	CO837	Connected member	0.62	0.23	-0.16	-0.08	0.31
52	CO837	Connected member	11.12	-0.03	0.68	-0.81	0.02
	CO838	Main member	-6.32	-0.02	-2.36	-4.03	0.12
	CO838	Connected member	19.81	0.12	-1.03	1.84	0.39
	CO838	Connected member	22.61	-0.11	0.99	-1.25	-0.3
	CO838	Connected member	-3.34	0.23	-0.22	0	0.32
52	CO838	Connected member	-18.29	-0.03	0.7	-0.95	0.02
	CO839	Main member	37.28	-0.02	-2.22	-3.26	0.12
	CO839	Connected member	26.74	0.11	-1.06	1.96	0.37
	CO839	Connected member	19.83	-0.1	0.54	-0.38	-0.29
	CO839	Connected member	5.34	0.22	-0.11	-0.14	0.3
52	CO839	Connected member	18.48	-0.02	0.66	-0.78	0.03
	CO840	Main member	-39.36	-0.4	0.25	1.61	-0.12
	CO840	Connected member	1.33	-0.86	1.83	-2.34	-1.21
	CO840	Connected member	10.13	-0.25	0.72	-0.6	0.54
	CO840	Connected member	-9.99	-0.63	0.11	0.07	-0.82
52	CO840	Connected member	-34.2	-0.38	0.41	-0.2	0.04
	CO841	Main member	4.9	-0.37	0.34	2.18	-0.15
	CO841	Connected member	8.46	-0.86	1.78	-2.21	-1.23
	CO841	Connected member	8.33	-0.23	0.31	0.13	0.56
	CO841	Connected member	-0.15	-0.64	0.22	-0.08	-0.85
52	CO841	Connected member	1.69	-0.36	0.37	-0.09	0.04
	CO842	Main member	5.43	-0.38	0.34	2.19	-0.13
	CO842	Connected member	8.42	-0.86	1.79	-2.22	-1.21
	CO842	Connected member	8.11	-0.24	0.31	0.15	0.54
	CO842	Connected member	-0.05	-0.64	0.22	-0.08	-0.83
52	CO842	Connected member	2.27	-0.36	0.37	-0.09	0.05
	CO843	Main member	47.1	-0.35	0.46	2.78	-0.11
	CO843	Connected member	12.61	-0.86	1.77	-2.11	-1.23
	CO843	Connected member	3.09	-0.24	-0.1	0.9	0.54
	CO843	Connected member	9.36	-0.65	0.35	-0.25	-0.86
52	CO843	Connected member	38.03	-0.33	0.33	0.02	0.09
	CO844	Main member	43.61	-0.31	1.61	5.45	0.02
	CO844	Connected member	17.55	-0.59	2.98	-3.85	-0.66
	CO844	Connected member	10.33	-0.28	-0.27	1.36	0.21
	CO844	Connected member	6.37	-0.32	0.45	-0.17	-0.39
52	CO844	Connected member	33.79	-0.3	0.19	0.41	0.07
	CO845	Main member	16.11	-0.02	-2.31	-3.75	0.12
	CO845	Connected member	15.23	0.11	-1.06	1.91	0.38
	CO845	Connected member	13.47	-0.11	0.74	-0.84	-0.3
	CO845	Connected member	4.84	0.22	-0.13	-0.13	0.31
52	CO845	Connected member	2.46	-0.02	0.67	-0.87	0.03
	CO846	Main member	13.43	-0.02	-2.28	-3.57	0.12
	CO846	Connected member	31.1	0.12	-1.03	1.88	0.38
	CO846	Connected member	29.03	-0.11	0.81	-0.82	-0.3
	CO846	Connected member	-3.16	0.23	-0.21	0	0.31
52	CO846	Connected member	-3.41	-0.03	0.7	-0.88	0.02
	CO847	Main member	-10.82	-0.02	-2.37	-4.1	0.12
	CO847	Connected member	19.39	0.12	-1.02	1.83	0.39
	CO847	Connected member	23.18	-0.11	1.04	-1.33	-0.3
	CO847	Connected member	-4.37	0.23	-0.24	0.02	0.32
52	CO847	Connected member	-22.15	-0.03	0.71	-0.97	0.02
	CO848	Main member	32.78	-0.02	-2.23	-3.34	0.12
	CO848	Connected member	26.33	0.11	-1.06	1.95	0.37
	CO848	Connected member	20.4	-0.1	0.59	-0.46	-0.29
	CO848	Connected member	4.3	0.22	-0.13	-0.12	0.3
52	CO848	Connected member	14.62	-0.02	0.67	-0.8	0.03
	CO849	Main member	-43.86	-0.41	0.24	1.55	-0.12
	CO849	Connected member	0.9	-0.86	1.84	-2.36	-1.21
	CO849	Connected member	10.7	-0.25	0.77	-0.68	0.54
	CO849	Connected member	-11.03	-0.63	0.1	0.09	-0.82
52	CO849	Connected member	-38.06	-0.38	0.42	-0.22	0.04
	CO850	Main member	0.4	-0.37	0.33	2.11	-0.15
	CO850	Connected member	8.04	-0.86	1.79	-2.23	-1.23
	CO850	Connected member	8.9	-0.23	0.36	0.05	0.56
	CO850	Connected member	-1.18	-0.64	0.21	-0.06	-0.85
52	CO850	Connected member	-2.17	-0.36	0.37	-0.1	0.03
	CO851	Main member	0.93	-0.38	0.33	2.13	-0.13
	CO851	Connected member	8	-0.86	1.8	-2.23	-1.21
	CO851	Connected member	8.68	-0.24	0.36	0.06	0.54
	CO851	Connected member	-1.08	-0.64	0.21	-0.06	-0.83
52	CO851	Connected member	-1.59	-0.36	0.38	-0.11	0.05
	CO852	Main member	42.6	-0.36	0.45	2.72	-0.11
	CO852	Connected member	12.19	-0.86	1.77	-2.13	-1.23
	CO852	Connected member	3.66	-0.24	-0.05	0.82	0.54
	CO852	Connected member	8.32	-0.65	0.33	-0.23	-0.86
52	CO852	Connected member	34.17	-0.33	0.34	0.01	0.09
	CO853	Main member	39.11	-0.31	1.6	5.39	0.02
	CO853	Connected member	17.13	-0.59	2.99	-3.87	-0.66
	CO853	Connected member	10.89	-0.28	-0.22	1.28	0.21
	CO853	Connected member	5.34	-0.32	0.44	-0.15	-0.39
52	CO853	Connected member	29.93	-0.3	0.2	0.39	0.06
	CO854	Main member	11.61	-0.02	-2.32	-3.82	0.12
	CO854	Connected member	14.81	0.11	-1.05	1.9	0.38
	CO854	Connected member	14.04	-0.11	0.79	-0.93	-0.3



::LAV/team::

Page: 281/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO854	Connected member	3.81	0.22	-0.14	-0.11	0.31
	CO854	Connected member	-1.4	-0.02	0.67	-0.89	0.03
	CO855	Main member	8.94	-0.02	-2.29	-3.64	0.12
52	CO855	Connected member	30.69	0.12	-1.03	1.86	0.38
	CO855	Connected member	29.6	-0.11	0.85	-0.9	-0.3
	CO855	Connected member	-4.19	0.23	-0.23	0.01	0.31
52	CO855	Connected member	-7.27	-0.03	0.71	-0.89	0.02
	CO856	Main member	5.7	-0.02	-2.33	-3.84	0.12
	CO856	Connected member	20.51	0.12	-1.04	1.88	0.39
52	CO856	Connected member	20.5	-0.11	0.86	-1.01	-0.3
	CO856	Connected member	-0.6	0.23	-0.18	-0.05	0.31
	CO856	Connected member	-7.61	-0.03	0.69	-0.9	0.02
52	CO857	Main member	49.29	-0.02	-2.18	-3.07	0.11
	CO857	Connected member	27.44	0.11	-1.08	2	0.37
	CO857	Connected member	17.73	-0.1	0.41	-0.14	-0.29
52	CO857	Connected member	8.08	0.22	-0.07	-0.2	0.3
	CO857	Connected member	29.15	-0.02	0.64	-0.73	0.02
	CO858	Main member	-27.32	-0.4	0.27	1.77	-0.12
52	CO858	Connected member	2.05	-0.86	1.81	-2.29	-1.21
	CO858	Connected member	8.04	-0.25	0.6	-0.37	0.54
	CO858	Connected member	-7.25	-0.63	0.16	0.01	-0.82
52	CO858	Connected member	-23.51	-0.38	0.39	-0.16	0.04
	CO859	Main member	16.93	-0.36	0.37	2.35	-0.15
	CO859	Connected member	9.18	-0.86	1.77	-2.16	-1.23
52	CO859	Connected member	6.24	-0.23	0.19	0.36	0.55
	CO859	Connected member	2.6	-0.64	0.27	-0.14	-0.85
	CO859	Connected member	12.37	-0.35	0.35	-0.04	0.04
52	CO860	Main member	17.47	-0.37	0.37	2.36	-0.12
	CO860	Connected member	9.14	-0.86	1.77	-2.17	-1.21
	CO860	Connected member	6.02	-0.24	0.19	0.37	0.54
52	CO860	Connected member	2.7	-0.63	0.27	-0.14	-0.83
	CO860	Connected member	12.95	-0.35	0.35	-0.05	0.06
	CO861	Main member	59.13	-0.35	0.49	2.96	-0.11
52	CO861	Connected member	13.33	-0.86	1.75	-2.06	-1.23
	CO861	Connected member	1	-0.24	-0.22	1.13	0.53
	CO861	Connected member	12.1	-0.65	0.39	-0.31	-0.86
52	CO861	Connected member	48.71	-0.32	0.31	0.07	0.09
	CO862	Main member	55.65	-0.3	1.64	5.61	0.02
	CO862	Connected member	18.26	-0.59	2.97	-3.8	-0.66
52	CO862	Connected member	8.23	-0.28	-0.39	1.58	0.2
	CO862	Connected member	9.12	-0.32	0.5	-0.23	-0.39
	CO862	Connected member	44.47	-0.29	0.17	0.45	0.07
52	CO863	Main member	28.13	-0.02	-2.28	-3.56	0.12
	CO863	Connected member	15.93	0.11	-1.07	1.95	0.38
	CO863	Connected member	11.37	-0.1	0.61	-0.6	-0.3
52	CO863	Connected member	7.59	0.22	-0.08	-0.18	0.3
	CO863	Connected member	13.14	-0.02	0.65	-0.82	0.03
	CO864	Main member	25.45	-0.02	-2.24	-3.38	0.11
52	CO864	Connected member	31.8	0.12	-1.05	1.92	0.38
	CO864	Connected member	26.92	-0.1	0.68	-0.58	-0.3
	CO864	Connected member	-0.41	0.23	-0.17	-0.06	0.31
52	CO864	Connected member	7.26	-0.03	0.69	-0.83	0.02
	CO865	Main member	-13.82	-0.02	-2.38	-4.15	0.12
	CO865	Connected member	19.11	0.12	-1.02	1.82	0.39
52	CO865	Connected member	23.56	-0.11	1.07	-1.39	-0.3
	CO865	Connected member	-5.06	0.23	-0.25	0.03	0.32
	CO865	Connected member	-24.72	-0.03	0.72	-0.98	0.02
52	CO866	Main member	29.79	-0.02	-2.24	-3.38	0.12
	CO866	Connected member	26.06	0.11	-1.06	1.94	0.37
	CO866	Connected member	20.78	-0.1	0.62	-0.52	-0.29
52	CO866	Connected member	3.62	0.22	-0.14	-0.11	0.3
	CO866	Connected member	12.05	-0.02	0.67	-0.82	0.03
	CO867	Main member	-46.86	-0.41	0.23	1.51	-0.12
52	CO867	Connected member	0.62	-0.86	1.84	-2.37	-1.21
	CO867	Connected member	11.08	-0.25	0.8	-0.74	0.55
	CO867	Connected member	-11.72	-0.63	0.09	0.11	-0.82
52	CO867	Connected member	-40.63	-0.39	0.42	-0.23	0.03
	CO868	Main member	-2.61	-0.37	0.32	2.07	-0.15
	CO868	Connected member	7.76	-0.86	1.79	-2.24	-1.23
52	CO868	Connected member	9.28	-0.23	0.39	0	0.56
	CO868	Connected member	-1.87	-0.64	0.2	-0.05	-0.85
	CO868	Connected member	-4.74	-0.36	0.38	-0.12	0.03
52	CO869	Main member	-2.07	-0.38	0.33	2.08	-0.13
	CO869	Connected member	7.72	-0.86	1.8	-2.24	-1.21
	CO869	Connected member	9.06	-0.24	0.39	0.01	0.54
52	CO869	Connected member	-1.77	-0.64	0.2	-0.05	-0.83
	CO869	Connected member	-4.16	-0.36	0.38	-0.12	0.05
	CO870	Main member	39.6	-0.36	0.44	2.68	-0.11
52	CO870	Connected member	11.91	-0.86	1.78	-2.14	-1.23
	CO870	Connected member	4.03	-0.24	-0.02	0.76	0.54
	CO870	Connected member	7.63	-0.65	0.32	-0.22	-0.86
52	CO870	Connected member	31.6	-0.33	0.34	-0.01	0.09
	CO871	Main member	36.11	-0.31	1.59	5.35	0.02
	CO871	Connected member	16.85	-0.59	2.99	-3.88	-0.66
52	CO871	Connected member	11.27	-0.28	-0.19	1.22	0.21
	CO871	Connected member	4.65	-0.32	0.43	-0.13	-0.39
	CO871	Connected member	27.36	-0.3	0.2	0.38	0.06
52	CO872	Main member	8.61	-0.02	-2.33	-3.87	0.12
	CO872	Connected member	14.54	0.11	-1.05	1.89	0.38
	CO872	Connected member	14.42	-0.11	0.82	-0.98	-0.3
52	CO872	Connected member	3.12	0.22	-0.15	-0.1	0.31
	CO872	Connected member	-3.97	-0.02	0.68	-0.9	0.03
	CO873	Main member	5.94	-0.02	-2.3	-3.69	0.12
52	CO873	Connected member	30.41	0.12	-1.02	1.85	0.38



::LAVteam::

Page: 282/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO873	Connected member	29.98	-0.11	0.88	-0.96	-0.3
	CO873	Connected member	-4.88	0.23	-0.24	0.03	0.31
	CO873	Connected member	-9.84	-0.03	0.72	-0.91	0.02
52	CO874	Main member	-11.98	-0.02	-2.37	-4.11	0.12
	CO874	Connected member	20.2	0.12	-1.02	1.82	0.39
	CO874	Connected member	24.21	-0.11	1.05	-1.35	-0.3
52	CO874	Connected member	-5.05	0.23	-0.25	0.03	0.32
	CO874	Connected member	-23.37	-0.03	0.72	-0.97	0.02
	CO875	Main member	31.62	-0.02	-2.23	-3.34	0.12
52	CO875	Connected member	27.14	0.11	-1.06	1.94	0.37
	CO875	Connected member	21.43	-0.1	0.6	-0.48	-0.29
	CO875	Connected member	3.63	0.22	-0.14	-0.11	0.3
52	CO875	Connected member	13.4	-0.02	0.67	-0.81	0.03
	CO876	Main member	-45.03	-0.41	0.24	1.55	-0.12
	CO876	Connected member	1.71	-0.86	1.84	-2.36	-1.21
52	CO876	Connected member	11.73	-0.25	0.78	-0.7	0.55
	CO876	Connected member	-11.7	-0.63	0.09	0.1	-0.82
	CO876	Connected member	-39.28	-0.39	0.42	-0.22	0.03
52	CO877	Main member	-0.77	-0.37	0.33	2.11	-0.15
	CO877	Connected member	8.85	-0.86	1.79	-2.23	-1.23
	CO877	Connected member	9.93	-0.23	0.37	0.04	0.56
52	CO877	Connected member	-1.85	-0.64	0.2	-0.05	-0.85
	CO877	Connected member	-3.39	-0.36	0.38	-0.11	0.03
	CO878	Main member	-0.24	-0.38	0.33	2.12	-0.13
52	CO878	Connected member	8.81	-0.86	1.8	-2.24	-1.21
	CO878	Connected member	9.71	-0.24	0.37	0.05	0.54
	CO878	Connected member	-1.76	-0.64	0.2	-0.05	-0.83
52	CO878	Connected member	-2.81	-0.36	0.38	-0.12	0.05
	CO879	Main member	41.43	-0.36	0.45	2.72	-0.11
	CO879	Connected member	13	-0.86	1.78	-2.13	-1.23
52	CO879	Connected member	4.68	-0.24	-0.04	0.8	0.54
	CO879	Connected member	7.65	-0.65	0.32	-0.22	-0.86
	CO879	Connected member	32.95	-0.33	0.34	0	0.08
52	CO880	Main member	37.94	-0.31	1.6	5.39	0.02
	CO880	Connected member	17.93	-0.59	3	-3.87	-0.66
	CO880	Connected member	11.92	-0.28	-0.21	1.26	0.21
52	CO880	Connected member	4.66	-0.32	0.43	-0.13	-0.39
	CO880	Connected member	28.71	-0.3	0.2	0.39	0.06
	CO881	Main member	10.45	-0.02	-2.32	-3.82	0.12
52	CO881	Connected member	15.62	0.11	-1.05	1.89	0.38
	CO881	Connected member	15.07	-0.11	0.8	-0.94	-0.3
	CO881	Connected member	3.14	0.22	-0.15	-0.1	0.31
52	CO881	Connected member	-2.62	-0.02	0.68	-0.89	0.03
	CO882	Main member	7.77	-0.02	-2.29	-3.65	0.12
	CO882	Connected member	31.5	0.12	-1.02	1.86	0.38
52	CO882	Connected member	30.63	-0.11	0.87	-0.92	-0.3
	CO882	Connected member	-4.86	0.23	-0.24	0.03	0.31
	CO882	Connected member	-8.49	-0.03	0.72	-0.9	0.02
52	CO883	Main member	-18.32	-0.02	-2.39	-4.22	0.12
	CO883	Connected member	18.7	0.12	-1.02	1.8	0.39
	CO883	Connected member	24.13	-0.11	1.12	-1.48	-0.3
52	CO883	Connected member	-6.1	0.23	-0.26	0.05	0.32
	CO883	Connected member	-28.57	-0.03	0.72	-1	0.02
	CO884	Main member	25.29	-0.02	-2.25	-3.45	0.12
52	CO884	Connected member	25.64	0.11	-1.05	1.92	0.37
	CO884	Connected member	21.35	-0.1	0.66	-0.61	-0.29
	CO884	Connected member	2.58	0.22	-0.15	-0.09	0.3
52	CO884	Connected member	8.2	-0.02	0.68	-0.83	0.03
	CO885	Main member	-51.37	-0.41	0.23	1.45	-0.12
	CO885	Connected member	0.2	-0.86	1.85	-2.39	-1.21
52	CO885	Connected member	11.65	-0.25	0.84	-0.82	0.55
	CO885	Connected member	-12.75	-0.63	0.07	0.13	-0.82
	CO885	Connected member	-44.49	-0.39	0.43	-0.25	0.03
52	CO886	Main member	-7.11	-0.38	0.31	2.01	-0.15
	CO886	Connected member	7.34	-0.86	1.8	-2.25	-1.23
	CO886	Connected member	9.85	-0.23	0.44	-0.08	0.56
52	CO886	Connected member	-2.9	-0.64	0.18	-0.03	-0.85
	CO886	Connected member	-8.6	-0.36	0.38	-0.13	0.03
	CO887	Main member	-6.58	-0.38	0.32	2.02	-0.13
52	CO887	Connected member	7.3	-0.86	1.81	-2.26	-1.22
	CO887	Connected member	9.62	-0.24	0.43	-0.07	0.55
	CO887	Connected member	-2.81	-0.64	0.18	-0.03	-0.83
52	CO887	Connected member	-8.02	-0.36	0.39	-0.14	0.05
	CO888	Main member	35.09	-0.36	0.43	2.62	-0.11
	CO888	Connected member	11.49	-0.86	1.78	-2.15	-1.23
52	CO888	Connected member	4.6	-0.24	0.02	0.68	0.54
	CO888	Connected member	6.6	-0.65	0.31	-0.2	-0.86
	CO888	Connected member	27.74	-0.34	0.35	-0.02	0.08
52	CO889	Main member	31.61	-0.31	1.58	5.29	0.02
	CO889	Connected member	16.43	-0.59	3	-3.9	-0.66
	CO889	Connected member	11.84	-0.28	-0.15	1.14	0.21
52	CO889	Connected member	3.61	-0.32	0.41	-0.11	-0.39
	CO889	Connected member	23.5	-0.3	0.21	0.36	0.06
	CO890	Main member	4.12	-0.02	-2.34	-3.94	0.12
52	CO890	Connected member	14.12	0.11	-1.04	1.88	0.38
	CO890	Connected member	14.99	-0.11	0.87	-1.07	-0.3
	CO890	Connected member	2.09	0.22	-0.16	-0.08	0.31
52	CO890	Connected member	-7.83	-0.02	0.69	-0.92	0.03
	CO891	Main member	1.44	-0.02	-2.31	-3.76	0.12
	CO891	Connected member	29.99	0.12	-1.02	1.84	0.38
52	CO891	Connected member	30.55	-0.11	0.93	-1.04	-0.3
	CO891	Connected member	-5.91	0.23	-0.25	0.05	0.31
	CO891	Connected member	-13.7	-0.03	0.72	-0.92	0.02
52	CO892	Main member	-16.48	-0.02	-2.39	-4.18	0.12



::LAV/team::

Page: 283/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO892	Connected member	19.79	0.12	-1.02	1.81	0.39
	CO892	Connected member	24.78	-0.11	1.1	-1.44	-0.3
	CO892	Connected member	-6.08	0.23	-0.26	0.05	0.32
52	CO892	Connected member	-27.22	-0.03	0.72	-0.99	0.02
	CO893	Main member	27.12	-0.02	-2.24	-3.41	0.12
	CO893	Connected member	26.73	0.11	-1.05	1.93	0.37
52	CO893	Connected member	22	-0.1	0.65	-0.57	-0.29
	CO893	Connected member	2.6	0.22	-0.15	-0.09	0.3
	CO893	Connected member	9.55	-0.02	0.68	-0.83	0.03
52	CO894	Main member	-49.53	-0.41	0.23	1.49	-0.12
	CO894	Connected member	1.29	-0.86	1.85	-2.38	-1.21
	CO894	Connected member	12.3	-0.25	0.83	-0.78	0.55
52	CO894	Connected member	-12.74	-0.63	0.07	0.13	-0.82
	CO894	Connected member	-43.14	-0.39	0.43	-0.24	0.03
	CO895	Main member	-5.27	-0.38	0.32	2.05	-0.15
52	CO895	Connected member	8.43	-0.86	1.8	-2.25	-1.23
	CO895	Connected member	10.5	-0.23	0.42	-0.05	0.56
	CO895	Connected member	-2.89	-0.64	0.18	-0.03	-0.85
52	CO895	Connected member	-7.25	-0.36	0.38	-0.13	0.03
	CO896	Main member	-4.74	-0.38	0.32	2.06	-0.13
	CO896	Connected member	8.39	-0.86	1.81	-2.26	-1.22
52	CO896	Connected member	10.27	-0.24	0.42	-0.04	0.55
	CO896	Connected member	-2.79	-0.64	0.18	-0.03	-0.83
	CO896	Connected member	-6.67	-0.36	0.39	-0.13	0.05
52	CO897	Main member	36.93	-0.36	0.43	2.66	-0.11
	CO897	Connected member	12.58	-0.86	1.78	-2.15	-1.23
	CO897	Connected member	5.25	-0.24	0.01	0.72	0.54
52	CO897	Connected member	6.61	-0.65	0.31	-0.2	-0.86
	CO897	Connected member	29.09	-0.34	0.35	-0.02	0.08
	CO898	Main member	33.44	-0.31	1.59	5.33	0.02
52	CO898	Connected member	17.51	-0.59	3	-3.89	-0.66
	CO898	Connected member	12.49	-0.28	-0.16	1.18	0.21
	CO898	Connected member	3.63	-0.32	0.41	-0.11	-0.39
52	CO898	Connected member	24.85	-0.3	0.21	0.37	0.06
	CO899	Main member	5.95	-0.02	-2.34	-3.9	0.12
	CO899	Connected member	15.21	0.11	-1.04	1.88	0.38
52	CO899	Connected member	15.64	-0.11	0.85	-1.03	-0.3
	CO899	Connected member	2.11	0.22	-0.16	-0.08	0.31
	CO899	Connected member	-6.47	-0.02	0.69	-0.91	0.03
52	CO900	Main member	3.28	-0.02	-2.3	-3.72	0.12
	CO900	Connected member	31.08	0.12	-1.02	1.84	0.38
	CO900	Connected member	31.2	-0.11	0.91	-1	-0.3
52	CO900	Connected member	-5.89	0.23	-0.25	0.05	0.31
	CO900	Connected member	-12.34	-0.03	0.72	-0.92	0.02
	CO901	Main member	-1.8	-0.02	-2.35	-3.96	0.12
52	CO901	Connected member	19.82	0.12	-1.04	1.86	0.39
	CO901	Connected member	21.45	-0.11	0.94	-1.15	-0.3
	CO901	Connected member	-2.32	0.23	-0.21	-0.02	0.32
52	CO901	Connected member	-14.04	-0.03	0.7	-0.93	0.02
	CO902	Main member	41.8	-0.02	-2.2	-3.19	0.12
	CO902	Connected member	26.75	0.11	-1.07	1.98	0.37
52	CO902	Connected member	18.68	-0.1	0.49	-0.28	-0.29
	CO902	Connected member	6.36	0.22	-0.09	-0.16	0.3
	CO902	Connected member	22.73	-0.02	0.65	-0.77	0.03
52	CO903	Main member	-34.83	-0.4	0.26	1.67	-0.12
	CO903	Connected member	1.34	-0.86	1.82	-2.32	-1.21
	CO903	Connected member	8.98	-0.25	0.67	-0.51	0.54
52	CO903	Connected member	-8.97	-0.63	0.13	0.05	-0.82
	CO903	Connected member	-29.95	-0.38	0.4	-0.19	0.04
	CO904	Main member	9.43	-0.37	0.35	2.24	-0.15
52	CO904	Connected member	8.48	-0.86	1.78	-2.19	-1.23
	CO904	Connected member	7.18	-0.23	0.26	0.23	0.55
	CO904	Connected member	0.88	-0.64	0.24	-0.1	-0.85
52	CO904	Connected member	5.94	-0.36	0.36	-0.07	0.04
	CO905	Main member	9.96	-0.37	0.35	2.25	-0.12
	CO905	Connected member	8.44	-0.86	1.78	-2.2	-1.21
52	CO905	Connected member	6.96	-0.24	0.26	0.24	0.54
	CO905	Connected member	0.98	-0.64	0.24	-0.1	-0.83
	CO905	Connected member	6.52	-0.36	0.36	-0.08	0.06
52	CO906	Main member	51.63	-0.35	0.47	2.85	-0.11
	CO906	Connected member	12.63	-0.86	1.76	-2.09	-1.23
	CO906	Connected member	1.94	-0.24	-0.15	0.99	0.53
52	CO906	Connected member	10.38	-0.65	0.37	-0.27	-0.86
	CO906	Connected member	42.28	-0.33	0.32	0.04	0.09
	CO907	Main member	48.14	-0.3	1.62	5.51	0.02
52	CO907	Connected member	17.56	-0.59	2.98	-3.83	-0.66
	CO907	Connected member	9.18	-0.28	-0.32	1.45	0.21
	CO907	Connected member	7.4	-0.32	0.47	-0.19	-0.39
52	CO907	Connected member	38.04	-0.29	0.18	0.42	0.07
	CO908	Main member	20.63	-0.02	-2.3	-3.68	0.12
	CO908	Connected member	15.24	0.11	-1.06	1.93	0.38
52	CO908	Connected member	12.32	-0.11	0.69	-0.74	-0.3
	CO908	Connected member	5.87	0.22	-0.11	-0.15	0.3
	CO908	Connected member	6.71	-0.02	0.66	-0.85	0.03
52	CO909	Main member	17.95	-0.02	-2.26	-3.5	0.12
	CO909	Connected member	31.11	0.12	-1.04	1.89	0.38
	CO909	Connected member	27.87	-0.11	0.75	-0.72	-0.3
52	CO909	Connected member	-2.13	0.23	-0.2	-0.03	0.31
	CO909	Connected member	0.83	-0.03	0.7	-0.86	0.02
	CO910	Main member	0.04	-0.02	-2.34	-3.92	0.12
52	CO910	Connected member	20.91	0.12	-1.04	1.86	0.39
	CO910	Connected member	22.1	-0.11	0.92	-1.11	-0.3
	CO910	Connected member	-2.3	0.23	-0.21	-0.02	0.32
	CO910	Connected member	-12.69	-0.03	0.7	-0.92	0.02



::LAV/team::

Page: 284/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO911	Main member	43.63	-0.02	-2.19	-3.15	0.12
	CO911	Connected member	27.84	0.11	-1.07	1.98	0.37
	CO911	Connected member	19.33	-0.1	0.47	-0.24	-0.29
52	CO911	Connected member	6.37	0.22	-0.09	-0.16	0.3
	CO911	Connected member	24.08	-0.02	0.65	-0.76	0.03
	CO912	Main member	-32.99	-0.4	0.27	1.71	-0.12
52	CO912	Connected member	2.44	-0.86	1.82	-2.32	-1.21
	CO912	Connected member	9.63	-0.25	0.65	-0.47	0.54
	CO912	Connected member	-8.95	-0.63	0.13	0.05	-0.82
52	CO912	Connected member	-28.59	-0.38	0.4	-0.18	0.04
	CO913	Main member	11.26	-0.37	0.36	2.28	-0.15
	CO913	Connected member	9.57	-0.86	1.78	-2.19	-1.23
52	CO913	Connected member	7.83	-0.23	0.25	0.27	0.55
	CO913	Connected member	0.89	-0.64	0.24	-0.11	-0.85
	CO913	Connected member	7.29	-0.35	0.36	-0.06	0.04
52	CO914	Main member	11.8	-0.37	0.36	2.29	-0.13
	CO914	Connected member	9.53	-0.86	1.78	-2.19	-1.21
	CO914	Connected member	7.61	-0.24	0.25	0.28	0.54
52	CO914	Connected member	0.99	-0.64	0.24	-0.1	-0.83
	CO914	Connected member	7.87	-0.35	0.36	-0.07	0.06
52	CO915	Main member	53.46	-0.35	0.48	2.89	-0.11
	CO915	Connected member	13.72	-0.86	1.76	-2.09	-1.23
	CO915	Connected member	2.59	-0.24	-0.16	1.03	0.53
52	CO915	Connected member	10.4	-0.65	0.37	-0.27	-0.86
	CO915	Connected member	43.63	-0.33	0.32	0.05	0.09
	CO916	Main member	49.98	-0.3	1.63	5.55	0.02
52	CO916	Connected member	18.65	-0.59	2.98	-3.83	-0.66
	CO916	Connected member	9.83	-0.28	-0.33	1.49	0.21
	CO916	Connected member	7.41	-0.32	0.47	-0.19	-0.39
52	CO916	Connected member	39.39	-0.29	0.18	0.43	0.07
	CO917	Main member	22.47	-0.02	-2.29	-3.63	0.12
	CO917	Connected member	16.33	0.11	-1.06	1.93	0.38
52	CO917	Connected member	12.97	-0.1	0.67	-0.71	-0.3
	CO917	Connected member	5.88	0.22	-0.11	-0.15	0.3
	CO917	Connected member	8.06	-0.02	0.66	-0.84	0.03
52	CO918	Main member	19.79	-0.02	-2.25	-3.46	0.12
	CO918	Connected member	32.2	0.12	-1.04	1.9	0.38
	CO918	Connected member	28.52	-0.11	0.74	-0.68	-0.3
52	CO918	Connected member	-2.12	0.23	-0.2	-0.03	0.31
	CO918	Connected member	2.18	-0.03	0.7	-0.85	0.02
	CO919	Main member	2.7	-0.02	-2.34	-3.89	0.12
52	CO919	Connected member	20.23	0.12	-1.04	1.87	0.39
	CO919	Connected member	20.88	-0.11	0.89	-1.07	-0.3
	CO919	Connected member	-1.29	0.23	-0.19	-0.04	0.32
52	CO919	Connected member	-10.18	-0.03	0.69	-0.91	0.02
	CO920	Main member	46.3	-0.02	-2.19	-3.12	0.11
	CO920	Connected member	27.17	0.11	-1.08	1.99	0.37
52	CO920	Connected member	18.11	-0.1	0.44	-0.2	-0.29
	CO920	Connected member	7.39	0.22	-0.08	-0.18	0.3
	CO920	Connected member	26.58	-0.02	0.64	-0.75	0.03
52	CO921	Main member	-30.32	-0.4	0.27	1.73	-0.12
	CO921	Connected member	1.77	-0.86	1.82	-2.3	-1.21
	CO921	Connected member	8.41	-0.25	0.63	-0.43	0.54
52	CO921	Connected member	-7.94	-0.63	0.15	0.03	-0.82
	CO921	Connected member	-26.09	-0.38	0.4	-0.17	0.04
	CO922	Main member	13.93	-0.36	0.36	2.3	-0.15
52	CO922	Connected member	8.9	-0.86	1.77	-2.17	-1.23
	CO922	Connected member	6.62	-0.23	0.22	0.31	0.55
	CO922	Connected member	1.91	-0.64	0.26	-0.12	-0.85
52	CO922	Connected member	9.8	-0.35	0.35	-0.05	0.04
	CO923	Main member	14.46	-0.37	0.37	2.31	-0.12
	CO923	Connected member	8.86	-0.86	1.78	-2.18	-1.21
52	CO923	Connected member	6.39	-0.24	0.22	0.32	0.54
	CO923	Connected member	2.01	-0.63	0.26	-0.12	-0.83
	CO923	Connected member	10.38	-0.35	0.36	-0.06	0.06
52	CO924	Main member	56.13	-0.35	0.48	2.91	-0.11
	CO924	Connected member	13.05	-0.86	1.76	-2.07	-1.23
	CO924	Connected member	1.37	-0.24	-0.19	1.08	0.53
52	CO924	Connected member	11.41	-0.65	0.38	-0.29	-0.86
	CO924	Connected member	46.14	-0.33	0.31	0.06	0.09
	CO925	Main member	52.65	-0.3	1.64	5.57	0.02
52	CO925	Connected member	17.98	-0.59	2.97	-3.81	-0.66
	CO925	Connected member	8.61	-0.28	-0.36	1.53	0.2
	CO925	Connected member	8.43	-0.32	0.49	-0.21	-0.39
52	CO925	Connected member	41.9	-0.29	0.17	0.44	0.07
	CO926	Main member	25.13	-0.02	-2.28	-3.61	0.12
	CO926	Connected member	15.65	0.11	-1.07	1.95	0.38
52	CO926	Connected member	11.75	-0.1	0.64	-0.66	-0.3
	CO926	Connected member	6.9	0.22	-0.09	-0.17	0.3
	CO926	Connected member	10.57	-0.02	0.65	-0.83	0.03
52	CO927	Main member	22.45	-0.02	-2.25	-3.43	0.11
	CO927	Connected member	31.52	0.12	-1.04	1.91	0.38
	CO927	Connected member	27.3	-0.11	0.71	-0.63	-0.3
52	CO927	Connected member	-1.1	0.23	-0.18	-0.05	0.31
	CO927	Connected member	4.69	-0.03	0.69	-0.84	0.02
	CO928	Main member	4.53	-0.02	-2.33	-3.85	0.12
52	CO928	Connected member	21.32	0.12	-1.04	1.88	0.39
	CO928	Connected member	21.53	-0.11	0.88	-1.03	-0.3
	CO928	Connected member	-1.27	0.23	-0.19	-0.04	0.32
52	CO928	Connected member	-8.83	-0.03	0.69	-0.91	0.02
	CO929	Main member	48.13	-0.02	-2.18	-3.08	0.11
	CO929	Connected member	28.25	0.11	-1.08	1.99	0.37
	CO929	Connected member	18.76	-0.1	0.42	-0.16	-0.29
	CO929	Connected member	7.41	0.22	-0.08	-0.18	0.3



::LAV/team::

Page: 285/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO929	Connected member	27.93	-0.02	0.64	-0.74	0.03
	CO930	Main member	-28.49	-0.4	0.28	1.77	-0.12
	CO930	Connected member	2.86	-0.86	1.82	-2.3	-1.21
	CO930	Connected member	9.07	-0.25	0.61	-0.39	0.54
	CO930	Connected member	-7.92	-0.63	0.15	0.03	-0.82
52	CO930	Connected member	-24.73	-0.38	0.4	-0.16	0.04
	CO931	Main member	15.77	-0.36	0.37	2.34	-0.15
	CO931	Connected member	9.99	-0.86	1.77	-2.17	-1.23
	CO931	Connected member	7.27	-0.23	0.2	0.35	0.55
	CO931	Connected member	1.93	-0.64	0.26	-0.13	-0.85
52	CO931	Connected member	11.15	-0.35	0.35	-0.05	0.04
	CO932	Main member	16.3	-0.37	0.37	2.36	-0.13
	CO932	Connected member	9.95	-0.86	1.78	-2.18	-1.21
	CO932	Connected member	7.04	-0.24	0.2	0.36	0.54
	CO932	Connected member	2.03	-0.63	0.26	-0.12	-0.83
52	CO932	Connected member	11.73	-0.35	0.36	-0.06	0.06
	CO933	Main member	57.96	-0.35	0.49	2.96	-0.11
	CO933	Connected member	14.13	-0.86	1.76	-2.07	-1.23
	CO933	Connected member	2.02	-0.24	-0.21	1.12	0.53
	CO933	Connected member	11.43	-0.65	0.38	-0.29	-0.86
52	CO933	Connected member	47.49	-0.33	0.31	0.06	0.09
	CO934	Main member	54.48	-0.3	1.64	5.61	0.02
	CO934	Connected member	19.07	-0.59	2.97	-3.81	-0.66
	CO934	Connected member	9.26	-0.28	-0.38	1.57	0.2
	CO934	Connected member	8.45	-0.32	0.49	-0.21	-0.39
52	CO934	Connected member	43.25	-0.29	0.17	0.45	0.07
	CO935	Main member	26.97	-0.02	-2.28	-3.56	0.12
	CO935	Connected member	16.74	0.11	-1.07	1.95	0.38
	CO935	Connected member	12.4	-0.1	0.63	-0.62	-0.3
	CO935	Connected member	6.91	0.22	-0.09	-0.17	0.3
52	CO935	Connected member	11.92	-0.02	0.65	-0.83	0.03
	CO936	Main member	24.28	-0.02	-2.24	-3.39	0.11
	CO936	Connected member	32.61	0.12	-1.04	1.91	0.38
	CO936	Connected member	27.95	-0.1	0.69	-0.59	-0.3
	CO936	Connected member	-1.09	0.23	-0.18	-0.05	0.31
52	CO936	Connected member	6.04	-0.03	0.69	-0.83	0.02
	CO937	Main member	-22.15	0	-1.18	-1.63	0
	CO937	Connected member	-1.89	0	0.29	-0.11	0.02
	CO937	Connected member	2.4	-0.01	0.84	-1.02	-0.02
	CO937	Connected member	-2.76	0.01	0.01	-0.07	0.01
52	CO937	Connected member	-20.12	0	0.56	-0.65	0.01
	CO938	Main member	-38.69	0	-1.22	-1.88	0.01
	CO938	Connected member	-3.03	0	0.31	-0.16	0.02
	CO938	Connected member	5.06	-0.01	1.01	-1.34	-0.02
	CO938	Connected member	-6.54	0.01	-0.05	0.01	0.01
52	CO938	Connected member	-34.67	0	0.58	-0.71	0.01
	CO939	Main member	-43.19	0	-1.23	-1.94	0.01
	CO939	Connected member	-3.45	0	0.31	-0.18	0.02
	CO939	Connected member	5.63	-0.01	1.06	-1.42	-0.02
	CO939	Connected member	-7.57	0.01	-0.07	0.03	0.01
52	CO939	Connected member	-38.53	0	0.59	-0.73	0.01
	CO940	Main member	-26.65	0	-1.19	-1.7	0.01
	CO940	Connected member	-2.31	0	0.29	-0.12	0.02
	CO940	Connected member	2.96	-0.01	0.89	-1.1	-0.02
	CO940	Connected member	-3.79	0.01	-0.01	-0.05	0.01
52	CO940	Connected member	-23.98	0	0.56	-0.67	0.01
	CO941	Main member	-25.15	0	-1.19	-1.68	0.01
	CO941	Connected member	-2.17	0	0.29	-0.12	0.02
	CO941	Connected member	2.78	-0.01	0.87	-1.08	-0.02
	CO941	Connected member	-3.45	0.01	0	-0.05	0.01
52	CO941	Connected member	-22.69	0	0.56	-0.66	0.01
	CO942	Main member	-24.41	0	-1.19	-1.66	0.01
	CO942	Connected member	-1.73	0	0.29	-0.11	0.02
	CO942	Connected member	3.04	-0.01	0.86	-1.06	-0.02
	CO942	Connected member	-3.44	0.01	0	-0.05	0.01
52	CO942	Connected member	-22.15	0	0.56	-0.66	0.01
	CO943	Main member	-41.69	0	-1.23	-1.92	0.01
	CO943	Connected member	-3.31	0	0.31	-0.17	0.02
	CO943	Connected member	5.44	-0.01	1.04	-1.39	-0.02
	CO943	Connected member	-7.23	0.01	-0.06	0.02	0.01
52	CO943	Connected member	-37.24	0	0.58	-0.72	0.01
	CO944	Main member	-40.96	0	-1.22	-1.9	0.01
	CO944	Connected member	-2.88	0	0.31	-0.17	0.02
	CO944	Connected member	5.7	-0.01	1.04	-1.38	-0.02
	CO944	Connected member	-7.22	0.01	-0.06	0.02	0.01
52	CO944	Connected member	-36.7	0	0.58	-0.72	0.01
	CO945	Main member	-46.2	0	-1.24	-1.98	0.01
	CO945	Connected member	-3.74	0	0.32	-0.19	0.02
	CO945	Connected member	6.01	-0.01	1.09	-1.48	-0.02
	CO945	Connected member	-8.26	0.01	-0.08	0.04	0.01
52	CO945	Connected member	-41.1	0	0.59	-0.74	0.01
	CO946	Main member	-45.46	0	-1.23	-1.97	0.01
	CO946	Connected member	-3.3	0	0.32	-0.19	0.02
	CO946	Connected member	6.27	-0.01	1.08	-1.46	-0.02
	CO946	Connected member	-8.26	0.01	-0.08	0.04	0.01
52	CO946	Connected member	-40.56	0	0.59	-0.74	0.01
	CO947	Main member	-29.65	0	-1.2	-1.74	0.01
	CO947	Connected member	-2.59	0	0.3	-0.13	0.02
	CO947	Connected member	3.34	-0.01	0.92	-1.16	-0.02
	CO947	Connected member	-4.48	0.01	-0.02	-0.03	0.01
52	CO947	Connected member	-26.55	0	0.57	-0.68	0.01
	CO948	Main member	-28.92	0	-1.2	-1.73	0.01
	CO948	Connected member	-2.15	0	0.3	-0.13	0.02
	CO948	Connected member	3.6	-0.01	0.91	-1.14	-0.02



::LAV/team::

Page: 286/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO948	Connected member	-4.47	0.01	-0.02	-0.03	0.01
	CO948	Connected member	-26.01	0	0.57	-0.68	0.01
	CO949	Main member	-15.67	-0.01	-1.41	-2.06	0.03
52	CO949	Connected member	2.68	0.03	0.02	0.3	0.09
	CO949	Connected member	5.91	-0.03	0.84	-1	-0.07
	CO949	Connected member	-2.12	0.05	-0.03	-0.07	0.07
52	CO949	Connected member	-16.84	-0.01	0.58	-0.7	0.01
	CO950	Main member	-6.94	0	-1.38	-1.92	0.03
	CO950	Connected member	4.08	0.03	0.01	0.32	0.09
52	CO950	Connected member	5.36	-0.03	0.75	-0.83	-0.07
	CO950	Connected member	-0.38	0.05	-0.01	-0.1	0.07
	CO950	Connected member	-9.48	-0.01	0.57	-0.67	0.01
52	CO951	Main member	-22.28	-0.08	-0.89	-0.94	-0.02
	CO951	Connected member	-1.01	-0.17	0.59	-0.54	-0.23
	CO951	Connected member	3.41	-0.06	0.78	-0.87	0.09
52	CO951	Connected member	-3.45	-0.12	0.04	-0.05	-0.16
	CO951	Connected member	-20.03	-0.08	0.52	-0.55	0.01
	CO952	Main member	-13.43	-0.08	-0.87	-0.82	-0.02
52	CO952	Connected member	0.41	-0.17	0.58	-0.51	-0.23
	CO952	Connected member	3.05	-0.05	0.7	-0.73	0.1
	CO952	Connected member	-1.48	-0.12	0.06	-0.08	-0.16
52	CO952	Connected member	-12.85	-0.07	0.51	-0.53	0.01
	CO953	Main member	-13.32	-0.08	-0.87	-0.82	-0.02
	CO953	Connected member	0.4	-0.17	0.58	-0.52	-0.23
52	CO953	Connected member	3.01	-0.06	0.7	-0.72	0.09
	CO953	Connected member	-1.46	-0.12	0.06	-0.08	-0.16
	CO953	Connected member	-12.73	-0.07	0.51	-0.53	0.01
52	CO954	Main member	-4.99	-0.08	-0.85	-0.69	-0.02
	CO954	Connected member	1.25	-0.17	0.58	-0.5	-0.24
	CO954	Connected member	2	-0.05	0.62	-0.57	0.1
52	CO954	Connected member	0.42	-0.12	0.08	-0.12	-0.16
	CO954	Connected member	-5.58	-0.07	0.51	-0.5	0.02
	CO955	Main member	-5.69	-0.07	-0.61	-0.15	0.01
52	CO955	Connected member	2.23	-0.12	0.82	-0.85	-0.12
	CO955	Connected member	3.45	-0.06	0.58	-0.48	0.03
	CO955	Connected member	-0.18	-0.06	0.11	-0.1	-0.07
52	CO955	Connected member	-6.43	-0.06	0.48	-0.42	0.02
	CO956	Main member	-11.18	-0.01	-1.4	-2.01	0.03
	CO956	Connected member	1.77	0.03	0.01	0.31	0.09
52	CO956	Connected member	4.08	-0.03	0.79	-0.92	-0.07
	CO956	Connected member	-0.48	0.05	-0.01	-0.1	0.07
	CO956	Connected member	-12.69	-0.01	0.57	-0.68	0.01
52	CO957	Main member	-11.71	0	-1.39	-1.98	0.03
	CO957	Connected member	4.95	0.03	0.02	0.3	0.09
	CO957	Connected member	7.19	-0.03	0.8	-0.92	-0.07
52	CO957	Connected member	-2.08	0.05	-0.03	-0.07	0.07
	CO957	Connected member	-13.86	-0.01	0.58	-0.68	0.01
	CO958	Main member	-32.21	-0.01	-1.45	-2.31	0.03
52	CO958	Connected member	1.54	0.03	0.04	0.24	0.09
	CO958	Connected member	8.57	-0.03	1.01	-1.32	-0.08
	CO958	Connected member	-5.9	0.05	-0.09	0.01	0.07
52	CO958	Connected member	-31.38	-0.01	0.6	-0.76	0.01
	CO959	Main member	-23.47	-0.01	-1.43	-2.17	0.03
	CO959	Connected member	2.94	0.02	0.03	0.26	0.09
52	CO959	Connected member	8.02	-0.03	0.92	-1.15	-0.07
	CO959	Connected member	-4.16	0.05	-0.06	-0.02	0.07
	CO959	Connected member	-24.02	-0.01	0.6	-0.73	0.01
52	CO960	Main member	-38.82	-0.08	-0.93	-1.18	-0.02
	CO960	Connected member	-2.16	-0.17	0.61	-0.6	-0.23
	CO960	Connected member	6.08	-0.06	0.95	-1.19	0.09
52	CO960	Connected member	-7.23	-0.12	-0.02	0.02	-0.16
	CO960	Connected member	-34.57	-0.08	0.55	-0.61	0.02
	CO961	Main member	-29.97	-0.08	-0.91	-1.06	-0.02
52	CO961	Connected member	-0.73	-0.17	0.6	-0.57	-0.23
	CO961	Connected member	5.72	-0.05	0.87	-1.04	0.1
	CO961	Connected member	-5.26	-0.12	0	-0.01	-0.16
52	CO961	Connected member	-27.4	-0.08	0.54	-0.59	0.01
	CO962	Main member	-29.86	-0.08	-0.91	-1.06	-0.02
	CO962	Connected member	-0.74	-0.17	0.6	-0.58	-0.23
52	CO962	Connected member	5.67	-0.06	0.87	-1.04	0.09
	CO962	Connected member	-5.24	-0.12	0	-0.01	-0.16
	CO962	Connected member	-27.28	-0.08	0.54	-0.59	0.02
52	CO963	Main member	-21.53	-0.08	-0.89	-0.93	-0.02
	CO963	Connected member	0.1	-0.17	0.6	-0.56	-0.24
	CO963	Connected member	4.67	-0.05	0.79	-0.89	0.1
52	CO963	Connected member	-3.36	-0.12	0.03	-0.04	-0.16
	CO963	Connected member	-20.13	-0.07	0.53	-0.56	0.02
	CO964	Main member	-22.23	-0.07	-0.65	-0.39	0.01
52	CO964	Connected member	1.09	-0.12	0.84	-0.91	-0.12
	CO964	Connected member	6.11	-0.07	0.75	-0.79	0.03
	CO964	Connected member	-3.96	-0.06	0.05	-0.02	-0.07
52	CO964	Connected member	-20.98	-0.07	0.5	-0.49	0.02
	CO965	Main member	-27.72	-0.01	-1.44	-2.26	0.03
	CO965	Connected member	0.63	0.03	0.03	0.25	0.09
52	CO965	Connected member	6.75	-0.03	0.96	-1.24	-0.07
	CO965	Connected member	-4.26	0.05	-0.07	-0.02	0.07
	CO965	Connected member	-27.23	-0.01	0.6	-0.75	0.01
52	CO966	Main member	-28.25	-0.01	-1.43	-2.22	0.03
	CO966	Connected member	3.81	0.03	0.04	0.24	0.09
	CO966	Connected member	9.86	-0.03	0.97	-1.24	-0.07
52	CO966	Connected member	-5.86	0.05	-0.08	0.01	0.07
	CO966	Connected member	-28.41	-0.01	0.6	-0.75	0.01
	CO967	Main member	-36.71	-0.01	-1.46	-2.38	0.03
52	CO967	Connected member	1.12	0.03	0.05	0.22	0.09



::LAVteam::

Page: 287/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO967	Connected member	9.14	-0.03	1.06	-1.4	-0.08
	CO967	Connected member	-6.93	0.06	-0.1	0.03	0.07
	CO967	Connected member	-35.25	-0.01	0.61	-0.78	0.01
52	CO968	Main member	-27.98	-0.01	-1.44	-2.23	0.03
	CO968	Connected member	2.52	0.02	0.04	0.25	0.09
	CO968	Connected member	8.59	-0.03	0.97	-1.23	-0.07
52	CO968	Connected member	-5.19	0.05	-0.08	0	0.07
	CO968	Connected member	-27.88	-0.01	0.6	-0.75	0.01
	CO969	Main member	-43.33	-0.08	-0.94	-1.24	-0.02
52	CO969	Connected member	-2.58	-0.17	0.62	-0.62	-0.23
	CO969	Connected member	6.64	-0.06	1	-1.27	0.09
	CO969	Connected member	-8.26	-0.12	-0.03	0.04	-0.16
52	CO969	Connected member	-38.43	-0.08	0.55	-0.63	0.02
	CO970	Main member	-34.48	-0.08	-0.92	-1.12	-0.02
	CO970	Connected member	-1.15	-0.17	0.61	-0.59	-0.23
52	CO970	Connected member	6.28	-0.05	0.92	-1.12	0.1
	CO970	Connected member	-6.29	-0.12	-0.01	0.01	-0.16
	CO970	Connected member	-31.26	-0.08	0.54	-0.6	0.01
52	CO971	Main member	-34.37	-0.08	-0.92	-1.12	-0.02
	CO971	Connected member	-1.16	-0.17	0.61	-0.59	-0.23
	CO971	Connected member	6.24	-0.06	0.92	-1.12	0.09
52	CO971	Connected member	-6.27	-0.12	-0.01	0.01	-0.16
	CO971	Connected member	-31.14	-0.08	0.54	-0.6	0.02
	CO972	Main member	-26.03	-0.08	-0.9	-1	-0.02
52	CO972	Connected member	-0.32	-0.17	0.6	-0.57	-0.24
	CO972	Connected member	5.23	-0.06	0.84	-0.97	0.1
	CO972	Connected member	-4.39	-0.12	0.01	-0.02	-0.16
52	CO972	Connected member	-23.99	-0.07	0.54	-0.58	0.02
	CO973	Main member	-26.73	-0.07	-0.66	-0.46	0.01
	CO973	Connected member	0.67	-0.12	0.85	-0.92	-0.12
52	CO973	Connected member	6.68	-0.07	0.8	-0.87	0.03
	CO973	Connected member	-4.99	-0.06	0.03	0	-0.07
	CO973	Connected member	-24.84	-0.07	0.51	-0.5	0.02
52	CO974	Main member	-32.22	-0.01	-1.45	-2.33	0.03
	CO974	Connected member	0.21	0.03	0.04	0.24	0.09
	CO974	Connected member	7.31	-0.03	1.01	-1.33	-0.07
52	CO974	Connected member	-5.29	0.05	-0.08	0	0.07
	CO974	Connected member	-31.09	-0.01	0.6	-0.76	0.01
	CO975	Main member	-32.75	-0.01	-1.44	-2.29	0.03
52	CO975	Connected member	3.39	0.03	0.05	0.23	0.09
	CO975	Connected member	10.43	-0.03	1.02	-1.32	-0.07
	CO975	Connected member	-6.89	0.05	-0.1	0.02	0.07
52	CO975	Connected member	-32.27	-0.01	0.61	-0.76	0.01
	CO976	Main member	-20.17	-0.01	-1.42	-2.13	0.03
	CO976	Connected member	2.26	0.03	0.03	0.28	0.09
52	CO976	Connected member	6.48	-0.03	0.88	-1.09	-0.07
	CO976	Connected member	-3.15	0.05	-0.04	-0.05	0.07
	CO976	Connected member	-20.7	-0.01	0.59	-0.71	0.01
52	CO977	Main member	-11.44	-0.01	-1.4	-1.99	0.03
	CO977	Connected member	3.66	0.03	0.02	0.31	0.09
	CO977	Connected member	5.93	-0.03	0.79	-0.92	-0.07
52	CO977	Connected member	-1.41	0.05	-0.02	-0.08	0.07
	CO977	Connected member	-13.34	-0.01	0.58	-0.68	0.01
	CO978	Main member	-26.78	-0.08	-0.9	-1	-0.02
52	CO978	Connected member	-1.44	-0.17	0.6	-0.56	-0.23
	CO978	Connected member	3.98	-0.06	0.83	-0.96	0.09
	CO978	Connected member	-4.48	-0.12	0.02	-0.04	-0.16
52	CO978	Connected member	-23.89	-0.08	0.53	-0.57	0.02
	CO979	Main member	-17.93	-0.08	-0.88	-0.88	-0.02
	CO979	Connected member	-0.01	-0.17	0.59	-0.53	-0.23
52	CO979	Connected member	3.62	-0.05	0.75	-0.81	0.1
	CO979	Connected member	-2.51	-0.12	0.04	-0.06	-0.16
	CO979	Connected member	-16.71	-0.08	0.52	-0.54	0.01
52	CO980	Main member	-17.83	-0.08	-0.88	-0.88	-0.02
	CO980	Connected member	-0.02	-0.17	0.59	-0.53	-0.23
	CO980	Connected member	3.58	-0.06	0.75	-0.81	0.09
52	CO980	Connected member	-2.49	-0.12	0.04	-0.06	-0.16
	CO980	Connected member	-16.59	-0.08	0.52	-0.54	0.02
	CO981	Main member	-9.49	-0.08	-0.86	-0.76	-0.02
52	CO981	Connected member	0.82	-0.17	0.58	-0.51	-0.24
	CO981	Connected member	2.57	-0.05	0.66	-0.65	0.1
	CO981	Connected member	-0.61	-0.12	0.07	-0.1	-0.16
52	CO981	Connected member	-9.44	-0.07	0.51	-0.52	0.02
	CO982	Main member	-10.19	-0.07	-0.63	-0.22	0.01
	CO982	Connected member	1.81	-0.12	0.83	-0.86	-0.12
52	CO982	Connected member	4.02	-0.06	0.63	-0.56	0.03
	CO982	Connected member	-1.21	-0.06	0.09	-0.08	-0.07
	CO982	Connected member	-10.29	-0.07	0.49	-0.44	0.02
52	CO983	Main member	-15.68	-0.01	-1.41	-2.08	0.03
	CO983	Connected member	1.35	0.03	0.02	0.3	0.09
	CO983	Connected member	4.65	-0.03	0.83	-1.01	-0.07
52	CO983	Connected member	-1.51	0.05	-0.02	-0.08	0.07
	CO983	Connected member	-16.55	-0.01	0.58	-0.7	0.01
	CO984	Main member	-16.22	-0.01	-1.4	-2.04	0.03
52	CO984	Connected member	4.53	0.03	0.03	0.29	0.09
	CO984	Connected member	7.76	-0.03	0.85	-1	-0.07
	CO984	Connected member	-3.11	0.05	-0.04	-0.05	0.07
52	CO984	Connected member	-17.72	-0.01	0.59	-0.7	0.01
	CO989	Main member	-22.15	0	-1.18	-1.63	0
	CO989	Connected member	-1.89	0	0.29	-0.11	0.02
52	CO989	Connected member	2.4	-0.01	0.84	-1.02	-0.02
	CO989	Connected member	-2.76	0.01	0.01	-0.07	0.01
	CO989	Connected member	-20.12	0	0.56	-0.65	0.01
52	CO990	Main member	-22.15	0	-1.18	-1.63	0



::LAV/team::

Page: 288/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
52	CO990	Connected member	-1.89	0	0.29	-0.11	0.02
	CO990	Connected member	2.4	-0.01	0.84	-1.02	-0.02
	CO990	Connected member	-2.76	0.01	0.01	-0.07	0.01
	CO990	Connected member	-20.12	0	0.56	-0.65	0.01
52	CO991	Main member	-38.69	0	-1.22	-1.88	0.01
	CO991	Connected member	-3.03	0	0.31	-0.16	0.02
	CO991	Connected member	5.06	-0.01	1.01	-1.34	-0.02
	CO991	Connected member	-6.54	0.01	-0.05	0.01	0.01
52	CO991	Connected member	-34.67	0	0.58	-0.71	0.01
	CO992	Main member	-38.69	0	-1.22	-1.88	0.01
	CO992	Connected member	-3.03	0	0.31	-0.16	0.02
	CO992	Connected member	5.06	-0.01	1.01	-1.34	-0.02
52	CO992	Connected member	-6.54	0.01	-0.05	0.01	0.01
	CO992	Connected member	-34.67	0	0.58	-0.71	0.01
	CO993	Main member	-43.19	0	-1.23	-1.94	0.01
	CO993	Connected member	-3.45	0	0.31	-0.18	0.02
52	CO993	Connected member	5.63	-0.01	1.06	-1.42	-0.02
	CO993	Connected member	-7.57	0.01	-0.07	0.03	0.01
	CO993	Connected member	-38.53	0	0.59	-0.73	0.01
	CO994	Main member	-43.19	0	-1.23	-1.94	0.01
52	CO994	Connected member	-3.45	0	0.31	-0.18	0.02
	CO994	Connected member	5.63	-0.01	1.06	-1.42	-0.02
	CO994	Connected member	-7.57	0.01	-0.07	0.03	0.01
	CO994	Connected member	-38.53	0	0.59	-0.73	0.01
52	CO995	Main member	-26.65	0	-1.19	-1.7	0.01
	CO995	Connected member	-2.31	0	0.29	-0.12	0.02
	CO995	Connected member	2.96	-0.01	0.89	-1.1	-0.02
	CO995	Connected member	-3.79	0.01	-0.01	-0.05	0.01
52	CO995	Connected member	-23.98	0	0.56	-0.67	0.01
	CO996	Main member	-26.65	0	-1.19	-1.7	0.01
	CO996	Connected member	-2.31	0	0.29	-0.12	0.02
	CO996	Connected member	2.96	-0.01	0.89	-1.1	-0.02
52	CO996	Connected member	-3.79	0.01	-0.01	-0.05	0.01
	CO996	Connected member	-23.98	0	0.56	-0.67	0.01

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Basic Geometry of the Joint			
Main member			
Member			
Length	l	7.95	m
Height	h	300	mm
Thickness	t	250	mm
Cross-Sectional Area	A	750	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	292	mm
Thickness	t	8	mm
Cross-Sectional Area	A	23.36	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	5	
Number of bolt rows (z-direction)	n _{dz}	3	
Distance between bolt columns	a ₁	50	mm
Distance between bolt rows	a ₂	110	mm
Distance from loaded end to bolt in grain direction	a _{3,1}	80	mm
Distance between fastener and edge No. 1	a _{4,1}	40	mm
Distance between fastener and edge No. 2	a _{4,2}	40	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	775.94	MN/m
Slip Modulus for ULS	K _u	397.92	MN/m
Polar moment of inertia	I _p	1960	cm ²
Rotation Modulus for SLS	C _{ser}	10.14	MNm/rad
Rotation Modulus for ULS	C _u	5.2	MNm/rad
Bolts			
Total number of bolts		15	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	250	mm
Connected Member No. 1			
Member			
Length	l	4.02	m
Height	h	240	mm
Thickness	t	220	mm
Cross-Sectional Area	A	528	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	232	mm
Thickness	t	8	mm
Cross-Sectional Area	A	18.56	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	5	
Number of bolt rows (z-direction)	n _{dz}	2	
Distance between bolt columns	a ₁	50	mm
Distance between bolt rows	a ₂	160	mm



::LAV/team::

Page: 289/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Distance from loaded end to bolt in grain direction	$a_{3,t}$	80	mm
Distance between fastener and edge No. 1	$a_{4,1}$	40	mm
Distance between fastener and edge No. 2	$a_{4,2}$	40	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	149.69	MN/m
Slip Modulus for ULS	K_u	76.77	MN/m
Polar moment of inertia	I_p	1140	cm ²
Rotation Modulus for SLS	C_{ser}	1.71	MNm/rad
Rotation Modulus for ULS	C_u	0.88	MNm/rad
Bolts			
Total number of bolts		10	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	220	mm
Connected Member No. 2			
Member			
Length	l	3.3	m
Height	h	280	mm
Thickness	t	260	mm
Cross-Sectional Area	A	728	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	272	mm
Thickness	t	8	mm
Cross-Sectional Area	A	21.76	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	5	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	50	mm
Distance between bolt rows	a_2	200	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	80	mm
Distance between fastener and edge No. 1	$a_{4,1}$	40	mm
Distance between fastener and edge No. 2	$a_{4,2}$	40	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	149.69	MN/m
Slip Modulus for ULS	K_u	76.77	MN/m
Polar moment of inertia	I_p	1500	cm ²
Rotation Modulus for SLS	C_{ser}	2.25	MNm/rad
Rotation Modulus for ULS	C_u	1.15	MNm/rad
Bolts			
Total number of bolts		10	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	260	mm
Connected Member No. 3			
Member			
Length	l	4.76	m
Height	h	260	mm
Thickness	t	260	mm
Cross-Sectional Area	A	676	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	236	mm
Thickness	t	8	mm
Cross-Sectional Area	A	18.88	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	5	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	60	mm
Distance between bolt rows	a_2	164	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	84	mm
Distance between fastener and edge No. 1	$a_{4,1}$	48	mm
Distance between fastener and edge No. 2	$a_{4,2}$	48	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	179.63	MN/m
Slip Modulus for ULS	K_u	92.12	MN/m
Polar moment of inertia	I_p	1392.4	cm ²
Rotation Modulus for SLS	C_{ser}	2.5	MNm/rad
Rotation Modulus for ULS	C_u	1.28	MNm/rad
Bolts			
Total number of bolts		10	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	260	mm
Connected Member No. 4			
Member			
Length	l	2.95	m
Height	h	220	mm
Thickness	t	220	mm
Cross-Sectional Area	A	484	cm ²



:LAV/team::

Page: 290/337

Sheet: 1

JOINTS

Project: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

■ 1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	196	mm
Thickness	t	8	mm
Cross-Sectional Area	A	15.68	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	5	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	60	mm
Distance between bolt rows	a_2	124	mm
Distance from loaded end to bolt in grain direction	$a_{3,1}$	84	mm
Distance between fastener and edge No. 1	$a_{4,1}$	48	mm
Distance between fastener and edge No. 2	$a_{4,2}$	48	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	179.63	MN/m
Slip Modulus for ULS	K_u	92.12	MN/m
Polar moment of inertia	I_p	1104.4	cm ²
Rotation Modulus for SLS	C_{ser}	1.98	MNm/rad
Rotation Modulus for ULS	C_u	1.02	MNm/rad
Bolts			
Total number of bolts		10	
Bolt types		1	
Diameter	d	12	mm
Area	A	1.13	cm ²
Length	l	220	mm

■ 2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
Main member				
52	CO35	0.21	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
52	CO523	0.50	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
52	CO7	0.86	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
52	CO523	0.25	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
52	CO259	0.03	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
52	CO523	0.13	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
52	CO523	0.14	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
52	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
52	CO259	0.03	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
52	CO7	0.04	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
52	CO522	0.19	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
52	CO522	0.20	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
52	CO522	0.05	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
52	CO523	0.10	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
52	CO259	0.01	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
Connected Member No. 1				
52	CO622	0.74	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
52	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
52	CO274	0.08	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
52	CO11	0.02	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
52	CO624	0.13	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
52	CO265	0.20	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
52	CO265	0.15	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
52	CO624	0.11	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
52	CO624	0.11	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
52	CO568	0.34	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
52	CO624	0.08	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
52	CO274	0.06	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
52	CO568	0.17	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
52	CO35	0.05	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
52	CO274	0.02	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
Connected Member No. 2				
52	CO33	0.16	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
52	CO7	0.54	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
52	CO50	0.10	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
52	CO7	0.03	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
52	CO7	0.09	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
52	CO7	0.07	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
52	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
52	CO7	0.04	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
52	CO7	0.08	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6



::LAV/team::

Page: 291/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

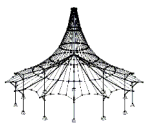
2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
52	CO276	0.09	≤ 1	6.2.3 5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
52	CO276	0.09	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
52	CO276	0.05	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
52	CO522	0.04	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
Connected Member No. 3				
52	CO11	0.23	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
52	CO11	0.27	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
52	CO7	0.97	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
52	CO11	0.16	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
52	CO7	0.04	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
52	CO7	0.04	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
52	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
52	CO7	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
52	CO7	0.01	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
52	CO7	0.03	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
52	CO522	0.20	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
52	CO522	0.20	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
52	CO522	0.11	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
52	CO523	0.11	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
Connected Member No. 4				
52	CO7	0.21	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
52	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
52	CO35	0.07	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
52	CO35	0.04	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
52	CO522	0.06	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
52	CO522	0.06	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
52	CO35	0.10	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
52	CO522	0.04	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
52	CO206	0.02	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
52	CO522	0.04	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
52	CO206	0.02	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
52	CO211	0.01	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
52	CO211	0.01	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
52	CO347	0.01	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4

JOINTS
CA8
Design of Joints**1.1 GENERAL DATA**

JOINTS CA8

Settings for		Details
Design Standard	National Annex	EN 1995-1-1:2004-11
Type of connection	Input Data	CEN
Comment		JOINTS - Steel to timber - Bolts
		Import from model
		Nudo interior cercha



::LAV/team::

Page: 292/337

Sheet: 1

JOINTS

Project: Examples

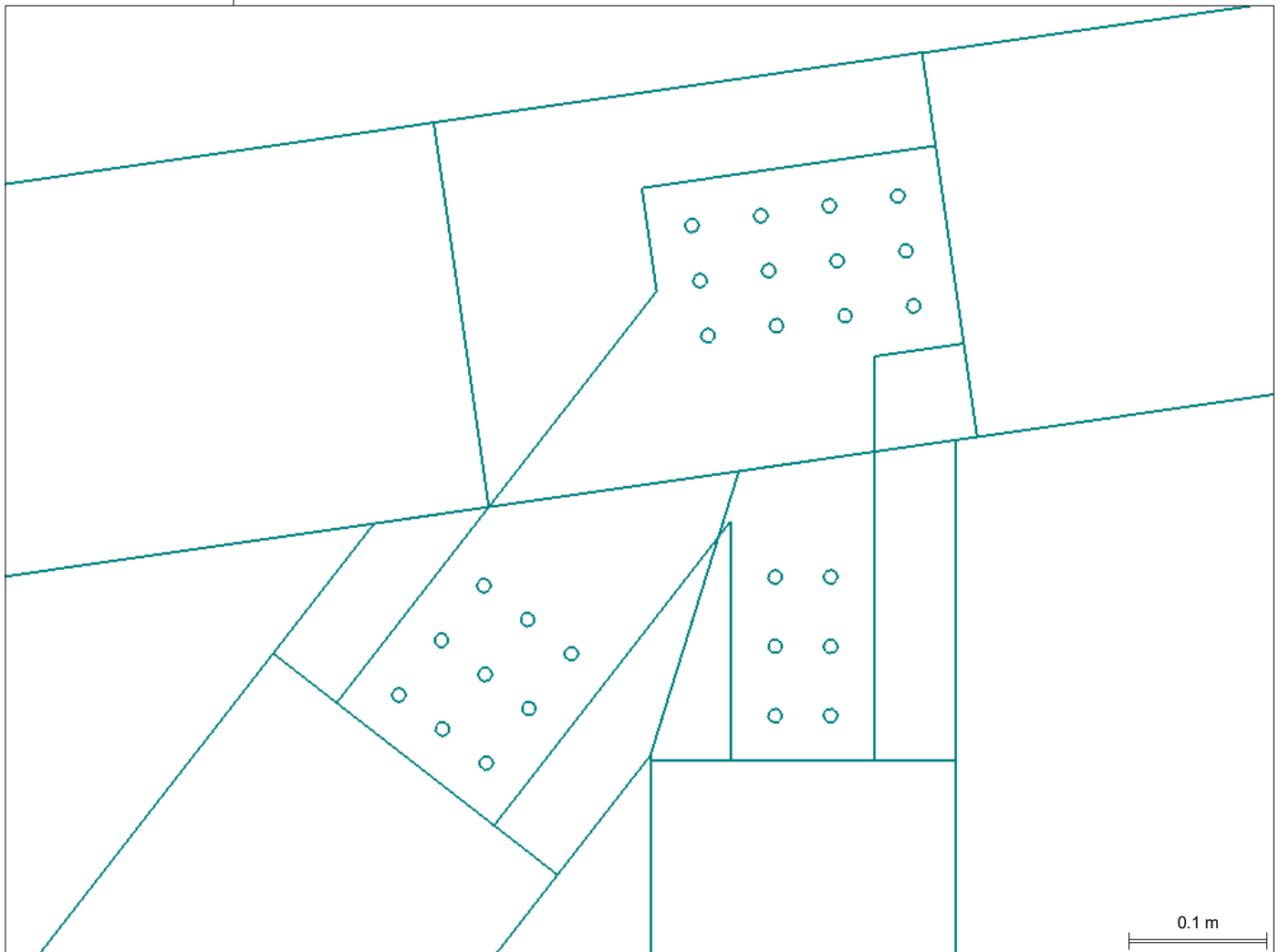
Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

VIEW OF CONNECTION



1.2 NODES AND MEMBERS

Node No.	Member No.	Member Type	Cross-section	Material	Angle [°]
61	105	Main member	T-Rectangle 260/280	Glulam Timber GL24h	179.99 81.84 43.95
	106	Continuous member	T-Rectangle 260/280	Glulam Timber GL24h	
	109	Connected member	T-Rectangle 220/220	Glulam Timber GL24h	
	111	Connected member	T-Rectangle 260/260	Glulam Timber GL24h	

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	LC1	Main member	-9.84	0.01	-0.3	0.06	-0.01
	LC1	Continuous member	-16.15	0	0.68	-0.45	-0.01
	LC1	Connected member	4.03	0	-0.07	-0.09	0
	LC1	Connected member	-9.21	0	-0.48	-0.42	0.01
61	CO1	Main member	-13.39	0.01	-0.4	0.09	-0.01
	CO1	Continuous member	-21.89	-0.01	0.92	-0.61	-0.01
	CO1	Connected member	5.43	0	-0.09	-0.13	0.01
	CO1	Connected member	-12.41	0	-0.65	-0.57	0.02
61	LC2	Main member	-6.31	0	-1.74	-1.06	0
	LC2	Continuous member	-11.67	0	2.38	-1.5	0
	LC2	Connected member	0.98	0	-0.07	-0.18	0
	LC2	Connected member	-7.45	0	-0.09	-0.26	0
61	CO2	Main member	-22	0.01	-2.75	-1.35	-0.01
	CO2	Continuous member	-37.72	-0.01	4.14	-2.65	-0.01
	CO2	Connected member	6.74	0	-0.18	-0.37	0.01
	CO2	Connected member	-22.45	0	-0.77	-0.92	0.02
61	LC3	Main member	-2.08	0	-0.48	-0.29	0
	LC3	Continuous member	-3.49	0	0.65	-0.41	0
	LC3	Connected member	0.2	0	-0.02	-0.05	0
	LC3	Connected member	-1.94	0	-0.02	-0.07	0



::LAV/team::

Page: 293/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO3	Main member	-24.84	0.01	-3.39	-1.75	-0.01
	CO3	Continuous member	-42.45	-0.01	5.02	-3.2	-0.01
	CO3	Connected member	7	0	-0.21	-0.43	0.01
	CO3	Connected member	-25.07	0	-0.8	-1.02	0.02
61	LC4	Main member	-13.89	0	-3.18	-1.94	0
	LC4	Continuous member	-23.25	0	4.33	-2.72	0
	LC4	Connected member	1.33	0	-0.12	-0.31	0
	LC4	Connected member	-12.94	0	-0.16	-0.47	0
61	CO4	Main member	-16.23	0.01	-1.04	-0.31	-0.01
	CO4	Continuous member	-26.62	-0.01	1.8	-1.16	-0.01
	CO4	Connected member	5.7	0	-0.11	-0.19	0.01
	CO4	Connected member	-15.03	0	-0.68	-0.66	0.02
61	LC5	Main member	-6.95	0	-1.59	-0.97	0
	LC5	Continuous member	-11.62	0	2.16	-1.36	0
	LC5	Connected member	0.67	0	-0.06	-0.15	0
	LC5	Connected member	-6.47	0	-0.08	-0.23	0
61	CO5	Main member	-34.4	0.01	-5.17	-2.85	-0.02
	CO5	Continuous member	-56.93	-0.01	7.44	-4.72	-0.01
	CO5	Connected member	7.4	0	-0.27	-0.6	0.01
	CO5	Connected member	-31.81	0	-0.89	-1.27	0.02
61	LC6	Main member	-31.11	0.16	-0.12	-0.12	-0.11
	LC6	Continuous member	-22.04	-0.06	-0.04	0.23	-0.07
	LC6	Connected member	-10.94	0	0.1	0.19	-0.02
	LC6	Connected member	14.27	-0.02	0.05	0.16	0.21
61	CO6	Main member	-43.01	0.01	-7.53	-4.3	-0.02
	CO6	Continuous member	-72.76	-0.01	10.67	-6.78	-0.01
	CO6	Connected member	8.7	0	-0.37	-0.84	0.01
	CO6	Connected member	-41.85	0	-1.01	-1.63	0.03
61	LC7	Main member	-15.88	0.15	1.09	0.81	-0.1
	LC7	Continuous member	6.72	-0.04	-2.36	1.92	-0.03
	LC7	Connected member	-15.02	-0.01	0.22	0.49	-0.02
	LC7	Connected member	33.82	-0.02	0.22	0.61	0.19
61	CO7	Main member	-45.84	0.01	-8.17	-4.7	-0.02
	CO7	Continuous member	-77.5	-0.01	11.56	-7.34	-0.01
	CO7	Connected member	8.97	0	-0.39	-0.91	0.01
	CO7	Connected member	-44.47	0	-1.04	-1.73	0.03
61	LC8	Main member	7.56	-1.7	-0.06	-0.05	3.26
	LC8	Continuous member	7.36	-0.56	0.03	-0.06	-0.47
	LC8	Connected member	0.65	-0.01	-0.02	-0.03	-0.03
	LC8	Connected member	-0.32	-0.13	0.02	0.03	0.87
61	CO8	Main member	-37.23	0.01	-5.82	-3.25	-0.02
	CO8	Continuous member	-61.66	-0.01	8.32	-5.28	-0.01
	CO8	Connected member	7.67	0	-0.3	-0.66	0.01
	CO8	Connected member	-34.42	0	-0.92	-1.37	0.02
61	LC9	Main member	33.6	-1.73	1.4	1.12	3.28
	LC9	Continuous member	45.84	-0.54	-2.67	1.91	-0.42
	LC9	Connected member	-0.57	-0.01	0.09	0.27	-0.04
	LC9	Connected member	17.18	-0.13	0.2	0.52	0.84
61	CO9	Main member	-48.26	0.01	-8.72	-5.04	-0.02
	CO9	Continuous member	-81.53	-0.01	12.31	-7.81	-0.01
	CO9	Connected member	9.2	0	-0.41	-0.96	0.01
	CO9	Connected member	-46.71	0	-1.07	-1.81	0.03
61	CO10	Main member	-48.12	0.01	-8.75	-5.09	-0.02
	CO10	Continuous member	-80.41	-0.01	12.36	-7.87	-0.01
	CO10	Connected member	8.01	0	-0.41	-0.97	0.01
	CO10	Connected member	-45.12	0	-1.07	-1.81	0.03
61	CO11	Main member	-51.1	0.01	-9.37	-5.44	-0.02
	CO11	Continuous member	-86.26	-0.01	13.2	-8.38	-0.01
	CO11	Connected member	9.46	0	-0.44	-1.03	0.01
	CO11	Connected member	-49.33	0	-1.1	-1.91	0.03
61	CO12	Main member	-50.95	0.01	-9.4	-5.49	-0.02
	CO12	Continuous member	-85.14	-0.01	13.25	-8.44	-0.01
	CO12	Connected member	8.27	0	-0.44	-1.03	0.01
	CO12	Connected member	-47.74	0	-1.1	-1.91	0.03
61	LC13	Main member	-6.76	0	-1.62	-1.04	0
	LC13	Continuous member	-10.14	0	2.23	-1.44	0
	LC13	Connected member	-0.92	0	-0.06	-0.16	0
	LC13	Connected member	-4.36	0	-0.08	-0.24	0
61	CO13	Main member	-42.49	0.01	-7.01	-3.98	-0.02
	CO13	Continuous member	-70.42	-0.01	9.96	-6.31	-0.01
	CO13	Connected member	8.16	0	-0.34	-0.78	0.01
	CO13	Connected member	-39.28	0	-0.98	-1.55	0.02
61	LC14	Main member	33.8	-1.72	1.67	0.96	3.29
	LC14	Continuous member	46.17	-0.55	-2.9	1.6	-0.45
	LC14	Connected member	-0.58	-0.01	0.07	0.21	-0.03
	LC14	Connected member	17.37	-0.13	0.18	0.43	0.86
61	CO14	Main member	-42.34	0.01	-7.04	-4.04	-0.02
	CO14	Continuous member	-69.3	-0.01	10.01	-6.37	-0.01
	CO14	Connected member	6.97	0	-0.34	-0.78	0.01
	CO14	Connected member	-37.69	0	-0.98	-1.55	0.02
61	LC15	Main member	53.53	-1.74	3.28	1.9	3.29
	LC15	Continuous member	78.39	-0.54	-5.66	3.18	-0.41
	LC15	Connected member	-2.4	-0.01	0.17	0.47	-0.03
	LC15	Connected member	35.08	-0.12	0.33	0.82	0.84
61	CO15	Main member	-76.37	0.16	-8.84	-5.16	-0.12
	CO15	Continuous member	-101.45	-0.06	12.3	-7.63	-0.07
	CO15	Connected member	-0.72	-0.01	-0.32	-0.8	0.01
	CO15	Connected member	-33.8	-0.02	-1.04	-1.68	0.22
61	LC16	Main member	62.01	-1.22	3.25	1.9	2.51
	LC16	Continuous member	84.92	-0.48	-5.62	3.13	-0.38
	LC16	Connected member	-1.09	-0.04	0.14	0.41	0.04
	LC16	Connected member	32.08	-0.12	0.34	0.82	0.88
61	CO16	Main member	-62.51	0.15	-7.74	-4.3	-0.11
	CO16	Continuous member	-75.4	-0.04	10.17	-6.07	-0.03



::LAV/team::

Page: 294/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO16	Connected member	-4.35	-0.01	-0.21	-0.51	0.01
	CO16	Connected member	-16.22	-0.02	-0.88	-1.26	0.21
	LC17	Main member	-17.93	0.16	1.42	0.96	-0.12
	LC17	Continuous member	-3.06	-0.04	-2.66	1.86	-0.04
61	LC17	Connected member	-6.36	-0.01	0.18	0.4	-0.01
	LC17	Connected member	21.45	-0.02	0.16	0.49	0.2
	CO17	Main member	-41.45	-1.53	-8.78	-5.09	2.99
	CO17	Continuous member	-74.88	-0.56	12.33	-7.86	-0.46
61	CO17	Connected member	9.78	-0.04	-0.43	-0.99	0.09
	CO17	Connected member	-46.98	-0.12	-1.05	-1.78	0.89
	LC18	Main member	-29.57	0.14	-0.3	-0.42	-0.09
	LC18	Continuous member	-13.25	-0.06	0.2	-0.01	-0.07
61	LC18	Connected member	-19.48	0	0.12	0.22	-0.02
	LC18	Connected member	25.96	-0.02	0.08	0.19	0.21
	CO18	Main member	-17.85	-1.54	-7.45	-4	2.97
	CO18	Continuous member	-40.08	-0.52	9.86	-6.04	-0.38
61	CO18	Connected member	8.71	-0.03	-0.32	-0.71	0.06
	CO18	Connected member	-31.22	-0.12	-0.89	-1.33	0.84
	CO19	Main member	-17.67	-1.53	-7.21	-4.14	2.97
	CO19	Continuous member	-39.79	-0.53	9.65	-6.32	-0.41
61	CO19	Connected member	8.7	-0.04	-0.34	-0.76	0.06
	CO19	Connected member	-31.07	-0.12	-0.91	-1.41	0.85
	CO20	Main member	0.23	-1.54	-5.75	-3.29	2.96
	CO20	Continuous member	-10.65	-0.5	7.15	-4.87	-0.35
61	CO20	Connected member	7.09	-0.03	-0.25	-0.53	0.03
	CO20	Connected member	-15.14	-0.12	-0.78	-1.06	0.81
	CO21	Main member	7.87	-1.07	-5.77	-3.28	2.23
	CO21	Continuous member	-4.76	-0.43	7.18	-4.92	-0.32
61	CO21	Connected member	8.25	-0.05	-0.28	-0.58	0.11
	CO21	Connected member	-17.82	-0.12	-0.77	-1.06	0.85
	CO22	Main member	-64.43	0.16	-7.44	-4.16	-0.13
	CO22	Continuous member	-84.28	-0.05	9.9	-6.13	-0.04
61	CO22	Connected member	3.44	-0.01	-0.25	-0.59	0.01
	CO22	Connected member	-27.35	-0.02	-0.93	-1.37	0.21
	CO23	Main member	-74.92	0.15	-8.99	-5.43	-0.1
	CO23	Continuous member	-93.48	-0.05	12.52	-7.85	-0.07
61	CO23	Connected member	-8.4	-0.01	-0.3	-0.77	0.01
	CO23	Connected member	-23.28	-0.02	-1.01	-1.65	0.22
	CO24	Main member	-76.23	0.15	-8.87	-5.21	-0.12
	CO24	Continuous member	-100.33	-0.06	12.36	-7.69	-0.07
61	CO24	Connected member	-1.9	-0.01	-0.32	-0.8	0.01
	CO24	Connected member	-32.22	-0.02	-1.03	-1.68	0.22
	CO25	Main member	-62.36	0.15	-7.76	-4.35	-0.11
	CO25	Continuous member	-74.29	-0.04	10.22	-6.13	-0.04
61	CO25	Connected member	-5.54	-0.01	-0.21	-0.52	0.01
	CO25	Connected member	-14.63	-0.02	-0.88	-1.26	0.21
	CO26	Main member	-41.3	-1.53	-8.8	-5.14	2.99
	CO26	Continuous member	-73.76	-0.56	12.38	-7.92	-0.46
61	CO26	Connected member	8.59	-0.04	-0.43	-1	0.09
	CO26	Connected member	-45.4	-0.12	-1.05	-1.78	0.89
	CO27	Main member	-17.7	-1.54	-7.48	-4.05	2.97
	CO27	Continuous member	-38.96	-0.51	9.91	-6.1	-0.38
61	CO27	Connected member	7.52	-0.03	-0.32	-0.71	0.06
	CO27	Connected member	-29.64	-0.12	-0.89	-1.34	0.84
	CO28	Main member	-17.53	-1.53	-7.23	-4.2	2.97
	CO28	Continuous member	-38.67	-0.53	9.7	-6.38	-0.41
61	CO28	Connected member	7.51	-0.03	-0.34	-0.76	0.06
	CO28	Connected member	-29.48	-0.12	-0.91	-1.42	0.85
	CO29	Main member	0.38	-1.54	-5.78	-3.34	2.96
	CO29	Continuous member	-9.53	-0.49	7.2	-4.93	-0.35
61	CO29	Connected member	5.9	-0.03	-0.25	-0.53	0.03
	CO29	Connected member	-13.56	-0.12	-0.78	-1.06	0.81
	CO30	Main member	8.01	-1.07	-5.8	-3.34	2.23
	CO30	Continuous member	-3.64	-0.43	7.23	-4.97	-0.32
61	CO30	Connected member	7.07	-0.05	-0.28	-0.58	0.11
	CO30	Connected member	-16.24	-0.12	-0.77	-1.06	0.85
	CO31	Main member	-64.28	0.16	-7.47	-4.22	-0.13
	CO31	Continuous member	-83.16	-0.05	9.95	-6.19	-0.05
61	CO31	Connected member	2.25	-0.01	-0.25	-0.6	0.01
	CO31	Connected member	-25.76	-0.02	-0.93	-1.37	0.21
	CO32	Main member	-74.78	0.15	-9.02	-5.49	-0.1
	CO32	Continuous member	-92.36	-0.05	12.57	-7.91	-0.07
61	CO32	Connected member	-9.59	-0.01	-0.3	-0.77	0.01
	CO32	Connected member	-21.7	-0.02	-1.01	-1.65	0.22
	CO33	Main member	-79.21	0.16	-9.49	-5.56	-0.12
	CO33	Continuous member	-106.18	-0.06	13.19	-8.19	-0.07
61	CO33	Connected member	-0.46	-0.01	-0.34	-0.86	0.01
	CO33	Connected member	-36.42	-0.02	-1.07	-1.78	0.22
	CO34	Main member	-65.35	0.15	-8.38	-4.7	-0.11
	CO34	Continuous member	-80.14	-0.04	11.05	-6.63	-0.03
61	CO34	Connected member	-4.09	-0.01	-0.23	-0.58	0.01
	CO34	Connected member	-18.83	-0.02	-0.92	-1.36	0.21
	CO35	Main member	-44.28	-1.53	-9.42	-5.49	2.99
	CO35	Continuous member	-79.61	-0.56	13.21	-8.42	-0.46
61	CO35	Connected member	10.05	-0.04	-0.46	-1.06	0.1
	CO35	Connected member	-49.6	-0.12	-1.08	-1.88	0.89
	CO36	Main member	-20.68	-1.54	-8.1	-4.39	2.97
	CO36	Continuous member	-44.8	-0.52	10.74	-6.59	-0.39
61	CO36	Connected member	8.97	-0.04	-0.35	-0.77	0.07
	CO36	Connected member	-33.84	-0.12	-0.92	-1.43	0.84
	CO37	Main member	-20.51	-1.53	-7.85	-4.54	2.97
	CO37	Continuous member	-44.52	-0.53	10.53	-6.88	-0.41
61	CO37	Connected member	8.97	-0.04	-0.37	-0.83	0.07
	CO37	Connected member	-33.69	-0.12	-0.94	-1.51	0.86



::LAV/team::

Page: 295/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO38	Main member	-2.6	-1.54	-6.4	-3.68	2.96
	CO38	Continuous member	-15.38	-0.5	8.03	-5.43	-0.36
	CO38	Connected member	7.36	-0.03	-0.28	-0.59	0.04
61	CO38	Connected member	-17.76	-0.12	-0.81	-1.16	0.82
	CO39	Main member	5.03	-1.07	-6.42	-3.68	2.23
	CO39	Continuous member	-9.49	-0.44	8.06	-5.47	-0.32
61	CO39	Connected member	8.52	-0.05	-0.3	-0.64	0.11
	CO39	Connected member	-20.44	-0.12	-0.8	-1.15	0.86
	CO40	Main member	-67.27	0.16	-8.09	-4.56	-0.13
61	CO40	Continuous member	-89.02	-0.05	10.78	-6.69	-0.04
	CO40	Connected member	3.7	-0.01	-0.27	-0.66	0.01
	CO40	Connected member	-29.96	-0.02	-0.96	-1.47	0.21
61	CO41	Main member	-77.76	0.15	-9.64	-5.84	-0.1
	CO41	Continuous member	-98.21	-0.05	13.4	-8.41	-0.07
	CO41	Connected member	-8.14	-0.01	-0.32	-0.83	0.01
61	CO41	Connected member	-25.9	-0.02	-1.04	-1.75	0.22
	CO42	Main member	-79.07	0.15	-9.51	-5.61	-0.12
	CO42	Continuous member	-105.07	-0.06	13.24	-8.25	-0.07
61	CO42	Connected member	-1.64	-0.01	-0.34	-0.86	0.01
	CO42	Connected member	-34.84	-0.02	-1.07	-1.78	0.22
61	CO43	Main member	-65.2	0.15	-8.41	-4.75	-0.11
	CO43	Continuous member	-79.02	-0.04	11.11	-6.69	-0.04
	CO43	Connected member	-5.27	-0.01	-0.23	-0.58	0.01
61	CO43	Connected member	-17.25	-0.02	-0.92	-1.36	0.21
	CO44	Main member	-44.14	-1.53	-9.45	-5.54	2.99
	CO44	Continuous member	-78.49	-0.56	13.27	-8.48	-0.46
61	CO44	Connected member	8.86	-0.04	-0.46	-1.06	0.1
	CO44	Connected member	-48.02	-0.12	-1.08	-1.88	0.89
61	CO45	Main member	-20.54	-1.54	-8.12	-4.45	2.97
	CO45	Continuous member	-43.69	-0.52	10.79	-6.65	-0.39
	CO45	Connected member	7.78	-0.04	-0.35	-0.77	0.07
61	CO45	Connected member	-32.26	-0.12	-0.92	-1.43	0.84
	CO46	Main member	-20.36	-1.53	-7.88	-4.6	2.97
	CO46	Continuous member	-43.4	-0.53	10.58	-6.93	-0.41
61	CO46	Connected member	7.78	-0.04	-0.37	-0.83	0.07
	CO46	Connected member	-32.1	-0.12	-0.94	-1.51	0.86
61	CO47	Main member	-2.46	-1.54	-6.43	-3.74	2.96
	CO47	Continuous member	-14.26	-0.5	8.08	-5.48	-0.36
	CO47	Connected member	6.17	-0.03	-0.28	-0.59	0.04
61	CO47	Connected member	-16.17	-0.12	-0.81	-1.16	0.82
	CO48	Main member	5.18	-1.07	-6.45	-3.73	2.23
	CO48	Continuous member	-8.37	-0.44	8.11	-5.53	-0.32
61	CO48	Connected member	7.33	-0.05	-0.3	-0.64	0.11
	CO48	Connected member	-18.85	-0.12	-0.8	-1.15	0.86
61	CO49	Main member	-67.12	0.16	-8.11	-4.62	-0.13
	CO49	Continuous member	-87.9	-0.05	10.84	-6.75	-0.05
	CO49	Connected member	2.51	-0.01	-0.27	-0.66	0.01
61	CO49	Connected member	-28.38	-0.02	-0.96	-1.47	0.21
	CO50	Main member	-77.62	0.15	-9.66	-5.89	-0.1
	CO50	Continuous member	-97.1	-0.05	13.46	-8.47	-0.07
61	CO50	Connected member	-9.33	-0.01	-0.32	-0.84	0.01
	CO50	Connected member	-24.32	-0.02	-1.04	-1.75	0.22
	CO51	Main member	-70.59	0.16	-7.13	-4.1	-0.12
61	CO51	Continuous member	-90.33	-0.06	9.94	-6.12	-0.07
	CO51	Connected member	-1.75	-0.01	-0.25	-0.61	0.01
	CO51	Connected member	-26.37	-0.02	-0.95	-1.41	0.22
61	CO52	Main member	-56.72	0.15	-6.03	-3.24	-0.11
	CO52	Continuous member	-64.29	-0.04	7.82	-4.57	-0.03
	CO52	Connected member	-5.38	-0.01	-0.14	-0.33	0.01
61	CO52	Connected member	-8.79	-0.02	-0.79	-1	0.2
	CO53	Main member	-35.68	-1.53	-7.07	-4.03	2.99
	CO53	Continuous member	-63.77	-0.55	9.98	-6.36	-0.45
61	CO53	Connected member	8.75	-0.04	-0.36	-0.81	0.08
	CO53	Connected member	-39.55	-0.12	-0.96	-1.52	0.87
	CO54	Main member	-12.08	-1.54	-5.74	-2.95	2.97
61	CO54	Continuous member	-28.98	-0.51	7.51	-4.55	-0.37
	CO54	Connected member	7.67	-0.03	-0.25	-0.53	0.04
	CO54	Connected member	-23.8	-0.12	-0.8	-1.07	0.83
61	CO55	Main member	-11.9	-1.54	-5.5	-3.09	2.97
	CO55	Continuous member	-28.69	-0.52	7.3	-4.83	-0.4
	CO55	Connected member	7.66	-0.03	-0.27	-0.58	0.05
61	CO55	Connected member	-23.64	-0.12	-0.82	-1.15	0.84
	CO56	Main member	6	-1.55	-4.05	-2.24	2.95
	CO56	Continuous member	0.44	-0.49	4.81	-3.39	-0.34
61	CO56	Connected member	6.05	-0.02	-0.18	-0.35	0.01
	CO56	Connected member	-7.72	-0.12	-0.69	-0.8	0.8
	CO57	Main member	13.64	-1.07	-4.07	-2.24	2.23
61	CO57	Continuous member	6.33	-0.43	4.84	-3.44	-0.32
	CO57	Connected member	7.22	-0.05	-0.21	-0.4	0.09
	CO57	Connected member	-10.4	-0.12	-0.68	-0.8	0.84
61	CO58	Main member	-58.64	0.16	-5.73	-3.11	-0.13
	CO58	Continuous member	-73.17	-0.05	7.55	-4.63	-0.04
	CO58	Connected member	2.41	-0.01	-0.18	-0.41	0.01
61	CO58	Connected member	-19.92	-0.02	-0.84	-1.11	0.21
	CO59	Main member	-69.14	0.15	-7.28	-4.38	-0.1
	CO59	Continuous member	-82.36	-0.05	10.16	-6.34	-0.07
61	CO59	Connected member	-9.43	-0.01	-0.23	-0.59	0.01
	CO59	Connected member	-15.86	-0.02	-0.92	-1.38	0.22
	CO60	Main member	-70.44	0.15	-7.16	-4.15	-0.12
61	CO60	Continuous member	-89.21	-0.06	10	-6.18	-0.07
	CO60	Connected member	-2.93	-0.01	-0.25	-0.62	0.01
	CO60	Connected member	-24.79	-0.02	-0.95	-1.42	0.22
61	CO61	Main member	-56.58	0.15	-6.05	-3.3	-0.11
	CO61	Continuous member	-63.17	-0.04	7.87	-4.63	-0.03



::LAV/team::

Page: 296/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO61	Connected member	-6.56	-0.01	-0.14	-0.33	0.01
	CO61	Connected member	-7.21	-0.02	-0.79	-1	0.2
	CO62	Main member	-35.53	-1.53	-7.09	-4.09	2.98
61	CO62	Continuous member	-62.66	-0.55	10.03	-6.42	-0.45
	CO62	Connected member	7.56	-0.04	-0.36	-0.81	0.07
	CO62	Connected member	-37.97	-0.12	-0.96	-1.52	0.87
61	CO63	Main member	-11.93	-1.54	-5.77	-3	2.97
	CO63	Continuous member	-27.86	-0.51	7.57	-4.61	-0.37
	CO63	Connected member	6.48	-0.03	-0.25	-0.53	0.04
61	CO63	Connected member	-22.22	-0.12	-0.8	-1.08	0.82
	CO64	Main member	-11.76	-1.54	-5.53	-3.15	2.97
	CO64	Continuous member	-27.58	-0.52	7.36	-4.89	-0.4
61	CO64	Connected member	6.48	-0.03	-0.27	-0.58	0.04
	CO64	Connected member	-22.06	-0.12	-0.82	-1.16	0.84
	CO65	Main member	6.15	-1.55	-4.08	-2.3	2.95
61	CO65	Continuous member	1.56	-0.49	4.86	-3.45	-0.34
	CO65	Connected member	4.87	-0.02	-0.18	-0.35	0.01
	CO65	Connected member	-6.14	-0.12	-0.69	-0.8	0.8
61	CO66	Main member	13.78	-1.07	-4.1	-2.29	2.22
	CO66	Continuous member	7.45	-0.43	4.89	-3.49	-0.32
	CO66	Connected member	6.03	-0.05	-0.21	-0.4	0.09
61	CO66	Connected member	-8.82	-0.12	-0.68	-0.8	0.84
	CO67	Main member	-58.5	0.16	-5.76	-3.16	-0.13
	CO67	Continuous member	-72.05	-0.05	7.6	-4.69	-0.04
61	CO67	Connected member	1.22	-0.01	-0.18	-0.41	0.01
	CO67	Connected member	-18.34	-0.02	-0.84	-1.11	0.21
	CO68	Main member	-68.99	0.15	-7.31	-4.43	-0.1
61	CO68	Continuous member	-81.25	-0.05	10.21	-6.4	-0.07
	CO68	Connected member	-10.61	-0.01	-0.23	-0.59	0
	CO68	Connected member	-14.27	-0.02	-0.92	-1.39	0.22
61	CO69	Main member	-71.11	0.16	-7.64	-4.42	-0.12
	CO69	Continuous member	-92.68	-0.06	10.66	-6.59	-0.07
	CO69	Connected member	-1.2	-0.01	-0.27	-0.68	0.01
61	CO69	Connected member	-28.95	-0.02	-0.97	-1.5	0.22
	CO70	Main member	-57.25	0.15	-6.54	-3.56	-0.11
	CO70	Continuous member	-66.64	-0.04	8.53	-5.03	-0.03
61	CO70	Connected member	-4.84	-0.01	-0.16	-0.4	0.01
	CO70	Connected member	-11.37	-0.02	-0.82	-1.08	0.21
	CO71	Main member	-36.2	-1.53	-7.58	-4.35	2.98
61	CO71	Continuous member	-66.12	-0.55	10.69	-6.82	-0.45
	CO71	Connected member	9.29	-0.04	-0.38	-0.87	0.08
	CO71	Connected member	-42.13	-0.12	-0.99	-1.6	0.88
61	CO72	Main member	-12.6	-1.54	-6.26	-3.26	2.97
	CO72	Continuous member	-31.32	-0.51	8.23	-5.01	-0.37
	CO72	Connected member	8.21	-0.03	-0.28	-0.59	0.05
61	CO72	Connected member	-26.38	-0.12	-0.83	-1.16	0.83
	CO73	Main member	-12.42	-1.53	-6.01	-3.41	2.97
	CO73	Continuous member	-31.03	-0.52	8.02	-5.29	-0.4
61	CO73	Connected member	8.21	-0.03	-0.3	-0.64	0.05
	CO73	Connected member	-26.22	-0.12	-0.85	-1.24	0.84
61	CO74	Main member	5.48	-1.54	-4.56	-2.56	2.95
	CO74	Continuous member	-1.9	-0.49	5.52	-3.85	-0.34
	CO74	Connected member	6.6	-0.03	-0.21	-0.41	0.02
61	CO74	Connected member	-10.3	-0.12	-0.72	-0.88	0.81
	CO75	Main member	13.12	-1.07	-4.58	-2.55	2.22
	CO75	Continuous member	3.99	-0.43	5.55	-3.89	-0.32
61	CO75	Connected member	7.76	-0.05	-0.23	-0.46	0.1
	CO75	Connected member	-12.98	-0.12	-0.71	-0.88	0.85
	CO76	Main member	-59.17	0.16	-6.25	-3.42	-0.13
61	CO76	Continuous member	-75.52	-0.05	8.26	-5.09	-0.04
	CO76	Connected member	2.95	-0.01	-0.2	-0.47	0.01
	CO76	Connected member	-22.5	-0.02	-0.87	-1.19	0.21
61	CO77	Main member	-69.66	0.15	-7.79	-4.69	-0.1
	CO77	Continuous member	-84.71	-0.05	10.87	-6.81	-0.07
	CO77	Connected member	-8.89	-0.01	-0.25	-0.65	0.01
61	CO77	Connected member	-18.43	-0.02	-0.95	-1.47	0.22
	CO78	Main member	-73.95	0.16	-8.29	-4.82	-0.12
	CO78	Continuous member	-97.41	-0.06	11.55	-7.15	-0.07
61	CO78	Connected member	-0.94	-0.01	-0.3	-0.74	0.01
	CO78	Connected member	-31.57	-0.02	-1.01	-1.59	0.22
	CO79	Main member	-60.09	0.15	-7.19	-3.96	-0.11
61	CO79	Continuous member	-71.37	-0.04	9.41	-5.59	-0.03
	CO79	Connected member	-4.57	-0.01	-0.19	-0.46	0.01
	CO79	Connected member	-13.99	-0.02	-0.86	-1.18	0.21
61	CO80	Main member	-39.03	-1.53	-8.23	-4.75	2.99
	CO80	Continuous member	-70.85	-0.56	11.57	-7.38	-0.46
	CO80	Connected member	9.56	-0.04	-0.41	-0.94	0.09
61	CO80	Connected member	-44.75	-0.12	-1.02	-1.7	0.88
	CO81	Main member	-15.43	-1.54	-6.9	-3.66	2.97
	CO81	Continuous member	-36.05	-0.51	9.11	-5.56	-0.38
61	CO81	Connected member	8.48	-0.03	-0.3	-0.65	0.06
	CO81	Connected member	-28.99	-0.12	-0.86	-1.25	0.83
61	CO82	Main member	-15.26	-1.53	-6.66	-3.8	2.97
	CO82	Continuous member	-35.76	-0.53	8.9	-5.84	-0.41
	CO82	Connected member	8.47	-0.03	-0.32	-0.71	0.06
61	CO82	Connected member	-28.84	-0.12	-0.88	-1.33	0.85
	CO83	Main member	2.65	-1.54	-5.21	-2.95	2.95
	CO83	Continuous member	-6.63	-0.49	6.4	-4.4	-0.35
61	CO83	Connected member	6.86	-0.03	-0.23	-0.47	0.03
	CO83	Connected member	-12.91	-0.12	-0.75	-0.98	0.81
	CO84	Main member	10.28	-1.07	-5.23	-2.94	2.23
61	CO84	Continuous member	-0.73	-0.43	6.43	-4.44	-0.32
	CO84	Connected member	8.03	-0.05	-0.26	-0.52	0.1
	CO84	Connected member	-15.59	-0.12	-0.74	-0.98	0.85



::LAV/team::

Page: 297/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO85	Main member	-62.01	0.16	-6.89	-3.82	-0.13
	CO85	Continuous member	-80.25	-0.05	9.14	-5.65	-0.04
	CO85	Connected member	3.21	-0.01	-0.23	-0.54	0.01
	CO85	Connected member	-25.12	-0.02	-0.9	-1.29	0.21
61	CO86	Main member	-72.5	0.15	-8.44	-5.09	-0.1
	CO86	Continuous member	-89.45	-0.05	11.76	-7.37	-0.07
	CO86	Connected member	-8.62	-0.01	-0.28	-0.71	0.01
	CO86	Connected member	-21.05	-0.02	-0.98	-1.57	0.22
61	CO87	Main member	-65.33	0.16	-5.93	-3.36	-0.12
	CO87	Continuous member	-81.57	-0.06	8.31	-5.08	-0.07
	CO87	Connected member	-2.23	-0.01	-0.2	-0.49	0.01
	CO87	Connected member	-21.53	-0.02	-0.89	-1.23	0.22
61	CO88	Main member	-51.46	0.15	-4.83	-2.51	-0.11
	CO88	Continuous member	-55.53	-0.04	6.18	-3.54	-0.03
	CO88	Connected member	-5.87	-0.01	-0.09	-0.22	0
	CO88	Connected member	-3.95	-0.02	-0.73	-0.82	0.2
61	CO89	Main member	-30.43	-1.53	-5.87	-3.29	2.98
	CO89	Continuous member	-55.02	-0.55	8.34	-5.33	-0.44
	CO89	Connected member	8.26	-0.03	-0.31	-0.69	0.06
	CO89	Connected member	-34.7	-0.12	-0.9	-1.34	0.87
61	CO90	Main member	-6.83	-1.54	-4.55	-2.21	2.96
	CO90	Continuous member	-20.22	-0.5	5.89	-3.52	-0.37
	CO90	Connected member	7.18	-0.03	-0.21	-0.41	0.03
	CO90	Connected member	-18.95	-0.12	-0.74	-0.9	0.82
61	CO91	Main member	-6.65	-1.54	-4.31	-2.36	2.96
	CO91	Continuous member	-19.94	-0.51	5.67	-3.8	-0.39
	CO91	Connected member	7.17	-0.03	-0.23	-0.46	0.04
	CO91	Connected member	-18.8	-0.12	-0.76	-0.98	0.83
61	CO92	Main member	11.25	-1.55	-2.86	-1.51	2.95
	CO92	Continuous member	9.19	-0.48	3.19	-2.37	-0.34
	CO92	Connected member	5.56	-0.02	-0.14	-0.23	0
	CO92	Connected member	-2.88	-0.12	-0.63	-0.63	0.79
61	CO93	Main member	18.89	-1.07	-2.88	-1.51	2.22
	CO93	Continuous member	15.08	-0.42	3.22	-2.41	-0.31
	CO93	Connected member	6.72	-0.05	-0.16	-0.28	0.08
	CO93	Connected member	-5.56	-0.12	-0.62	-0.62	0.84
61	CO94	Main member	-53.39	0.16	-4.54	-2.37	-0.13
	CO94	Continuous member	-64.41	-0.05	5.91	-3.59	-0.04
	CO94	Connected member	1.92	-0.01	-0.13	-0.29	0.01
	CO94	Connected member	-15.08	-0.02	-0.78	-0.93	0.21
61	CO95	Main member	-63.88	0.15	-6.09	-3.64	-0.1
	CO95	Continuous member	-73.6	-0.05	8.52	-5.3	-0.07
	CO95	Connected member	-9.91	-0.01	-0.18	-0.47	0
	CO95	Connected member	-11.01	-0.02	-0.86	-1.2	0.22
61	CO96	Main member	-39.65	0.01	-6.37	-3.58	-0.02
	CO96	Continuous member	-65.69	-0.01	9.07	-5.75	-0.01
	CO96	Connected member	7.9	0	-0.32	-0.72	0.01
	CO96	Connected member	-36.66	0	-0.95	-1.45	0.02
61	CO97	Main member	-39.51	0.01	-6.4	-3.64	-0.02
	CO97	Continuous member	-64.57	-0.01	9.12	-5.81	-0.01
	CO97	Connected member	6.71	0	-0.32	-0.72	0.01
	CO97	Connected member	-35.07	0	-0.95	-1.46	0.02
61	CO98	Main member	-67.75	0.16	-6.48	-3.7	-0.12
	CO98	Continuous member	-85.6	-0.06	9.06	-5.56	-0.07
	CO98	Connected member	-2.01	-0.01	-0.22	-0.55	0.01
	CO98	Connected member	-23.76	-0.02	-0.91	-1.32	0.22
61	CO99	Main member	-53.88	0.15	-5.38	-2.84	-0.11
	CO99	Continuous member	-59.56	-0.04	6.93	-4.01	-0.03
	CO99	Connected member	-5.64	-0.01	-0.11	-0.27	0.01
	CO99	Connected member	-6.18	-0.02	-0.76	-0.9	0.2
61	CO100	Main member	-32.84	-1.53	-6.42	-3.63	2.98
	CO100	Continuous member	-59.04	-0.55	9.09	-5.8	-0.45
	CO100	Connected member	8.48	-0.04	-0.33	-0.75	0.07
	CO100	Connected member	-36.93	-0.12	-0.93	-1.42	0.87
61	CO101	Main member	-9.24	-1.54	-5.1	-2.55	2.97
	CO101	Continuous member	-24.25	-0.5	6.63	-3.99	-0.37
	CO101	Connected member	7.4	-0.03	-0.23	-0.47	0.04
	CO101	Connected member	-21.18	-0.12	-0.77	-0.98	0.82
61	CO102	Main member	-9.07	-1.54	-4.86	-2.7	2.96
	CO102	Continuous member	-23.97	-0.52	6.42	-4.27	-0.4
	CO102	Connected member	7.4	-0.03	-0.25	-0.52	0.04
	CO102	Connected member	-21.03	-0.12	-0.79	-1.06	0.84
61	CO103	Main member	8.84	-1.55	-3.41	-1.85	2.95
	CO103	Continuous member	5.17	-0.48	3.94	-2.84	-0.34
	CO103	Connected member	5.79	-0.02	-0.16	-0.28	0.01
	CO103	Connected member	-5.11	-0.12	-0.66	-0.71	0.8
61	CO104	Main member	16.47	-1.07	-3.43	-1.84	2.22
	CO104	Continuous member	11.06	-0.43	3.97	-2.88	-0.31
	CO104	Connected member	6.95	-0.05	-0.18	-0.34	0.09
	CO104	Connected member	-7.79	-0.12	-0.65	-0.7	0.84
61	CO105	Main member	-55.8	0.16	-5.09	-2.71	-0.13
	CO105	Continuous member	-68.44	-0.05	6.66	-4.07	-0.04
	CO105	Connected member	2.14	-0.01	-0.15	-0.35	0.01
	CO105	Connected member	-17.31	-0.02	-0.81	-1.01	0.21
61	CO106	Main member	-66.3	0.15	-6.64	-3.98	-0.1
	CO106	Continuous member	-77.63	-0.05	9.27	-5.78	-0.07
	CO106	Connected member	-9.69	-0.01	-0.2	-0.52	0
	CO106	Connected member	-13.24	-0.02	-0.89	-1.29	0.22
61	CO107	Main member	-67.6	0.15	-6.51	-3.75	-0.11
	CO107	Continuous member	-84.48	-0.06	9.11	-5.62	-0.07
	CO107	Connected member	-3.19	-0.01	-0.22	-0.55	0.01
	CO107	Connected member	-22.17	-0.02	-0.91	-1.32	0.22
61	CO108	Main member	-53.74	0.15	-5.41	-2.9	-0.11
	CO108	Continuous member	-58.44	-0.04	6.99	-4.07	-0.03



::LAVteam::

Page: 298/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO108	Connected member	-6.83	-0.01	-0.11	-0.27	0.01
	CO108	Connected member	-4.6	-0.02	-0.76	-0.9	0.2
	CO109	Main member	-32.7	-1.53	-6.45	-3.69	2.98
61	CO109	Continuous member	-57.93	-0.55	9.14	-5.86	-0.45
	CO109	Connected member	7.29	-0.04	-0.33	-0.75	0.07
	CO109	Connected member	-35.35	-0.12	-0.93	-1.43	0.87
61	CO110	Main member	-9.1	-1.54	-5.13	-2.61	2.96
	CO110	Continuous member	-23.13	-0.5	6.69	-4.05	-0.37
	CO110	Connected member	6.22	-0.03	-0.23	-0.47	0.04
61	CO110	Connected member	-19.6	-0.12	-0.77	-0.98	0.82
	CO111	Main member	-8.92	-1.54	-4.88	-2.75	2.96
	CO111	Continuous member	-22.85	-0.52	6.48	-4.33	-0.4
61	CO111	Connected member	6.21	-0.03	-0.25	-0.52	0.04
	CO111	Connected member	-19.45	-0.12	-0.79	-1.06	0.84
61	CO112	Main member	8.98	-1.55	-3.43	-1.9	2.95
	CO112	Continuous member	6.29	-0.48	3.99	-2.9	-0.34
	CO112	Connected member	4.6	-0.02	-0.16	-0.29	0.01
61	CO112	Connected member	-3.52	-0.12	-0.66	-0.71	0.8
	CO113	Main member	16.62	-1.07	-3.45	-1.9	2.22
	CO113	Continuous member	12.18	-0.43	4.02	-2.94	-0.31
61	CO113	Connected member	5.77	-0.05	-0.18	-0.34	0.09
	CO113	Connected member	-6.21	-0.12	-0.65	-0.71	0.84
61	CO114	Main member	-55.66	0.16	-5.11	-2.77	-0.13
	CO114	Continuous member	-67.32	-0.05	6.72	-4.13	-0.04
	CO114	Connected member	0.96	-0.01	-0.15	-0.35	0.01
61	CO114	Connected member	-15.72	-0.02	-0.81	-1.01	0.21
	CO115	Main member	-66.15	0.15	-6.66	-4.03	-0.1
	CO115	Continuous member	-76.51	-0.05	9.33	-5.84	-0.07
61	CO115	Connected member	-10.87	-0.01	-0.2	-0.52	0
	CO115	Connected member	-11.66	-0.02	-0.89	-1.29	0.22
61	CO116	Main member	-62.49	0.16	-5.29	-2.96	-0.12
	CO116	Continuous member	-76.83	-0.06	7.42	-4.52	-0.07
	CO116	Connected member	-2.49	-0.01	-0.18	-0.43	0
61	CO116	Connected member	-18.91	-0.02	-0.85	-1.14	0.22
	CO117	Main member	-48.62	0.15	-4.19	-2.11	-0.11
	CO117	Continuous member	-50.79	-0.04	5.3	-2.98	-0.03
61	CO117	Connected member	-6.13	-0.01	-0.07	-0.15	0
	CO117	Connected member	-1.33	-0.02	-0.7	-0.72	0.2
61	CO118	Main member	-27.59	-1.53	-5.23	-2.9	2.98
	CO118	Continuous member	-50.29	-0.54	7.46	-4.77	-0.44
	CO118	Connected member	7.99	-0.03	-0.29	-0.63	0.06
61	CO118	Connected member	-32.09	-0.12	-0.87	-1.25	0.86
	CO119	Main member	-3.99	-1.54	-3.91	-1.82	2.96
	CO119	Continuous member	-15.5	-0.5	5.01	-2.97	-0.36
61	CO119	Connected member	6.91	-0.03	-0.18	-0.35	0.03
	CO119	Connected member	-16.34	-0.12	-0.71	-0.8	0.81
61	CO120	Main member	-3.82	-1.54	-3.66	-1.97	2.96
	CO120	Continuous member	-15.21	-0.51	4.8	-3.25	-0.39
	CO120	Connected member	6.9	-0.03	-0.2	-0.4	0.03
61	CO120	Connected member	-16.18	-0.12	-0.73	-0.88	0.83
	CO121	Main member	14.09	-1.55	-2.22	-1.12	2.95
	CO121	Continuous member	13.92	-0.48	2.31	-1.82	-0.33
61	CO121	Connected member	5.29	-0.02	-0.11	-0.17	0
	CO121	Connected member	-0.26	-0.12	-0.6	-0.53	0.79
61	CO122	Main member	21.72	-1.07	-2.24	-1.12	2.22
	CO122	Continuous member	19.81	-0.42	2.34	-1.86	-0.31
	CO122	Connected member	6.46	-0.05	-0.14	-0.22	0.08
61	CO122	Connected member	-2.95	-0.12	-0.59	-0.53	0.83
	CO123	Main member	-50.55	0.16	-3.89	-1.97	-0.13
	CO123	Continuous member	-59.67	-0.05	5.03	-3.04	-0.04
61	CO123	Connected member	1.66	-0.01	-0.11	-0.23	0.01
	CO123	Connected member	-12.46	-0.02	-0.75	-0.83	0.21
61	CO124	Main member	-61.04	0.15	-5.44	-3.24	-0.1
	CO124	Continuous member	-68.86	-0.05	7.64	-4.74	-0.07
	CO124	Connected member	-10.17	-0.01	-0.16	-0.4	0
61	CO124	Connected member	-8.39	-0.02	-0.83	-1.11	0.22
	CO125	Main member	-23.9	0.01	-2.79	-1.38	-0.01
61	CO125	Continuous member	-39.41	-0.01	4.17	-2.66	-0.01
	CO125	Connected member	6.42	0	-0.18	-0.36	0.01
61	CO125	Connected member	-22.11	0	-0.77	-0.92	0.02
	CO126	Main member	-23.61	0.01	-2.84	-1.49	-0.01
	CO126	Continuous member	-37.17	-0.01	4.28	-2.78	-0.01
61	CO126	Connected member	4.04	0	-0.18	-0.37	0.01
	CO126	Connected member	-18.94	0	-0.77	-0.92	0.02
61	CO127	Main member	-32.5	0.01	-5.14	-2.82	-0.02
	CO127	Continuous member	-55.24	-0.01	7.4	-4.71	-0.01
	CO127	Connected member	7.72	0	-0.28	-0.61	0.01
61	CO127	Connected member	-32.15	0	-0.89	-1.28	0.02
	CO128	Main member	-32.21	0.01	-5.19	-2.93	-0.01
	CO128	Continuous member	-53.01	-0.01	7.5	-4.82	-0.01
61	CO128	Connected member	5.35	0	-0.27	-0.61	0.01
	CO128	Connected member	-28.99	0	-0.89	-1.28	0.02
61	CO129	Main member	-35.34	0.01	-5.78	-3.22	-0.02
	CO129	Continuous member	-59.97	-0.01	8.28	-5.26	-0.01
	CO129	Connected member	7.99	0	-0.3	-0.67	0.01
61	CO129	Connected member	-34.77	0	-0.92	-1.37	0.02
	CO130	Main member	-35.05	0.01	-5.84	-3.33	-0.01
	CO130	Continuous member	-57.74	-0.01	8.39	-5.38	-0.01
61	CO130	Connected member	5.61	0	-0.3	-0.67	0.01
	CO130	Connected member	-31.61	0	-0.92	-1.38	0.02
	CO131	Main member	-26.73	0.01	-3.43	-1.77	-0.02
	CO131	Continuous member	-44.14	-0.01	5.05	-3.21	-0.01
	CO131	Connected member	6.68	0	-0.2	-0.42	0.01
	CO131	Connected member	-24.73	0	-0.8	-1.02	0.02



::LAV/team::

Page: 299/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO132	Main member	-26.44	0.01	-3.48	-1.88	-0.01
	CO132	Continuous member	-41.9	-0.01	5.16	-3.33	-0.01
	CO132	Connected member	4.31	0	-0.2	-0.43	0.01
61	CO132	Connected member	-21.56	0	-0.8	-1.02	0.02
	CO133	Main member	-60.59	0.16	-5.25	-2.94	-0.12
	CO133	Continuous member	-75.15	-0.06	7.38	-4.51	-0.07
61	CO133	Connected member	-2.18	-0.01	-0.18	-0.44	0.01
	CO133	Connected member	-19.26	-0.02	-0.85	-1.14	0.22
	CO134	Main member	-46.73	0.15	-4.15	-2.09	-0.11
61	CO134	Continuous member	-49.11	-0.04	5.26	-2.97	-0.03
	CO134	Connected member	-5.81	-0.01	-0.07	-0.16	0
	CO134	Connected member	-1.68	-0.02	-0.7	-0.72	0.2
61	CO135	Main member	-25.69	-1.53	-5.19	-2.87	2.97
	CO135	Continuous member	-48.6	-0.54	7.42	-4.75	-0.44
	CO135	Connected member	8.31	-0.03	-0.29	-0.64	0.06
61	CO135	Connected member	-32.43	-0.12	-0.87	-1.25	0.86
	CO136	Main member	-2.1	-1.54	-3.87	-1.8	2.96
	CO136	Continuous member	-13.81	-0.5	4.97	-2.95	-0.36
61	CO136	Connected member	7.23	-0.03	-0.19	-0.36	0.03
	CO136	Connected member	-16.69	-0.12	-0.71	-0.8	0.81
61	CO137	Main member	-1.92	-1.53	-3.63	-1.94	2.96
	CO137	Continuous member	-13.52	-0.51	4.76	-3.23	-0.39
	CO137	Connected member	7.22	-0.03	-0.21	-0.41	0.03
61	CO137	Connected member	-16.53	-0.12	-0.73	-0.88	0.83
	CO138	Main member	15.98	-1.55	-2.18	-1.1	2.94
	CO138	Continuous member	15.6	-0.48	2.28	-1.8	-0.33
61	CO138	Connected member	5.61	-0.02	-0.12	-0.18	0
	CO138	Connected member	-0.61	-0.12	-0.6	-0.53	0.79
61	CO139	Main member	23.62	-1.07	-2.2	-1.09	2.22
	CO139	Continuous member	21.49	-0.42	2.31	-1.85	-0.31
	CO139	Connected member	6.78	-0.05	-0.14	-0.23	0.08
61	CO139	Connected member	-3.3	-0.12	-0.59	-0.53	0.83
	CO140	Main member	-48.65	0.16	-3.86	-1.95	-0.13
	CO140	Continuous member	-57.99	-0.05	4.99	-3.02	-0.04
61	CO140	Connected member	1.97	-0.01	-0.11	-0.24	0.01
	CO140	Connected member	-12.81	-0.02	-0.75	-0.83	0.21
61	CO141	Main member	-59.14	0.15	-5.4	-3.21	-0.1
	CO141	Continuous member	-67.18	-0.05	7.6	-4.73	-0.07
	CO141	Connected member	-9.86	-0.01	-0.16	-0.41	0
61	CO141	Connected member	-8.74	-0.02	-0.83	-1.11	0.22
	CO142	Main member	-60.3	0.15	-5.31	-3.05	-0.11
	CO142	Continuous member	-72.91	-0.06	7.49	-4.63	-0.07
61	CO142	Connected member	-4.55	-0.01	-0.18	-0.44	0
	CO142	Connected member	-16.09	-0.02	-0.85	-1.14	0.22
61	CO143	Main member	-46.44	0.15	-4.21	-2.19	-0.11
	CO143	Continuous member	-46.87	-0.04	5.37	-3.08	-0.03
	CO143	Connected member	-8.18	-0.01	-0.07	-0.16	0
61	CO143	Connected member	1.48	-0.02	-0.69	-0.73	0.2
	CO144	Main member	-25.4	-1.53	-5.24	-2.98	2.97
	CO144	Continuous member	-46.36	-0.54	7.52	-4.87	-0.43
61	CO144	Connected member	5.93	-0.03	-0.29	-0.64	0.06
	CO144	Connected member	-29.27	-0.12	-0.87	-1.25	0.86
61	CO145	Main member	-1.81	-1.54	-3.92	-1.91	2.95
	CO145	Continuous member	-11.57	-0.5	5.07	-3.07	-0.36
	CO145	Connected member	4.86	-0.03	-0.19	-0.36	0.03
61	CO145	Connected member	-13.52	-0.12	-0.71	-0.81	0.81
	CO146	Main member	-1.63	-1.53	-3.68	-2.05	2.95
	CO146	Continuous member	-11.29	-0.51	4.86	-3.35	-0.39
61	CO146	Connected member	4.85	-0.03	-0.21	-0.41	0.03
	CO146	Connected member	-13.37	-0.12	-0.73	-0.89	0.83
61	CO147	Main member	16.27	-1.54	-2.23	-1.21	2.94
	CO147	Continuous member	17.84	-0.48	2.38	-1.92	-0.33
	CO147	Connected member	3.24	-0.02	-0.12	-0.18	0
61	CO147	Connected member	2.55	-0.12	-0.59	-0.54	0.79
	CO148	Main member	23.91	-1.07	-2.25	-1.2	2.21
	CO148	Continuous member	23.73	-0.42	2.41	-1.97	-0.31
61	CO148	Connected member	4.41	-0.05	-0.14	-0.23	0.08
	CO148	Connected member	-0.14	-0.12	-0.59	-0.53	0.83
61	CO149	Main member	-48.36	0.16	-3.91	-2.06	-0.13
	CO149	Continuous member	-55.75	-0.05	5.1	-3.14	-0.04
	CO149	Connected member	-0.4	-0.01	-0.11	-0.24	0.01
61	CO149	Connected member	-9.64	-0.02	-0.75	-0.84	0.21
	CO150	Main member	-58.85	0.14	-5.46	-3.32	-0.1
	CO150	Continuous member	-64.94	-0.05	7.7	-4.85	-0.07
61	CO150	Connected member	-12.23	-0.01	-0.16	-0.41	0
	CO150	Connected member	-5.58	-0.02	-0.82	-1.11	0.22
61	CO151	Main member	-63.43	0.16	-5.9	-3.34	-0.12
	CO151	Continuous member	-79.88	-0.06	8.27	-5.07	-0.07
	CO151	Connected member	-1.91	-0.01	-0.21	-0.5	0.01
61	CO151	Connected member	-21.87	-0.02	-0.89	-1.24	0.22
	CO152	Main member	-49.57	0.15	-4.8	-2.48	-0.11
	CO152	Continuous member	-53.84	-0.04	6.14	-3.52	-0.03
61	CO152	Connected member	-5.55	-0.01	-0.1	-0.22	0
	CO152	Connected member	-4.3	-0.02	-0.73	-0.82	0.2
61	CO153	Main member	-28.53	-1.53	-5.83	-3.27	2.98
	CO153	Continuous member	-53.33	-0.55	8.3	-5.31	-0.44
	CO153	Connected member	8.57	-0.04	-0.32	-0.7	0.07
61	CO153	Connected member	-35.05	-0.12	-0.9	-1.34	0.87
	CO154	Main member	-4.93	-1.54	-4.51	-2.19	2.96
	CO154	Continuous member	-18.54	-0.5	5.85	-3.51	-0.36
61	CO154	Connected member	7.49	-0.03	-0.21	-0.42	0.04
	CO154	Connected member	-19.3	-0.12	-0.74	-0.9	0.82
61	CO155	Main member	-4.76	-1.53	-4.27	-2.34	2.96
	CO155	Continuous member	-18.25	-0.51	5.64	-3.79	-0.39



::LAV/team::

Page: 300/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO155	Connected member	7.49	-0.03	-0.23	-0.47	0.04
	CO155	Connected member	-19.15	-0.12	-0.76	-0.98	0.83
	CO156	Main member	13.15	-1.55	-2.82	-1.49	2.95
61	CO156	Continuous member	10.88	-0.48	3.15	-2.36	-0.33
	CO156	Connected member	5.88	-0.02	-0.14	-0.24	0.01
	CO156	Connected member	-3.23	-0.12	-0.63	-0.63	0.79
61	CO157	Main member	20.78	-1.07	-2.84	-1.49	2.22
	CO157	Continuous member	16.77	-0.42	3.18	-2.4	-0.31
	CO157	Connected member	7.04	-0.05	-0.17	-0.29	0.09
61	CO157	Connected member	-5.91	-0.12	-0.62	-0.63	0.84
	CO158	Main member	-51.49	0.16	-4.5	-2.35	-0.13
	CO158	Continuous member	-62.72	-0.05	5.87	-3.58	-0.04
61	CO158	Connected member	2.24	-0.01	-0.13	-0.3	0.01
	CO158	Connected member	-15.42	-0.02	-0.78	-0.93	0.21
	CO159	Main member	-61.98	0.15	-6.05	-3.61	-0.1
61	CO159	Continuous member	-71.91	-0.05	8.48	-5.29	-0.07
	CO159	Connected member	-9.59	-0.01	-0.19	-0.47	0
	CO159	Connected member	-11.36	-0.02	-0.86	-1.21	0.22
61	CO160	Main member	-63.14	0.15	-5.95	-3.45	-0.11
	CO160	Continuous member	-77.64	-0.06	8.37	-5.19	-0.07
	CO160	Connected member	-4.29	-0.01	-0.21	-0.51	0.01
61	CO160	Connected member	-18.71	-0.02	-0.88	-1.24	0.22
	CO161	Main member	-49.28	0.15	-4.85	-2.59	-0.11
	CO161	Continuous member	-51.6	-0.04	6.25	-3.64	-0.03
61	CO161	Connected member	-7.92	-0.01	-0.1	-0.23	0
	CO161	Connected member	-1.14	-0.02	-0.73	-0.82	0.2
	CO162	Main member	-28.24	-1.53	-5.89	-3.38	2.97
61	CO162	Continuous member	-51.09	-0.54	8.41	-5.43	-0.44
	CO162	Connected member	6.2	-0.03	-0.32	-0.7	0.06
	CO162	Connected member	-31.89	-0.12	-0.9	-1.35	0.87
61	CO163	Main member	-4.64	-1.54	-4.57	-2.3	2.96
	CO163	Continuous member	-16.3	-0.5	5.95	-3.62	-0.36
	CO163	Connected member	5.12	-0.03	-0.21	-0.42	0.03
61	CO163	Connected member	-16.14	-0.12	-0.74	-0.9	0.82
	CO164	Main member	-4.47	-1.53	-4.33	-2.45	2.96
	CO164	Continuous member	-16.02	-0.51	5.74	-3.9	-0.39
61	CO164	Connected member	5.12	-0.03	-0.23	-0.48	0.03
	CO164	Connected member	-15.98	-0.12	-0.76	-0.98	0.83
	CO165	Main member	13.44	-1.54	-2.88	-1.6	2.94
61	CO165	Continuous member	13.11	-0.48	3.26	-2.47	-0.33
	CO165	Connected member	3.5	-0.02	-0.14	-0.24	0
	CO165	Connected member	-0.06	-0.12	-0.63	-0.63	0.79
61	CO166	Main member	21.07	-1.07	-2.9	-1.59	2.22
	CO166	Continuous member	19	-0.42	3.28	-2.52	-0.31
	CO166	Connected member	4.67	-0.05	-0.17	-0.29	0.08
61	CO166	Connected member	-2.75	-0.12	-0.62	-0.63	0.84
	CO167	Main member	-51.2	0.16	-4.56	-2.46	-0.13
	CO167	Continuous member	-60.48	-0.05	5.98	-3.7	-0.04
61	CO167	Connected member	-0.14	-0.01	-0.13	-0.31	0.01
	CO167	Connected member	-12.26	-0.02	-0.78	-0.94	0.21
	CO168	Main member	-61.69	0.14	-6.1	-3.72	-0.1
61	CO168	Continuous member	-69.67	-0.05	8.58	-5.41	-0.07
	CO168	Connected member	-11.97	-0.01	-0.19	-0.48	0
	CO168	Connected member	-8.19	-0.02	-0.86	-1.21	0.22
61	CO169	Main member	-54.81	0.16	-3.55	-1.88	-0.11
	CO169	Continuous member	-64.03	-0.06	5.03	-3.01	-0.07
	CO169	Connected member	-3.21	-0.01	-0.11	-0.26	0
61	CO169	Connected member	-11.83	-0.02	-0.76	-0.88	0.21
	CO170	Main member	-40.95	0.15	-2.45	-1.04	-0.11
	CO170	Continuous member	-38	-0.04	2.92	-1.48	-0.03
61	CO170	Connected member	-6.84	-0.01	0	0.02	0
	CO170	Connected member	5.73	-0.02	-0.61	-0.46	0.2
	CO171	Main member	-19.92	-1.53	-3.48	-1.82	2.97
61	CO171	Continuous member	-37.5	-0.53	5.08	-3.26	-0.43
	CO171	Connected member	7.27	-0.03	-0.22	-0.46	0.04
	CO171	Connected member	-25.01	-0.12	-0.78	-0.99	0.85
61	CO172	Main member	3.67	-1.54	-2.17	-0.75	2.95
	CO172	Continuous member	-2.72	-0.49	2.63	-1.47	-0.35
	CO172	Connected member	6.19	-0.02	-0.12	-0.18	0.01
61	CO172	Connected member	-9.27	-0.12	-0.62	-0.54	0.8
	CO173	Main member	3.85	-1.54	-1.92	-0.9	2.95
	CO173	Continuous member	-2.43	-0.5	2.42	-1.75	-0.38
61	CO173	Connected member	6.18	-0.02	-0.14	-0.23	0.01
	CO173	Connected member	-9.11	-0.12	-0.64	-0.62	0.82
	CO174	Main member	21.75	-1.55	-0.48	-0.06	2.94
61	CO174	Continuous member	26.69	-0.47	-0.05	-0.33	-0.32
	CO174	Connected member	4.57	-0.02	-0.05	0	-0.02
	CO174	Connected member	6.8	-0.12	-0.51	-0.28	0.78
61	CO175	Main member	29.38	-1.07	-0.5	-0.06	2.21
	CO175	Continuous member	32.58	-0.42	-0.02	-0.38	-0.3
	CO175	Connected member	5.74	-0.04	-0.08	-0.05	0.07
61	CO175	Connected member	4.12	-0.12	-0.5	-0.27	0.82
	CO176	Main member	-42.87	0.16	-2.15	-0.9	-0.13
	CO176	Continuous member	-46.88	-0.05	2.65	-1.53	-0.04
61	CO176	Connected member	0.94	-0.01	-0.04	-0.06	0
	CO176	Connected member	-5.39	-0.02	-0.66	-0.57	0.21
	CO177	Main member	-53.36	0.15	-3.7	-2.16	-0.1
61	CO177	Continuous member	-56.06	-0.05	5.25	-3.23	-0.06
	CO177	Connected member	-10.88	-0.01	-0.09	-0.23	0
	CO177	Connected member	-1.32	-0.02	-0.74	-0.84	0.21
61	CO178	Main member	-54.52	0.15	-3.6	-1.99	-0.11
	CO178	Continuous member	-61.8	-0.06	5.14	-3.13	-0.07
	CO178	Connected member	-5.58	-0.01	-0.11	-0.26	0
	CO178	Connected member	-8.67	-0.02	-0.76	-0.88	0.22



::LAV/team::

Page: 301/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO179	Main member	-40.65	0.15	-2.5	-1.15	-0.11
	CO179	Continuous member	-35.76	-0.04	3.02	-1.6	-0.03
	CO179	Connected member	-9.21	-0.01	0	0.02	0
61	CO179	Connected member	8.9	-0.02	-0.6	-0.47	0.2
	CO180	Main member	-19.63	-1.53	-3.54	-1.93	2.97
	CO180	Continuous member	-35.26	-0.53	5.18	-3.38	-0.43
61	CO180	Connected member	4.9	-0.03	-0.22	-0.46	0.04
	CO180	Connected member	-21.84	-0.12	-0.78	-0.99	0.85
	CO181	Main member	3.96	-1.54	-2.22	-0.86	2.95
61	CO181	Continuous member	-0.48	-0.49	2.74	-1.59	-0.35
	CO181	Connected member	3.82	-0.02	-0.12	-0.18	0.01
	CO181	Connected member	-6.1	-0.12	-0.62	-0.55	0.8
61	CO182	Main member	4.14	-1.54	-1.98	-1.01	2.95
	CO182	Continuous member	-0.19	-0.5	2.53	-1.87	-0.38
	CO182	Connected member	3.81	-0.02	-0.14	-0.23	0.01
61	CO182	Connected member	-5.95	-0.12	-0.64	-0.63	0.81
	CO183	Main member	22.04	-1.55	-0.53	-0.17	2.94
	CO183	Continuous member	28.93	-0.47	0.05	-0.45	-0.32
61	CO183	Connected member	2.2	-0.02	-0.05	0	-0.02
	CO183	Connected member	9.97	-0.12	-0.5	-0.28	0.78
61	CO184	Main member	29.68	-1.07	-0.55	-0.17	2.21
	CO184	Continuous member	34.82	-0.41	0.08	-0.5	-0.3
	CO184	Connected member	3.37	-0.04	-0.08	-0.05	0.06
61	CO184	Connected member	7.28	-0.12	-0.5	-0.28	0.82
	CO185	Main member	-42.58	0.16	-2.21	-1.01	-0.12
	CO185	Continuous member	-44.64	-0.05	2.75	-1.65	-0.04
61	CO185	Connected member	-1.43	-0.01	-0.04	-0.06	0
	CO185	Connected member	-2.22	-0.02	-0.65	-0.58	0.21
61	CO186	Main member	-53.06	0.14	-3.75	-2.27	-0.1
	CO186	Continuous member	-53.83	-0.05	5.35	-3.35	-0.07
	CO186	Connected member	-13.25	-0.01	-0.09	-0.23	0
61	CO186	Connected member	1.84	-0.02	-0.73	-0.85	0.21
	CO187	Main member	-51.97	0.16	-2.9	-1.49	-0.11
	CO187	Continuous member	-59.3	-0.06	4.15	-2.46	-0.07
61	CO187	Connected member	-3.47	-0.01	-0.09	-0.19	0
	CO187	Connected member	-9.22	-0.02	-0.73	-0.78	0.21
61	CO188	Main member	-38.11	0.15	-1.8	-0.64	-0.11
	CO188	Continuous member	-33.27	-0.04	2.04	-0.92	-0.03
	CO188	Connected member	-7.1	-0.01	0.02	0.08	0
61	CO188	Connected member	8.35	-0.02	-0.57	-0.37	0.2
	CO189	Main member	-17.09	-1.53	-2.84	-1.43	2.97
	CO189	Continuous member	-32.77	-0.53	4.2	-2.71	-0.42
61	CO189	Connected member	7.01	-0.03	-0.2	-0.39	0.04
	CO189	Connected member	-22.39	-0.12	-0.75	-0.89	0.84
61	CO190	Main member	6.51	-1.54	-1.52	-0.36	2.95
	CO190	Continuous member	2.01	-0.49	1.76	-0.92	-0.35
	CO190	Connected member	5.92	-0.02	-0.09	-0.12	0.01
61	CO190	Connected member	-6.65	-0.12	-0.59	-0.45	0.8
	CO191	Main member	6.68	-1.54	-1.28	-0.51	2.95
	CO191	Continuous member	2.3	-0.5	1.55	-1.2	-0.38
61	CO191	Connected member	5.92	-0.02	-0.11	-0.17	0.01
	CO191	Connected member	-6.5	-0.12	-0.61	-0.53	0.81
61	CO192	Main member	24.58	-1.55	0.17	0.33	2.94
	CO192	Continuous member	31.42	-0.47	-0.92	0.22	-0.32
	CO192	Connected member	4.3	-0.02	-0.02	0.06	-0.02
61	CO192	Connected member	9.42	-0.12	-0.47	-0.18	0.77
	CO193	Main member	32.22	-1.07	0.14	0.33	2.21
	CO193	Continuous member	37.31	-0.41	-0.89	0.17	-0.3
61	CO193	Connected member	5.47	-0.04	-0.05	0.01	0.06
	CO193	Connected member	6.73	-0.12	-0.47	-0.18	0.82
61	CO194	Main member	-40.03	0.16	-1.51	-0.51	-0.13
	CO194	Continuous member	-42.15	-0.05	1.77	-0.98	-0.04
	CO194	Connected member	0.68	-0.01	-0.02	0	0
61	CO194	Connected member	-2.77	-0.02	-0.62	-0.48	0.21
	CO195	Main member	-50.52	0.15	-3.05	-1.76	-0.1
	CO195	Continuous member	-51.33	-0.05	4.36	-2.68	-0.06
61	CO195	Connected member	-11.15	-0.01	-0.07	-0.17	0
	CO195	Connected member	1.29	-0.02	-0.7	-0.75	0.21
61	CO196	Main member	-51.68	0.15	-2.95	-1.6	-0.11
	CO196	Continuous member	-57.06	-0.06	4.25	-2.58	-0.07
	CO196	Connected member	-5.84	-0.01	-0.09	-0.2	0
61	CO196	Connected member	-6.05	-0.02	-0.73	-0.78	0.21
	CO197	Main member	-37.81	0.15	-1.86	-0.75	-0.11
	CO197	Continuous member	-31.03	-0.04	2.14	-1.04	-0.03
61	CO197	Connected member	-9.47	-0.01	0.02	0.08	0
	CO197	Connected member	11.51	-0.02	-0.57	-0.37	0.2
61	CO198	Main member	-16.8	-1.53	-2.89	-1.54	2.97
	CO198	Continuous member	-30.54	-0.53	4.3	-2.83	-0.42
	CO198	Connected member	4.63	-0.03	-0.2	-0.4	0.03
61	CO198	Connected member	-19.23	-0.12	-0.75	-0.9	0.84
	CO199	Main member	6.8	-1.54	-1.58	-0.47	2.95
	CO199	Continuous member	4.25	-0.48	1.86	-1.04	-0.35
61	CO199	Connected member	3.55	-0.02	-0.09	-0.12	0
	CO199	Connected member	-3.49	-0.12	-0.58	-0.45	0.79
61	CO200	Main member	6.97	-1.54	-1.33	-0.62	2.95
	CO200	Continuous member	4.53	-0.5	1.65	-1.32	-0.38
	CO200	Connected member	3.55	-0.02	-0.11	-0.17	0.01
61	CO200	Connected member	-3.33	-0.12	-0.61	-0.53	0.81
	CO201	Main member	24.88	-1.55	0.11	0.22	2.94
	CO201	Continuous member	33.65	-0.47	-0.82	0.1	-0.32
61	CO201	Connected member	1.93	-0.02	-0.02	0.06	-0.03
	CO201	Connected member	12.58	-0.12	-0.47	-0.18	0.77
61	CO202	Main member	32.51	-1.07	0.09	0.23	2.21
	CO202	Continuous member	39.54	-0.41	-0.79	0.05	-0.3



::LAV/team::

Page: 302/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO202	Connected member	3.1	-0.04	-0.05	0.01	0.06
	CO202	Connected member	9.89	-0.12	-0.46	-0.18	0.82
	CO203	Main member	-39.74	0.16	-1.56	-0.62	-0.12
61	CO203	Continuous member	-39.91	-0.05	1.87	-1.1	-0.04
	CO203	Connected member	-1.69	-0.01	-0.02	0	0
	CO203	Connected member	0.39	-0.02	-0.62	-0.48	0.21
61	CO204	Main member	-50.22	0.14	-3.11	-1.87	-0.1
	CO204	Continuous member	-49.09	-0.05	4.47	-2.79	-0.07
	CO204	Connected member	-13.52	-0.01	-0.07	-0.17	0
61	CO204	Connected member	4.46	-0.02	-0.7	-0.75	0.21
	CO205	Main member	-60.15	0.25	-0.59	-0.09	-0.18
	CO205	Continuous member	-55.03	-0.09	0.87	-0.26	-0.11
61	CO205	Connected member	-11.02	-0.01	0.06	0.15	-0.01
	CO205	Connected member	9.04	-0.04	-0.58	-0.33	0.34
	CO206	Main member	-37.01	0.24	1.24	1.31	-0.18
61	CO206	Continuous member	-11.63	-0.06	-2.63	2.28	-0.04
	CO206	Connected member	-17.06	-0.01	0.23	0.61	-0.01
	CO206	Connected member	38.28	-0.04	-0.31	0.36	0.32
61	CO207	Main member	-2.05	-2.55	-0.49	0	4.92
	CO207	Continuous member	-10.84	-0.85	0.96	-0.7	-0.67
	CO207	Connected member	6.41	-0.04	-0.12	-0.18	0.03
61	CO207	Connected member	-12.89	-0.2	-0.61	-0.52	1.37
	CO208	Main member	37.27	-2.57	1.7	1.76	4.86
	CO208	Continuous member	47.11	-0.76	-3.07	2.24	-0.52
61	CO208	Connected member	4.6	-0.03	0.05	0.28	-0.04
	CO208	Connected member	13.32	-0.2	-0.34	0.21	1.27
	CO209	Main member	37.56	-2.55	2.1	1.51	4.85
61	CO209	Continuous member	47.58	-0.78	-3.42	1.78	-0.56
	CO209	Connected member	4.59	-0.03	0.02	0.19	-0.04
	CO209	Connected member	13.58	-0.2	-0.38	0.08	1.29
61	CO210	Main member	67.39	-2.58	4.5	2.88	4.82
	CO210	Continuous member	96.08	-0.71	-7.5	4.1	-0.45
	CO210	Connected member	1.89	-0.01	0.16	0.56	-0.12
61	CO210	Connected member	40.07	-0.19	-0.14	0.65	1.21
	CO211	Main member	80.12	-1.77	4.46	2.89	3.59
	CO211	Continuous member	105.89	-0.63	-7.44	4.01	-0.43
61	CO211	Connected member	3.84	-0.06	0.12	0.48	0.04
	CO211	Connected member	35.58	-0.2	-0.14	0.65	1.3
	CO212	Main member	-40.24	0.26	1.73	1.53	-0.2
61	CO212	Continuous member	-26.44	-0.07	-3.09	2.19	-0.06
	CO212	Connected member	-4.11	-0.01	0.18	0.48	-0.01
	CO212	Connected member	19.77	-0.03	-0.4	0.18	0.33
61	CO213	Main member	-57.71	0.24	-0.84	-0.55	-0.16
	CO213	Continuous member	-41.74	-0.09	1.23	-0.63	-0.1
	CO213	Connected member	-23.8	-0.01	0.09	0.2	-0.01
61	CO213	Connected member	26.54	-0.04	-0.53	-0.27	0.34
	CO214	Main member	-68.78	0.25	-2.94	-1.54	-0.18
	CO214	Continuous member	-70.88	-0.09	4.1	-2.31	-0.11
61	CO214	Connected member	-9.73	-0.01	-0.03	-0.09	0
	CO214	Connected member	-0.99	-0.03	-0.7	-0.69	0.34
	CO215	Main member	-45.64	0.24	-1.11	-0.13	-0.18
61	CO215	Continuous member	-27.48	-0.06	0.58	0.25	-0.05
	CO215	Connected member	-15.77	-0.02	0.14	0.37	-0.01
	CO215	Connected member	28.27	-0.04	-0.44	0	0.32
61	CO216	Main member	-10.65	-2.54	-2.84	-1.44	4.93
	CO216	Continuous member	-26.66	-0.87	4.17	-2.73	-0.68
	CO216	Connected member	7.72	-0.05	-0.21	-0.42	0.07
61	CO216	Connected member	-22.93	-0.2	-0.74	-0.88	1.4
	CO217	Main member	28.67	-2.56	-0.65	0.33	4.87
	CO217	Continuous member	31.3	-0.77	0.12	0.23	-0.53
61	CO217	Connected member	5.91	-0.03	-0.04	0.04	0
	CO217	Connected member	3.3	-0.2	-0.47	-0.14	1.29
	CO218	Main member	28.96	-2.55	-0.24	0.09	4.86
61	CO218	Continuous member	31.77	-0.79	-0.23	-0.23	-0.58
	CO218	Connected member	5.9	-0.03	-0.07	-0.05	0
	CO218	Connected member	3.55	-0.2	-0.5	-0.28	1.32
61	CO219	Main member	58.79	-2.57	2.16	1.47	4.83
	CO219	Continuous member	80.28	-0.73	-4.32	2.1	-0.47
	CO219	Connected member	3.2	-0.02	0.07	0.33	-0.09
61	CO219	Connected member	30.06	-0.19	-0.27	0.3	1.23
	CO220	Main member	71.52	-1.76	2.12	1.47	3.6
	CO220	Continuous member	90.1	-0.64	-4.26	2.02	-0.44
61	CO220	Connected member	5.15	-0.06	0.03	0.24	0.07
	CO220	Connected member	25.57	-0.2	-0.26	0.3	1.32
	CO221	Main member	-48.87	0.26	-0.62	0.1	-0.2
61	CO221	Continuous member	-42.28	-0.07	0.13	0.16	-0.06
	CO221	Connected member	-2.81	-0.02	0.09	0.24	0
	CO221	Connected member	9.74	-0.03	-0.53	-0.18	0.33
61	CO222	Main member	-66.35	0.24	-3.19	-2	-0.16
	CO222	Continuous member	-57.59	-0.08	4.45	-2.67	-0.1
	CO222	Connected member	-22.51	-0.01	0	-0.05	-0.01
61	CO222	Connected member	16.52	-0.04	-0.66	-0.64	0.34
	CO223	Main member	-71.63	0.25	-3.58	-1.93	-0.18
	CO223	Continuous member	-75.61	-0.09	4.98	-2.87	-0.11
61	CO223	Connected member	-9.47	-0.01	-0.06	-0.15	0
	CO223	Connected member	-3.61	-0.03	-0.74	-0.78	0.35
61	CO224	Main member	-48.49	0.24	-1.75	-0.52	-0.18
	CO224	Continuous member	-32.21	-0.06	1.46	-0.31	-0.05
	CO224	Connected member	-15.51	-0.02	0.12	0.3	0
61	CO224	Connected member	25.65	-0.04	-0.47	-0.09	0.33
	CO225	Main member	-13.49	-2.54	-3.48	-1.83	4.94
	CO225	Continuous member	-31.39	-0.88	5.05	-3.28	-0.69
	CO225	Connected member	7.98	-0.05	-0.24	-0.48	0.08
	CO225	Connected member	-25.54	-0.2	-0.77	-0.97	1.4



::LAV/team::

Page: 303/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO226	Main member	25.84	-2.56	-1.29	-0.06	4.87
	CO226	Continuous member	26.57	-0.78	1	-0.32	-0.54
	CO226	Connected member	6.18	-0.04	-0.07	-0.02	0
61	CO226	Connected member	0.68	-0.2	-0.5	-0.24	1.3
	CO227	Main member	26.13	-2.55	-0.88	-0.3	4.87
	CO227	Continuous member	27.05	-0.8	0.65	-0.78	-0.58
61	CO227	Connected member	6.17	-0.04	-0.1	-0.11	0.01
	CO227	Connected member	0.94	-0.2	-0.54	-0.37	1.32
	CO228	Main member	55.96	-2.57	1.52	1.08	4.83
61	CO228	Continuous member	75.56	-0.73	-3.45	1.56	-0.47
	CO228	Connected member	3.47	-0.02	0.05	0.27	-0.08
	CO228	Connected member	27.45	-0.19	-0.31	0.21	1.24
61	CO229	Main member	68.69	-1.76	1.48	1.09	3.6
	CO229	Continuous member	85.38	-0.64	-3.39	1.48	-0.44
	CO229	Connected member	5.42	-0.06	0	0.18	0.08
61	CO229	Connected member	22.96	-0.2	-0.3	0.21	1.33
	CO230	Main member	-51.71	0.26	-1.26	-0.3	-0.2
	CO230	Continuous member	-47.01	-0.07	1.01	-0.4	-0.06
61	CO230	Connected member	-2.55	-0.02	0.06	0.18	0
	CO230	Connected member	7.13	-0.03	-0.56	-0.28	0.33
	CO231	Main member	-69.19	0.24	-3.84	-2.39	-0.16
61	CO231	Continuous member	-62.32	-0.08	5.34	-3.23	-0.1
	CO231	Connected member	-22.25	-0.01	-0.03	-0.11	0
	CO231	Connected member	13.91	-0.04	-0.69	-0.73	0.34
61	CO232	Main member	-63	0.25	-1.23	-0.49	-0.18
	CO232	Continuous member	-59.76	-0.09	1.75	-0.82	-0.11
	CO232	Connected member	-10.76	-0.01	0.04	0.09	0
61	CO232	Connected member	6.42	-0.04	-0.61	-0.42	0.34
	CO233	Main member	-39.85	0.24	0.59	0.91	-0.18
	CO233	Continuous member	-16.36	-0.06	-1.75	1.73	-0.04
61	CO233	Connected member	-16.79	-0.02	0.21	0.54	-0.01
	CO233	Connected member	35.67	-0.04	-0.34	0.27	0.32
	CO234	Main member	-4.88	-2.55	-1.13	-0.39	4.93
61	CO234	Continuous member	-15.56	-0.86	1.84	-1.25	-0.67
	CO234	Connected member	6.68	-0.04	-0.14	-0.24	0.04
	CO234	Connected member	-15.51	-0.2	-0.65	-0.62	1.38
61	CO235	Main member	34.44	-2.57	1.05	1.37	4.86
	CO235	Continuous member	42.38	-0.76	-2.2	1.7	-0.52
	CO235	Connected member	4.87	-0.03	0.03	0.21	-0.03
61	CO235	Connected member	10.71	-0.2	-0.37	0.11	1.27
	CO236	Main member	34.73	-2.55	1.46	1.12	4.86
	CO236	Continuous member	42.86	-0.78	-2.55	1.24	-0.57
61	CO236	Connected member	4.86	-0.03	-0.01	0.13	-0.03
	CO236	Connected member	10.96	-0.2	-0.41	-0.02	1.3
61	CO237	Main member	64.55	-2.58	3.86	2.5	4.82
	CO237	Continuous member	91.36	-0.72	-6.63	3.56	-0.46
	CO237	Connected member	2.16	-0.01	0.14	0.5	-0.12
61	CO237	Connected member	37.46	-0.19	-0.18	0.56	1.21
	CO238	Main member	77.28	-1.77	3.82	2.5	3.6
	CO238	Continuous member	101.17	-0.63	-6.57	3.47	-0.43
61	CO238	Connected member	4.11	-0.06	0.09	0.42	0.05
	CO238	Connected member	32.97	-0.2	-0.17	0.56	1.31
61	CO239	Main member	-43.08	0.26	1.09	1.14	-0.2
	CO239	Continuous member	-31.17	-0.07	-2.21	1.64	-0.06
	CO239	Connected member	-3.84	-0.01	0.15	0.42	-0.01
61	CO239	Connected member	17.16	-0.03	-0.43	0.08	0.33
	CO240	Main member	-60.55	0.24	-1.49	-0.95	-0.16
61	CO240	Continuous member	-46.47	-0.08	2.11	-1.18	-0.1
	CO240	Connected member	-23.54	-0.01	0.06	0.13	-0.01
	CO240	Connected member	23.93	-0.04	-0.56	-0.37	0.34
61	CO241	Main member	-74.05	0.25	-4.13	-2.27	-0.18
	CO241	Continuous member	-79.65	-0.09	5.73	-3.34	-0.11
	CO241	Connected member	-9.25	-0.01	-0.08	-0.21	0
61	CO241	Connected member	-5.83	-0.03	-0.77	-0.87	0.35
	CO242	Main member	-50.91	0.24	-2.3	-0.86	-0.18
61	CO242	Continuous member	-36.24	-0.06	2.21	-0.78	-0.05
	CO242	Connected member	-15.28	-0.02	0.1	0.25	0
	CO242	Connected member	23.43	-0.04	-0.5	-0.17	0.33
61	CO243	Main member	-15.9	-2.54	-4.03	-2.17	4.94
	CO243	Continuous member	-35.42	-0.88	5.8	-3.76	-0.7
	CO243	Connected member	8.21	-0.05	-0.26	-0.54	0.09
61	CO243	Connected member	-27.77	-0.2	-0.8	-1.05	1.41
	CO244	Main member	23.42	-2.56	-1.84	-0.39	4.88
61	CO244	Continuous member	22.55	-0.78	1.74	-0.78	-0.54
	CO244	Connected member	6.4	-0.04	-0.09	-0.08	0.01
	CO244	Connected member	-1.54	-0.2	-0.53	-0.32	1.31
61	CO245	Main member	23.71	-2.55	-1.43	-0.64	4.87
	CO245	Continuous member	23.02	-0.8	1.39	-1.25	-0.59
	CO245	Connected member	6.39	-0.04	-0.12	-0.16	0.01
61	CO245	Connected member	-1.28	-0.2	-0.56	-0.45	1.33
	CO246	Main member	53.54	-2.57	0.97	0.75	4.83
61	CO246	Continuous member	71.54	-0.73	-2.71	1.1	-0.48
	CO246	Connected member	3.69	-0.02	0.03	0.22	-0.07
	CO246	Connected member	25.22	-0.19	-0.33	0.13	1.24
61	CO247	Main member	66.27	-1.76	0.94	0.76	3.61
	CO247	Continuous member	81.35	-0.65	-2.65	1.02	-0.44
	CO247	Connected member	5.64	-0.07	-0.02	0.13	0.09
61	CO247	Connected member	20.74	-0.2	-0.33	0.13	1.33
	CO248	Main member	-54.13	0.26	-1.81	-0.64	-0.2
61	CO248	Continuous member	-51.04	-0.07	1.76	-0.87	-0.06
	CO248	Connected member	-2.32	-0.02	0.04	0.12	0
	CO248	Connected member	4.9	-0.03	-0.59	-0.36	0.33
61	CO249	Main member	-71.61	0.24	-4.38	-2.73	-0.16
	CO249	Continuous member	-66.36	-0.08	6.09	-3.71	-0.1



::LAV/team::

Page: 304/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO249	Connected member	-22.03	-0.02	-0.05	-0.16	0
	CO249	Connected member	11.68	-0.04	-0.72	-0.82	0.34
	CO250	Main member	-73.9	0.25	-4.16	-2.33	-0.18
61	CO250	Continuous member	-78.53	-0.09	5.79	-3.4	-0.11
	CO250	Connected member	-10.43	-0.01	-0.08	-0.21	0
	CO250	Connected member	-4.25	-0.03	-0.76	-0.87	0.35
61	CO251	Main member	-50.76	0.24	-2.33	-0.91	-0.18
	CO251	Continuous member	-35.12	-0.06	2.26	-0.84	-0.05
	CO251	Connected member	-16.47	-0.02	0.1	0.25	0
61	CO251	Connected member	25.01	-0.04	-0.5	-0.18	0.33
	CO252	Main member	-15.76	-2.54	-4.06	-2.23	4.94
	CO252	Continuous member	-34.3	-0.88	5.86	-3.82	-0.69
61	CO252	Connected member	7.02	-0.05	-0.26	-0.54	0.09
	CO252	Connected member	-26.19	-0.2	-0.79	-1.05	1.41
	CO253	Main member	23.57	-2.56	-1.86	-0.45	4.87
61	CO253	Continuous member	23.67	-0.78	1.79	-0.84	-0.54
	CO253	Connected member	5.22	-0.04	-0.09	-0.08	0.01
	CO253	Connected member	0.04	-0.2	-0.52	-0.32	1.3
61	CO254	Main member	23.86	-2.55	-1.46	-0.69	4.87
	CO254	Continuous member	24.14	-0.8	1.44	-1.3	-0.59
	CO254	Connected member	5.21	-0.04	-0.12	-0.17	0.01
61	CO254	Connected member	0.3	-0.2	-0.56	-0.45	1.33
	CO255	Main member	53.69	-2.57	0.94	0.7	4.83
	CO255	Continuous member	72.66	-0.73	-2.66	1.04	-0.48
61	CO255	Connected member	2.51	-0.02	0.03	0.22	-0.07
	CO255	Connected member	26.8	-0.19	-0.33	0.13	1.24
	CO256	Main member	66.42	-1.76	0.91	0.7	3.61
61	CO256	Continuous member	82.47	-0.65	-2.6	0.96	-0.44
	CO256	Connected member	4.46	-0.07	-0.02	0.13	0.09
	CO256	Connected member	22.32	-0.2	-0.32	0.13	1.33
61	CO257	Main member	-53.98	0.26	-1.84	-0.69	-0.2
	CO257	Continuous member	-49.92	-0.07	1.81	-0.93	-0.06
	CO257	Connected member	-3.51	-0.02	0.04	0.12	0
61	CO257	Connected member	6.48	-0.03	-0.59	-0.36	0.33
	CO258	Main member	-71.46	0.24	-4.41	-2.79	-0.16
	CO258	Continuous member	-65.24	-0.08	6.14	-3.77	-0.1
61	CO258	Connected member	-23.21	-0.02	-0.05	-0.17	0
	CO258	Connected member	13.26	-0.04	-0.72	-0.82	0.34
	CO259	Main member	-76.89	0.25	-4.78	-2.67	-0.18
61	CO259	Continuous member	-84.38	-0.09	6.62	-3.9	-0.11
	CO259	Connected member	-8.98	-0.02	-0.1	-0.27	0
	CO259	Connected member	-8.45	-0.03	-0.8	-0.96	0.35
61	CO260	Main member	-53.75	0.24	-2.95	-1.26	-0.18
	CO260	Continuous member	-40.97	-0.06	3.09	-1.33	-0.05
	CO260	Connected member	-15.02	-0.02	0.08	0.19	0
61	CO260	Connected member	20.82	-0.04	-0.54	-0.27	0.33
	CO261	Main member	-18.74	-2.55	-4.68	-2.57	4.95
	CO261	Continuous member	-40.14	-0.89	6.68	-4.31	-0.7
61	CO261	Connected member	8.47	-0.06	-0.28	-0.6	0.1
	CO261	Connected member	-30.39	-0.2	-0.83	-1.15	1.42
	CO262	Main member	20.59	-2.56	-2.48	-0.79	4.88
61	CO262	Continuous member	17.83	-0.79	2.62	-1.33	-0.55
	CO262	Connected member	6.67	-0.04	-0.11	-0.14	0.02
	CO262	Connected member	-4.16	-0.2	-0.56	-0.41	1.31
61	CO263	Main member	20.88	-2.55	-2.08	-1.03	4.87
	CO263	Continuous member	18.3	-0.81	2.27	-1.8	-0.59
	CO263	Connected member	6.66	-0.04	-0.14	-0.23	0.02
61	CO263	Connected member	-3.9	-0.2	-0.6	-0.54	1.34
	CO264	Main member	50.71	-2.57	0.33	0.36	4.84
	CO264	Continuous member	66.82	-0.74	-1.84	0.55	-0.48
61	CO264	Connected member	3.96	-0.02	0.01	0.16	-0.06
	CO264	Connected member	22.61	-0.19	-0.37	0.03	1.25
	CO265	Main member	63.44	-1.76	0.3	0.37	3.61
61	CO265	Continuous member	76.63	-0.65	-1.78	0.47	-0.45
	CO265	Connected member	5.91	-0.07	-0.04	0.07	0.1
	CO265	Connected member	18.13	-0.2	-0.36	0.04	1.34
61	CO266	Main member	-56.97	0.26	-2.45	-1.03	-0.2
	CO266	Continuous member	-55.78	-0.07	2.64	-1.42	-0.06
	CO266	Connected member	-2.06	-0.02	0.02	0.06	0
61	CO266	Connected member	2.29	-0.03	-0.62	-0.46	0.33
	CO267	Main member	-74.46	0.24	-5.03	-3.13	-0.16
	CO267	Continuous member	-71.09	-0.08	6.97	-4.27	-0.1
61	CO267	Connected member	-21.77	-0.02	-0.07	-0.23	0
	CO267	Connected member	9.07	-0.04	-0.76	-0.91	0.34
	CO268	Main member	-76.74	0.25	-4.8	-2.73	-0.18
61	CO268	Continuous member	-83.26	-0.09	6.67	-3.96	-0.11
	CO268	Connected member	-10.17	-0.02	-0.1	-0.27	0
	CO268	Connected member	-6.87	-0.03	-0.8	-0.97	0.35
61	CO269	Main member	-53.6	0.24	-2.97	-1.31	-0.18
	CO269	Continuous member	-39.85	-0.06	3.14	-1.39	-0.05
	CO269	Connected member	-16.21	-0.02	0.08	0.19	0
61	CO269	Connected member	22.4	-0.04	-0.53	-0.27	0.33
	CO270	Main member	-18.59	-2.54	-4.7	-2.62	4.94
	CO270	Continuous member	-39.03	-0.88	6.74	-4.37	-0.7
61	CO270	Connected member	7.29	-0.06	-0.28	-0.6	0.1
	CO270	Connected member	-28.81	-0.2	-0.83	-1.15	1.42
	CO271	Main member	20.73	-2.56	-2.51	-0.84	4.88
61	CO271	Continuous member	18.94	-0.79	2.67	-1.39	-0.55
	CO271	Connected member	5.48	-0.04	-0.11	-0.14	0.02
	CO271	Connected member	-2.57	-0.2	-0.56	-0.41	1.31
61	CO272	Main member	21.03	-2.55	-2.1	-1.08	4.87
	CO272	Continuous member	19.42	-0.81	2.32	-1.85	-0.59
	CO272	Connected member	5.47	-0.04	-0.14	-0.23	0.02
	CO272	Connected member	-2.32	-0.2	-0.6	-0.55	1.33



::LAV/team::

Page: 305/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO273	Main member	50.86	-2.57	0.3	0.31	4.84
	CO273	Continuous member	67.94	-0.74	-1.79	0.5	-0.48
	CO273	Connected member	2.78	-0.02	0.01	0.15	-0.06
61	CO273	Connected member	24.19	-0.19	-0.37	0.03	1.25
	CO274	Main member	63.59	-1.76	0.27	0.31	3.61
	CO274	Continuous member	77.75	-0.65	-1.73	0.42	-0.45
61	CO274	Connected member	4.73	-0.07	-0.04	0.07	0.09
	CO274	Connected member	19.71	-0.2	-0.36	0.03	1.34
	CO275	Main member	-56.82	0.26	-2.48	-1.09	-0.2
61	CO275	Continuous member	-54.66	-0.07	2.69	-1.48	-0.06
	CO275	Connected member	-3.25	-0.02	0.02	0.06	0
	CO275	Connected member	3.87	-0.03	-0.62	-0.46	0.33
61	CO276	Main member	-74.31	0.24	-5.06	-3.19	-0.16
	CO276	Continuous member	-69.97	-0.08	7.03	-4.33	-0.1
	CO276	Connected member	-22.96	-0.02	-0.07	-0.23	0
61	CO276	Connected member	10.65	-0.04	-0.76	-0.91	0.34
	CO277	Main member	-68.26	0.25	-2.43	-1.22	-0.18
	CO277	Continuous member	-68.53	-0.09	3.38	-1.85	-0.11
61	CO277	Connected member	-10.27	-0.01	-0.01	-0.03	0
	CO277	Connected member	1.58	-0.04	-0.67	-0.6	0.34
	CO278	Main member	-45.12	0.24	-0.6	0.18	-0.18
61	CO278	Continuous member	-25.13	-0.06	-0.13	0.7	-0.05
	CO278	Connected member	-16.31	-0.02	0.17	0.43	-0.01
	CO278	Connected member	30.84	-0.04	-0.41	0.09	0.32
61	CO279	Main member	-10.13	-2.55	-2.33	-1.12	4.93
	CO279	Continuous member	-24.32	-0.87	3.46	-2.27	-0.68
	CO279	Connected member	7.17	-0.05	-0.19	-0.36	0.06
61	CO279	Connected member	-20.35	-0.2	-0.71	-0.79	1.39
	CO280	Main member	29.19	-2.57	-0.14	0.64	4.87
	CO280	Continuous member	33.64	-0.77	-0.58	0.69	-0.53
61	CO280	Connected member	5.36	-0.03	-0.02	0.1	-0.02
	CO280	Connected member	5.87	-0.2	-0.44	-0.06	1.29
	CO281	Main member	29.48	-2.55	0.27	0.4	4.86
61	CO281	Continuous member	34.11	-0.79	-0.94	0.22	-0.58
	CO281	Connected member	5.35	-0.03	-0.05	0.01	-0.01
	CO281	Connected member	6.13	-0.2	-0.47	-0.19	1.31
61	CO282	Main member	59.31	-2.57	2.67	1.78	4.83
	CO282	Continuous member	82.62	-0.72	-5.02	2.56	-0.47
	CO282	Connected member	2.65	-0.02	0.1	0.39	-0.1
61	CO282	Connected member	32.63	-0.19	-0.24	0.38	1.22
	CO283	Main member	72.04	-1.77	2.63	1.78	3.6
	CO283	Continuous member	92.43	-0.64	-4.97	2.47	-0.44
61	CO283	Connected member	4.6	-0.06	0.05	0.31	0.06
	CO283	Connected member	28.14	-0.2	-0.23	0.38	1.32
	CO284	Main member	-48.34	0.26	-0.1	0.41	-0.2
61	CO284	Continuous member	-39.93	-0.07	-0.58	0.62	-0.06
	CO284	Connected member	-3.35	-0.01	0.11	0.3	0
	CO284	Connected member	12.32	-0.03	-0.5	-0.1	0.33
61	CO285	Main member	-65.82	0.24	-2.68	-1.68	-0.16
	CO285	Continuous member	-55.24	-0.08	3.74	-2.21	-0.1
	CO285	Connected member	-23.05	-0.01	0.02	0.02	-0.01
61	CO285	Connected member	19.09	-0.04	-0.63	-0.55	0.34
	CO286	Main member	-68.11	0.25	-2.45	-1.28	-0.18
	CO286	Continuous member	-67.41	-0.09	3.44	-1.91	-0.11
61	CO286	Connected member	-11.46	-0.01	-0.01	-0.03	0
	CO286	Connected member	3.16	-0.04	-0.67	-0.6	0.34
	CO287	Main member	-44.97	0.24	-0.62	0.13	-0.17
61	CO287	Continuous member	-24.01	-0.06	-0.08	0.65	-0.05
	CO287	Connected member	-17.49	-0.02	0.17	0.43	-0.01
	CO287	Connected member	32.42	-0.04	-0.4	0.09	0.32
61	CO288	Main member	-9.99	-2.55	-2.35	-1.18	4.93
	CO288	Continuous member	-23.2	-0.87	3.51	-2.33	-0.68
	CO288	Connected member	5.98	-0.05	-0.19	-0.36	0.06
61	CO288	Connected member	-18.77	-0.2	-0.71	-0.79	1.39
	CO289	Main member	29.34	-2.57	-0.16	0.59	4.87
	CO289	Continuous member	34.76	-0.77	-0.53	0.63	-0.53
61	CO289	Connected member	4.18	-0.03	-0.02	0.1	-0.02
	CO289	Connected member	7.45	-0.2	-0.43	-0.06	1.28
	CO290	Main member	29.63	-2.55	0.24	0.35	4.86
61	CO290	Continuous member	35.23	-0.79	-0.88	0.17	-0.58
	CO290	Connected member	4.17	-0.03	-0.05	0.01	-0.02
	CO290	Connected member	7.71	-0.2	-0.47	-0.19	1.31
61	CO291	Main member	59.45	-2.57	2.64	1.72	4.83
	CO291	Continuous member	83.74	-0.72	-4.97	2.5	-0.47
	CO291	Connected member	1.47	-0.02	0.1	0.39	-0.1
61	CO291	Connected member	34.21	-0.19	-0.24	0.38	1.22
	CO292	Main member	72.19	-1.77	2.61	1.73	3.6
	CO292	Continuous member	93.55	-0.64	-4.92	2.41	-0.44
61	CO292	Connected member	3.42	-0.06	0.05	0.3	0.06
	CO292	Connected member	29.72	-0.2	-0.23	0.38	1.32
	CO293	Main member	-48.19	0.26	-0.13	0.35	-0.2
61	CO293	Continuous member	-38.81	-0.07	-0.53	0.56	-0.06
	CO293	Connected member	-4.54	-0.01	0.11	0.3	0
	CO293	Connected member	13.9	-0.03	-0.49	-0.1	0.33
61	CO294	Main member	-65.67	0.24	-2.71	-1.74	-0.15
	CO294	Continuous member	-54.12	-0.08	3.79	-2.27	-0.1
	CO294	Connected member	-24.24	-0.01	0.02	0.01	-0.01
61	CO294	Connected member	20.67	-0.04	-0.63	-0.55	0.34
	CO295	Main member	-65.42	0.25	-1.78	-0.82	-0.18
	CO295	Continuous member	-63.8	-0.09	2.5	-1.29	-0.11
61	CO295	Connected member	-10.53	-0.01	0.02	0.04	0
	CO295	Connected member	4.2	-0.04	-0.64	-0.51	0.34
	CO296	Main member	-42.28	0.24	0.05	0.58	-0.18
61	CO296	Continuous member	-20.4	-0.06	-1.01	1.26	-0.04



::LAV/team::

Page: 306/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO296	Connected member	-16.57	-0.02	0.19	0.49	-0.01
	CO296	Connected member	33.45	-0.04	-0.37	0.18	0.32
	CO297	Main member	-7.3	-2.55	-1.68	-0.73	4.93
61	CO297	Continuous member	-19.59	-0.86	2.58	-1.72	-0.68
	CO297	Connected member	6.91	-0.04	-0.16	-0.29	0.05
	CO297	Connected member	-17.74	-0.2	-0.68	-0.7	1.38
61	CO298	Main member	32.02	-2.57	0.51	1.03	4.87
	CO298	Continuous member	38.36	-0.77	-1.46	1.23	-0.53
	CO298	Connected member	5.1	-0.03	0.01	0.16	-0.03
61	CO298	Connected member	8.48	-0.2	-0.4	0.03	1.28
	CO299	Main member	32.31	-2.55	0.91	0.79	4.86
	CO299	Continuous member	38.83	-0.79	-1.81	0.77	-0.57
61	CO299	Connected member	5.09	-0.03	-0.03	0.07	-0.02
	CO299	Connected member	8.74	-0.2	-0.44	-0.1	1.3
61	CO300	Main member	62.14	-2.57	3.31	2.17	4.83
	CO300	Continuous member	87.34	-0.72	-5.89	3.1	-0.46
	CO300	Connected member	2.38	-0.01	0.12	0.45	-0.11
61	CO300	Connected member	35.24	-0.19	-0.21	0.48	1.22
	CO301	Main member	74.87	-1.77	3.28	2.17	3.6
	CO301	Continuous member	97.15	-0.64	-5.83	3.01	-0.43
61	CO301	Connected member	4.34	-0.06	0.07	0.37	0.06
	CO301	Connected member	30.75	-0.2	-0.2	0.48	1.31
	CO302	Main member	-45.5	0.26	0.54	0.8	-0.2
61	CO302	Continuous member	-35.2	-0.07	-1.46	1.17	-0.06
	CO302	Connected member	-3.62	-0.01	0.13	0.36	0
	CO302	Connected member	14.93	-0.03	-0.46	0	0.33
61	CO303	Main member	-62.98	0.24	-2.03	-1.28	-0.16
	CO303	Continuous member	-50.5	-0.08	2.86	-1.66	-0.1
	CO303	Connected member	-23.31	-0.01	0.04	0.08	-0.01
61	CO303	Connected member	21.71	-0.04	-0.59	-0.45	0.34
	CO304	Main member	-65.27	0.25	-1.81	-0.88	-0.18
	CO304	Continuous member	-62.68	-0.09	2.55	-1.35	-0.11
61	CO304	Connected member	-11.72	-0.01	0.02	0.03	0
	CO304	Connected member	5.78	-0.04	-0.64	-0.51	0.34
61	CO305	Main member	-42.13	0.24	0.02	0.52	-0.17
	CO305	Continuous member	-19.28	-0.06	-0.96	1.2	-0.05
	CO305	Connected member	-17.76	-0.02	0.19	0.49	-0.01
61	CO305	Connected member	35.03	-0.04	-0.37	0.18	0.32
	CO306	Main member	-7.15	-2.55	-1.71	-0.78	4.93
	CO306	Continuous member	-18.47	-0.86	2.64	-1.78	-0.68
61	CO306	Connected member	5.72	-0.04	-0.16	-0.3	0.05
	CO306	Connected member	-16.16	-0.2	-0.67	-0.7	1.38
61	CO307	Main member	32.17	-2.57	0.48	0.98	4.86
	CO307	Continuous member	39.48	-0.77	-1.4	1.18	-0.53
	CO307	Connected member	3.91	-0.03	0.01	0.16	-0.03
61	CO307	Connected member	10.06	-0.2	-0.4	0.03	1.28
	CO308	Main member	32.46	-2.55	0.88	0.74	4.86
	CO308	Continuous member	39.95	-0.79	-1.76	0.71	-0.57
61	CO308	Connected member	3.9	-0.03	-0.03	0.07	-0.03
	CO308	Connected member	10.32	-0.2	-0.44	-0.1	1.3
61	CO309	Main member	62.29	-2.57	3.28	2.11	4.83
	CO309	Continuous member	88.46	-0.72	-5.84	3.04	-0.46
	CO309	Connected member	1.2	-0.01	0.12	0.45	-0.11
61	CO309	Connected member	36.82	-0.19	-0.2	0.48	1.22
	CO310	Main member	75.02	-1.77	3.25	2.12	3.6
	CO310	Continuous member	98.27	-0.64	-5.78	2.95	-0.43
61	CO310	Connected member	3.15	-0.06	0.07	0.36	0.05
	CO310	Connected member	32.33	-0.2	-0.2	0.47	1.31
61	CO311	Main member	-45.35	0.26	0.51	0.75	-0.2
	CO311	Continuous member	-34.08	-0.07	-1.41	1.11	-0.06
	CO311	Connected member	-4.8	-0.01	0.13	0.36	0
61	CO311	Connected member	16.51	-0.03	-0.46	0	0.33
	CO312	Main member	-62.83	0.24	-2.06	-1.34	-0.15
	CO312	Continuous member	-49.38	-0.08	2.91	-1.71	-0.1
61	CO312	Connected member	-24.5	-0.01	0.04	0.08	-0.01
	CO312	Connected member	23.29	-0.04	-0.59	-0.46	0.34
61	CO313	Main member	-9.92	0.01	-0.3	0.06	-0.01
	CO313	Continuous member	-16.22	0	0.68	-0.45	-0.01
	CO313	Connected member	4.02	0	-0.07	-0.09	0.01
61	CO313	Connected member	-9.19	0	-0.48	-0.42	0.01
	CO314	Main member	-18.53	0.01	-2.64	-1.38	-0.01
	CO314	Continuous member	-32.05	-0.01	3.9	-2.49	-0.01
61	CO314	Connected member	5.33	0	-0.16	-0.34	0.01
	CO314	Connected member	-19.24	0	-0.6	-0.77	0.02
61	CO315	Main member	-21.36	0.01	-3.29	-1.77	-0.01
	CO315	Continuous member	-36.78	-0.01	4.78	-3.04	-0.01
	CO315	Connected member	5.6	0	-0.18	-0.4	0.01
61	CO315	Connected member	-21.85	0	-0.63	-0.87	0.02
	CO316	Main member	-12.76	0.01	-0.94	-0.33	-0.01
	CO316	Continuous member	-20.95	0	1.56	-1	-0.01
61	CO316	Connected member	4.29	0	-0.09	-0.16	0.01
	CO316	Connected member	-11.81	0	-0.51	-0.51	0.01
61	CO317	Main member	-30.93	0.01	-5.07	-2.87	-0.01
	CO317	Continuous member	-51.25	-0.01	7.2	-4.56	-0.01
	CO317	Connected member	6	0	-0.25	-0.56	0.01
61	CO317	Connected member	-28.58	0	-0.72	-1.13	0.02
	CO318	Main member	-39.53	0.01	-7.42	-4.32	-0.02
	CO318	Continuous member	-67.08	-0.01	10.43	-6.61	-0.01
61	CO318	Connected member	7.3	0	-0.34	-0.81	0.01
	CO318	Connected member	-38.63	0	-0.84	-1.48	0.02
61	CO319	Main member	-42.37	0.01	-8.07	-4.72	-0.02
	CO319	Continuous member	-71.82	-0.01	11.31	-7.17	-0.01
	CO319	Connected member	7.56	0	-0.37	-0.87	0.01
61	CO319	Connected member	-41.25	0	-0.87	-1.58	0.02



::LAVteam::

Page: 307/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO320	Main member	-33.76	0.01	-5.71	-3.27	-0.02
	CO320	Continuous member	-55.98	-0.01	8.08	-5.12	-0.01
	CO320	Connected member	6.26	0	-0.27	-0.63	0.01
61	CO320	Connected member	-31.2	0	-0.75	-1.22	0.02
	CO321	Main member	-44.79	0.01	-8.62	-5.06	-0.02
	CO321	Continuous member	-75.85	-0.01	12.07	-7.65	-0.01
61	CO321	Connected member	7.79	0	-0.39	-0.93	0.01
	CO321	Connected member	-43.49	0	-0.9	-1.66	0.02
	CO322	Main member	-44.64	0.01	-8.64	-5.11	-0.02
61	CO322	Continuous member	-74.73	-0.01	12.12	-7.71	-0.01
	CO322	Connected member	6.6	0	-0.39	-0.93	0.01
	CO322	Connected member	-41.9	0	-0.9	-1.67	0.02
61	CO323	Main member	-47.62	0.01	-9.26	-5.46	-0.02
	CO323	Continuous member	-80.58	-0.01	12.95	-8.21	-0.01
	CO323	Connected member	8.05	0	-0.41	-0.99	0.01
61	CO323	Connected member	-46.11	0	-0.93	-1.76	0.02
	CO324	Main member	-47.48	0.01	-9.29	-5.51	-0.02
	CO324	Continuous member	-79.46	-0.01	13	-8.27	-0.01
61	CO324	Connected member	6.87	0	-0.41	-1	0.01
	CO324	Connected member	-44.52	0	-0.93	-1.76	0.02
61	CO325	Main member	-39.01	0.01	-6.91	-4	-0.02
	CO325	Continuous member	-64.74	-0.01	9.71	-6.15	-0.01
	CO325	Connected member	6.75	0	-0.32	-0.75	0.01
61	CO325	Connected member	-36.05	0	-0.81	-1.4	0.02
	CO326	Main member	-38.87	0.01	-6.94	-4.06	-0.02
	CO326	Continuous member	-63.62	-0.01	9.77	-6.21	-0.01
61	CO326	Connected member	5.57	0	-0.32	-0.75	0.01
	CO326	Connected member	-34.47	0	-0.81	-1.4	0.02
61	CO327	Main member	-72.89	0.15	-8.73	-5.18	-0.12
	CO327	Continuous member	-95.76	-0.06	12.06	-7.46	-0.07
	CO327	Connected member	-2.12	-0.01	-0.29	-0.76	0.01
61	CO327	Connected member	-30.58	-0.02	-0.87	-1.53	0.21
	CO328	Main member	-59.03	0.15	-7.63	-4.31	-0.11
	CO328	Continuous member	-69.72	-0.04	9.93	-5.91	-0.03
61	CO328	Connected member	-5.75	-0.01	-0.18	-0.48	0.01
	CO328	Connected member	-13	-0.02	-0.72	-1.11	0.2
61	CO329	Main member	-37.98	-1.53	-8.67	-5.1	2.99
	CO329	Continuous member	-69.2	-0.56	12.08	-7.7	-0.45
	CO329	Connected member	8.37	-0.04	-0.41	-0.96	0.09
61	CO329	Connected member	-43.76	-0.12	-0.88	-1.63	0.88
	CO330	Main member	-14.38	-1.54	-7.35	-4.02	2.97
	CO330	Continuous member	-34.4	-0.51	9.62	-5.87	-0.38
61	CO330	Connected member	7.3	-0.03	-0.3	-0.68	0.06
	CO330	Connected member	-28	-0.12	-0.72	-1.19	0.83
61	CO331	Main member	-14.2	-1.53	-7.1	-4.16	2.97
	CO331	Continuous member	-34.11	-0.52	9.41	-6.16	-0.4
	CO331	Connected member	7.29	-0.03	-0.32	-0.73	0.06
61	CO331	Connected member	-27.85	-0.12	-0.74	-1.27	0.84
	CO332	Main member	3.71	-1.54	-5.65	-3.31	2.95
	CO332	Continuous member	-4.98	-0.49	6.91	-4.71	-0.35
61	CO332	Connected member	5.68	-0.03	-0.23	-0.49	0.02
	CO332	Connected member	-11.92	-0.12	-0.61	-0.91	0.81
61	CO333	Main member	11.34	-1.07	-5.67	-3.3	2.23
	CO333	Continuous member	0.91	-0.43	6.94	-4.76	-0.32
	CO333	Connected member	6.85	-0.05	-0.26	-0.54	0.1
61	CO333	Connected member	-14.6	-0.12	-0.6	-0.91	0.85
	CO334	Main member	-60.95	0.16	-7.33	-4.18	-0.13
	CO334	Continuous member	-78.6	-0.04	9.66	-5.96	-0.04
61	CO334	Connected member	2.04	-0.01	-0.22	-0.56	0.01
	CO334	Connected member	-24.13	-0.02	-0.76	-1.22	0.21
61	CO335	Main member	-71.44	0.14	-8.88	-5.45	-0.1
	CO335	Continuous member	-87.8	-0.05	12.27	-7.68	-0.07
	CO335	Connected member	-9.8	-0.01	-0.27	-0.73	0
61	CO335	Connected member	-20.07	-0.02	-0.84	-1.5	0.21
	CO336	Main member	-72.75	0.15	-8.76	-5.23	-0.11
	CO336	Continuous member	-94.65	-0.06	12.11	-7.52	-0.07
61	CO336	Connected member	-3.31	-0.01	-0.29	-0.76	0.01
	CO336	Connected member	-29	-0.02	-0.87	-1.53	0.21
61	CO337	Main member	-58.88	0.15	-7.66	-4.37	-0.11
	CO337	Continuous member	-68.6	-0.04	9.98	-5.97	-0.03
	CO337	Connected member	-6.94	-0.01	-0.18	-0.48	0.01
61	CO337	Connected member	-11.42	-0.02	-0.71	-1.12	0.2
	CO338	Main member	-37.83	-1.53	-8.7	-5.16	2.98
	CO338	Continuous member	-68.08	-0.55	12.14	-7.75	-0.45
61	CO338	Connected member	7.19	-0.04	-0.41	-0.96	0.08
	CO338	Connected member	-42.18	-0.12	-0.88	-1.64	0.88
61	CO339	Main member	-14.23	-1.54	-7.37	-4.07	2.97
	CO339	Continuous member	-33.28	-0.51	9.67	-5.93	-0.38
	CO339	Connected member	6.11	-0.03	-0.3	-0.68	0.05
61	CO339	Connected member	-26.42	-0.12	-0.72	-1.19	0.83
	CO340	Main member	-14.06	-1.53	-7.13	-4.22	2.97
	CO340	Continuous member	-33	-0.52	9.46	-6.21	-0.4
61	CO340	Connected member	6.11	-0.03	-0.32	-0.73	0.06
	CO340	Connected member	-26.26	-0.12	-0.74	-1.27	0.84
61	CO341	Main member	3.85	-1.54	-5.68	-3.36	2.95
	CO341	Continuous member	-3.86	-0.49	6.96	-4.77	-0.34
	CO341	Connected member	4.5	-0.03	-0.23	-0.49	0.02
61	CO341	Connected member	-10.34	-0.12	-0.61	-0.92	0.8
	CO342	Main member	11.48	-1.07	-5.7	-3.36	2.22
	CO342	Continuous member	2.03	-0.43	6.99	-4.81	-0.32
61	CO342	Connected member	5.66	-0.05	-0.26	-0.54	0.1
	CO342	Connected member	-13.02	-0.12	-0.6	-0.91	0.84
61	CO343	Main member	-60.8	0.16	-7.36	-4.24	-0.13
	CO343	Continuous member	-77.48	-0.05	9.71	-6.02	-0.04



::LAV/team::

Page: 308/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO343	Connected member	0.85	-0.01	-0.22	-0.56	0.01
	CO343	Connected member	-22.55	-0.02	-0.76	-1.23	0.21
	CO344	Main member	-71.3	0.14	-8.91	-5.51	-0.1
61	CO344	Continuous member	-86.68	-0.05	12.32	-7.74	-0.07
	CO344	Connected member	-10.99	-0.01	-0.27	-0.74	0
	CO344	Connected member	-18.48	-0.02	-0.84	-1.5	0.21
61	CO345	Main member	-75.73	0.15	-9.38	-5.58	-0.12
	CO345	Continuous member	-100.5	-0.06	12.95	-8.03	-0.07
	CO345	Connected member	-1.86	-0.01	-0.32	-0.83	0.01
61	CO345	Connected member	-33.2	-0.02	-0.9	-1.63	0.22
	CO346	Main member	-61.87	0.15	-8.27	-4.71	-0.11
	CO346	Continuous member	-74.46	-0.04	10.81	-6.47	-0.03
61	CO346	Connected member	-5.49	-0.01	-0.21	-0.54	0.01
	CO346	Connected member	-15.62	-0.02	-0.75	-1.21	0.2
	CO347	Main member	-40.81	-1.53	-9.32	-5.5	2.99
61	CO347	Continuous member	-73.93	-0.56	12.97	-8.26	-0.46
	CO347	Connected member	8.64	-0.04	-0.43	-1.02	0.09
	CO347	Connected member	-46.38	-0.12	-0.91	-1.73	0.88
61	CO348	Main member	-17.21	-1.54	-7.99	-4.41	2.97
	CO348	Continuous member	-39.13	-0.51	10.5	-6.43	-0.38
	CO348	Connected member	7.56	-0.03	-0.32	-0.74	0.06
61	CO348	Connected member	-30.62	-0.12	-0.75	-1.28	0.83
	CO349	Main member	-17.04	-1.53	-7.75	-4.56	2.97
	CO349	Continuous member	-38.84	-0.53	10.29	-6.71	-0.41
61	CO349	Connected member	7.56	-0.03	-0.34	-0.79	0.06
	CO349	Connected member	-30.46	-0.12	-0.78	-1.36	0.85
61	CO350	Main member	0.87	-1.54	-6.29	-3.7	2.96
	CO350	Continuous member	-9.7	-0.49	7.79	-5.26	-0.35
	CO350	Connected member	5.95	-0.03	-0.25	-0.55	0.03
61	CO350	Connected member	-14.54	-0.12	-0.64	-1.01	0.81
	CO351	Main member	8.5	-1.07	-6.31	-3.7	2.23
	CO351	Continuous member	-3.81	-0.43	7.82	-5.31	-0.32
61	CO351	Connected member	7.11	-0.05	-0.28	-0.61	0.11
	CO351	Connected member	-17.22	-0.12	-0.64	-1.01	0.85
	CO352	Main member	-63.79	0.16	-7.98	-4.58	-0.13
61	CO352	Continuous member	-83.33	-0.04	10.54	-6.52	-0.04
	CO352	Connected member	2.3	-0.01	-0.25	-0.62	0.01
	CO352	Connected member	-26.75	-0.02	-0.8	-1.32	0.21
61	CO353	Main member	-74.28	0.14	-9.53	-5.85	-0.1
	CO353	Continuous member	-92.53	-0.05	13.16	-8.25	-0.07
	CO353	Connected member	-9.54	-0.01	-0.3	-0.8	0.01
61	CO353	Connected member	-22.68	-0.02	-0.88	-1.6	0.21
	CO354	Main member	-75.59	0.15	-9.41	-5.63	-0.11
	CO354	Continuous member	-99.38	-0.06	13	-8.09	-0.07
61	CO354	Connected member	-3.04	-0.01	-0.32	-0.83	0.01
	CO354	Connected member	-31.62	-0.02	-0.9	-1.63	0.22
	CO355	Main member	-61.72	0.15	-8.3	-4.77	-0.11
61	CO355	Continuous member	-73.34	-0.04	10.86	-6.53	-0.03
	CO355	Connected member	-6.67	-0.01	-0.21	-0.55	0.01
	CO355	Connected member	-14.04	-0.02	-0.75	-1.21	0.2
61	CO356	Main member	-40.67	-1.53	-9.34	-5.56	2.99
	CO356	Continuous member	-72.81	-0.56	13.02	-8.32	-0.46
	CO356	Connected member	7.45	-0.04	-0.43	-1.03	0.09
61	CO356	Connected member	-44.8	-0.12	-0.91	-1.73	0.88
	CO357	Main member	-17.07	-1.54	-8.02	-4.47	2.97
	CO357	Continuous member	-38.01	-0.51	10.55	-6.49	-0.38
61	CO357	Connected member	6.38	-0.03	-0.32	-0.74	0.06
	CO357	Connected member	-29.04	-0.12	-0.75	-1.28	0.83
	CO358	Main member	-16.89	-1.53	-7.77	-4.61	2.97
61	CO358	Continuous member	-37.72	-0.53	10.34	-6.77	-0.41
	CO358	Connected member	6.37	-0.03	-0.34	-0.79	0.06
	CO358	Connected member	-28.88	-0.12	-0.77	-1.36	0.85
61	CO359	Main member	1.02	-1.54	-6.32	-3.76	2.95
	CO359	Continuous member	-8.58	-0.49	7.84	-5.32	-0.35
	CO359	Connected member	4.76	-0.03	-0.25	-0.56	0.03
61	CO359	Connected member	-12.96	-0.12	-0.64	-1.01	0.81
	CO360	Main member	8.65	-1.07	-6.34	-3.75	2.23
	CO360	Continuous member	-2.69	-0.43	7.87	-5.37	-0.32
61	CO360	Connected member	5.93	-0.05	-0.28	-0.61	0.11
	CO360	Connected member	-15.64	-0.12	-0.64	-1.01	0.85
	CO361	Main member	-63.64	0.16	-8.01	-4.64	-0.13
61	CO361	Continuous member	-82.21	-0.05	10.59	-6.58	-0.04
	CO361	Connected member	1.11	-0.01	-0.25	-0.63	0.01
	CO361	Connected member	-25.17	-0.02	-0.8	-1.32	0.21
61	CO362	Main member	-74.14	0.14	-9.56	-5.91	-0.1
	CO362	Continuous member	-91.41	-0.05	13.21	-8.31	-0.07
	CO362	Connected member	-10.73	-0.01	-0.3	-0.8	0
61	CO362	Connected member	-21.1	-0.02	-0.88	-1.6	0.21
	CO363	Main member	-67.11	0.15	-7.02	-4.12	-0.11
	CO363	Continuous member	-84.65	-0.06	9.7	-5.96	-0.07
61	CO363	Connected member	-3.15	-0.01	-0.22	-0.58	0
	CO363	Connected member	-23.16	-0.02	-0.78	-1.26	0.21
	CO364	Main member	-53.24	0.15	-5.92	-3.26	-0.11
61	CO364	Continuous member	-58.61	-0.04	7.58	-4.41	-0.03
	CO364	Connected member	-6.78	-0.01	-0.11	-0.3	0
	CO364	Connected member	-5.58	-0.02	-0.63	-0.85	0.2
61	CO365	Main member	-32.2	-1.53	-6.96	-4.05	2.98
	CO365	Continuous member	-58.1	-0.55	9.73	-6.2	-0.44
	CO365	Connected member	7.34	-0.04	-0.33	-0.78	0.07
61	CO365	Connected member	-36.33	-0.12	-0.79	-1.37	0.87
	CO366	Main member	-8.61	-1.54	-5.64	-2.97	2.96
	CO366	Continuous member	-23.3	-0.5	7.27	-4.39	-0.37
61	CO366	Connected member	6.26	-0.03	-0.23	-0.5	0.04
	CO366	Connected member	-20.58	-0.12	-0.63	-0.93	0.82



::LAVteam::

Page: 309/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO367	Main member	-8.43	-1.54	-5.4	-3.11	2.96
	CO367	Continuous member	-23.02	-0.52	7.06	-4.67	-0.4
	CO367	Connected member	6.26	-0.03	-0.25	-0.55	0.04
61	CO367	Connected member	-20.42	-0.12	-0.66	-1.01	0.83
	CO368	Main member	9.47	-1.55	-3.95	-2.26	2.95
	CO368	Continuous member	6.12	-0.48	4.57	-3.23	-0.34
61	CO368	Connected member	4.64	-0.02	-0.16	-0.31	0.01
	CO368	Connected member	-4.5	-0.12	-0.52	-0.65	0.79
	CO369	Main member	17.11	-1.07	-3.97	-2.26	2.22
61	CO369	Continuous member	12	-0.42	4.6	-3.28	-0.31
	CO369	Connected member	5.81	-0.05	-0.19	-0.36	0.09
	CO369	Connected member	-7.19	-0.12	-0.52	-0.65	0.84
61	CO370	Main member	-55.16	0.16	-5.63	-3.13	-0.13
	CO370	Continuous member	-67.49	-0.04	7.3	-4.46	-0.04
	CO370	Connected member	1.01	-0.01	-0.15	-0.38	0
61	CO370	Connected member	-16.71	-0.02	-0.68	-0.96	0.2
	CO371	Main member	-65.66	0.14	-7.18	-4.39	-0.1
	CO371	Continuous member	-76.68	-0.05	9.92	-6.18	-0.06
61	CO371	Connected member	-10.83	-0.01	-0.2	-0.55	0
	CO371	Connected member	-12.64	-0.02	-0.76	-1.24	0.21
	CO372	Main member	-66.96	0.15	-7.05	-4.17	-0.11
61	CO372	Continuous member	-83.53	-0.06	9.75	-6.02	-0.07
	CO372	Connected member	-4.33	-0.01	-0.22	-0.58	0
	CO372	Connected member	-21.58	-0.02	-0.78	-1.27	0.21
61	CO373	Main member	-53.1	0.15	-5.95	-3.32	-0.11
	CO373	Continuous member	-57.49	-0.04	7.63	-4.47	-0.03
	CO373	Connected member	-7.97	-0.01	-0.11	-0.3	0
61	CO373	Connected member	-4	-0.02	-0.62	-0.85	0.2
	CO374	Main member	-32.06	-1.53	-6.99	-4.1	2.98
	CO374	Continuous member	-56.98	-0.55	9.79	-6.26	-0.44
61	CO374	Connected member	6.15	-0.03	-0.33	-0.78	0.07
	CO374	Connected member	-34.75	-0.12	-0.79	-1.37	0.86
	CO375	Main member	-8.46	-1.54	-5.67	-3.02	2.96
61	CO375	Continuous member	-22.18	-0.5	7.33	-4.45	-0.37
	CO375	Connected member	5.07	-0.03	-0.23	-0.5	0.04
	CO375	Connected member	-19	-0.12	-0.63	-0.93	0.82
61	CO376	Main member	-8.28	-1.54	-5.42	-3.17	2.96
	CO376	Continuous member	-21.9	-0.51	7.11	-4.73	-0.4
	CO376	Connected member	5.07	-0.03	-0.25	-0.55	0.04
61	CO376	Connected member	-18.84	-0.12	-0.65	-1.01	0.83
	CO377	Main member	9.62	-1.55	-3.97	-2.32	2.95
	CO377	Continuous member	7.23	-0.48	4.63	-3.29	-0.34
61	CO377	Connected member	3.46	-0.02	-0.16	-0.31	0.01
	CO377	Connected member	-2.92	-0.12	-0.52	-0.66	0.79
	CO378	Main member	17.25	-1.07	-3.99	-2.31	2.22
61	CO378	Continuous member	13.12	-0.42	4.65	-3.33	-0.31
	CO378	Connected member	4.62	-0.05	-0.19	-0.37	0.08
	CO378	Connected member	-5.61	-0.12	-0.51	-0.65	0.83
61	CO379	Main member	-55.02	0.16	-5.65	-3.18	-0.13
	CO379	Continuous member	-66.37	-0.05	7.36	-4.52	-0.04
	CO379	Connected member	-0.18	-0.01	-0.15	-0.38	0
61	CO379	Connected member	-15.13	-0.02	-0.67	-0.96	0.2
	CO380	Main member	-65.51	0.14	-7.2	-4.45	-0.1
	CO380	Continuous member	-75.56	-0.05	9.97	-6.24	-0.07
61	CO380	Connected member	-12.01	-0.01	-0.2	-0.55	0
	CO380	Connected member	-11.06	-0.02	-0.75	-1.24	0.21
	CO381	Main member	-67.63	0.15	-7.54	-4.43	-0.11
61	CO381	Continuous member	-87	-0.06	10.42	-6.42	-0.07
	CO381	Connected member	-2.6	-0.01	-0.25	-0.64	0.01
	CO381	Connected member	-25.74	-0.02	-0.81	-1.35	0.21
61	CO382	Main member	-53.77	0.15	-6.43	-3.58	-0.11
	CO382	Continuous member	-60.96	-0.04	8.29	-4.87	-0.03
	CO382	Connected member	-6.24	-0.01	-0.14	-0.36	0
61	CO382	Connected member	-8.16	-0.02	-0.66	-0.93	0.2
	CO383	Main member	-32.72	-1.53	-7.47	-4.36	2.98
	CO383	Continuous member	-60.44	-0.55	10.45	-6.66	-0.44
61	CO383	Connected member	7.88	-0.04	-0.36	-0.84	0.08
	CO383	Connected member	-38.91	-0.12	-0.82	-1.46	0.87
	CO384	Main member	-9.13	-1.54	-6.15	-3.28	2.96
61	CO384	Continuous member	-25.64	-0.5	7.98	-4.85	-0.37
	CO384	Connected member	6.81	-0.03	-0.25	-0.56	0.04
	CO384	Connected member	-23.16	-0.12	-0.66	-1.01	0.82
61	CO385	Main member	-8.95	-1.53	-5.91	-3.43	2.96
	CO385	Continuous member	-25.36	-0.52	7.77	-5.13	-0.4
	CO385	Connected member	6.8	-0.03	-0.27	-0.61	0.05
61	CO385	Connected member	-23	-0.12	-0.68	-1.09	0.84
	CO386	Main member	8.95	-1.54	-4.46	-2.58	2.95
	CO386	Continuous member	3.78	-0.48	5.28	-3.69	-0.34
61	CO386	Connected member	5.19	-0.02	-0.18	-0.37	0.01
	CO386	Connected member	-7.08	-0.12	-0.55	-0.74	0.8
	CO387	Main member	16.59	-1.07	-4.48	-2.57	2.22
61	CO387	Continuous member	9.66	-0.43	5.31	-3.73	-0.31
	CO387	Connected member	6.35	-0.05	-0.21	-0.43	0.09
	CO387	Connected member	-9.76	-0.12	-0.54	-0.73	0.84
61	CO388	Main member	-55.69	0.16	-6.14	-3.44	-0.13
	CO388	Continuous member	-69.83	-0.04	8.02	-4.93	-0.04
	CO388	Connected member	1.55	-0.01	-0.18	-0.44	0.01
61	CO388	Connected member	-19.28	-0.02	-0.7	-1.04	0.2
	CO389	Main member	-66.18	0.14	-7.69	-4.71	-0.1
	CO389	Continuous member	-79.03	-0.05	10.63	-6.64	-0.06
61	CO389	Connected member	-10.29	-0.01	-0.23	-0.61	0
	CO389	Connected member	-15.22	-0.02	-0.78	-1.32	0.21
	CO390	Main member	-70.47	0.15	-8.18	-4.83	-0.12
61	CO390	Continuous member	-91.73	-0.06	11.3	-6.99	-0.07



::LAV/team::

Page: 310/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO390	Connected member	-2.34	-0.01	-0.27	-0.71	0.01
	CO390	Connected member	-28.35	-0.02	-0.84	-1.45	0.21
	CO391	Main member	-56.61	0.15	-7.08	-3.97	-0.11
61	CO391	Continuous member	-65.69	-0.04	9.17	-5.43	-0.03
	CO391	Connected member	-5.97	-0.01	-0.16	-0.43	0
	CO391	Connected member	-10.77	-0.02	-0.69	-1.03	0.2
61	CO392	Main member	-35.56	-1.53	-8.12	-4.76	2.98
	CO392	Continuous member	-65.17	-0.55	11.33	-7.22	-0.45
	CO392	Connected member	8.15	-0.04	-0.39	-0.9	0.08
61	CO392	Connected member	-41.53	-0.12	-0.85	-1.55	0.87
	CO393	Main member	-11.96	-1.54	-6.8	-3.68	2.96
	CO393	Continuous member	-30.37	-0.51	8.87	-5.4	-0.37
61	CO393	Connected member	7.07	-0.03	-0.28	-0.62	0.05
	CO393	Connected member	-25.77	-0.12	-0.69	-1.1	0.83
	CO394	Main member	-11.78	-1.53	-6.55	-3.82	2.96
61	CO394	Continuous member	-30.09	-0.52	8.65	-5.68	-0.4
	CO394	Connected member	7.07	-0.03	-0.3	-0.67	0.05
	CO394	Connected member	-25.62	-0.12	-0.72	-1.18	0.84
61	CO395	Main member	6.12	-1.54	-5.1	-2.97	2.95
	CO395	Continuous member	-0.95	-0.49	6.16	-4.24	-0.34
	CO395	Connected member	5.45	-0.03	-0.21	-0.44	0.02
61	CO395	Connected member	-9.69	-0.12	-0.58	-0.83	0.8
	CO396	Main member	13.75	-1.07	-5.12	-2.97	2.22
	CO396	Continuous member	4.94	-0.43	6.19	-4.28	-0.31
61	CO396	Connected member	6.62	-0.05	-0.23	-0.49	0.1
	CO396	Connected member	-12.38	-0.12	-0.58	-0.83	0.84
	CO397	Main member	-58.53	0.16	-6.78	-3.84	-0.13
61	CO397	Continuous member	-74.57	-0.04	8.9	-5.49	-0.04
	CO397	Connected member	1.81	-0.01	-0.2	-0.51	0.01
	CO397	Connected member	-21.9	-0.02	-0.74	-1.14	0.21
61	CO398	Main member	-69.02	0.14	-8.33	-5.11	-0.1
	CO398	Continuous member	-83.76	-0.05	11.52	-7.2	-0.07
	CO398	Connected member	-10.02	-0.01	-0.25	-0.68	0
61	CO398	Connected member	-17.84	-0.02	-0.82	-1.42	0.21
	CO399	Main member	-61.85	0.15	-5.83	-3.38	-0.11
	CO399	Continuous member	-75.88	-0.06	8.06	-4.92	-0.07
61	CO399	Connected member	-3.63	-0.01	-0.18	-0.46	0
	CO399	Connected member	-18.31	-0.02	-0.72	-1.09	0.21
	CO400	Main member	-47.98	0.15	-4.73	-2.53	-0.11
61	CO400	Continuous member	-49.85	-0.04	5.94	-3.38	-0.03
	CO400	Connected member	-7.27	-0.01	-0.07	-0.18	0
	CO400	Connected member	-0.74	-0.02	-0.56	-0.67	0.2
61	CO401	Main member	-26.95	-1.53	-5.77	-3.31	2.98
	CO401	Continuous member	-49.34	-0.54	8.1	-5.16	-0.44
	CO401	Connected member	6.85	-0.03	-0.29	-0.66	0.06
61	CO401	Connected member	-31.48	-0.12	-0.73	-1.19	0.86
	CO402	Main member	-3.36	-1.54	-4.45	-2.24	2.96
	CO402	Continuous member	-14.55	-0.5	5.65	-3.36	-0.36
61	CO402	Connected member	5.77	-0.03	-0.18	-0.38	0.03
	CO402	Connected member	-15.74	-0.12	-0.57	-0.75	0.81
	CO403	Main member	-3.18	-1.54	-4.2	-2.38	2.96
61	CO403	Continuous member	-14.26	-0.51	5.44	-3.64	-0.39
	CO403	Connected member	5.76	-0.03	-0.2	-0.43	0.03
	CO403	Connected member	-15.58	-0.12	-0.6	-0.83	0.82
61	CO404	Main member	14.72	-1.55	-2.76	-1.54	2.95
	CO404	Continuous member	14.87	-0.48	2.95	-2.21	-0.33
	CO404	Connected member	4.15	-0.02	-0.11	-0.2	0
61	CO404	Connected member	0.34	-0.12	-0.46	-0.48	0.78
	CO405	Main member	22.36	-1.07	-2.78	-1.53	2.22
	CO405	Continuous member	20.76	-0.42	2.98	-2.26	-0.31
61	CO405	Connected member	5.32	-0.04	-0.14	-0.25	0.08
	CO405	Connected member	-2.35	-0.12	-0.46	-0.48	0.83
	CO406	Main member	-49.91	0.16	-4.43	-2.39	-0.13
61	CO406	Continuous member	-58.72	-0.04	5.67	-3.43	-0.04
	CO406	Connected member	0.52	-0.01	-0.11	-0.26	0
	CO406	Connected member	-11.86	-0.02	-0.61	-0.78	0.2
61	CO407	Main member	-60.4	0.14	-5.98	-3.66	-0.1
	CO407	Continuous member	-67.91	-0.05	8.28	-5.14	-0.06
	CO407	Connected member	-11.31	-0.01	-0.16	-0.43	0
61	CO407	Connected member	-7.8	-0.02	-0.69	-1.06	0.21
	CO408	Main member	-36.18	0.01	-6.26	-3.6	-0.02
	CO408	Continuous member	-60.01	-0.01	8.83	-5.59	-0.01
61	CO408	Connected member	6.49	0	-0.29	-0.68	0.01
	CO408	Connected member	-33.43	0	-0.78	-1.3	0.02
	CO409	Main member	-36.03	0.01	-6.29	-3.66	-0.01
61	CO409	Continuous member	-58.89	-0.01	8.88	-5.65	-0.01
	CO409	Connected member	5.3	0	-0.29	-0.68	0.01
	CO409	Connected member	-31.85	0	-0.78	-1.31	0.02
61	CO410	Main member	-64.27	0.15	-6.38	-3.72	-0.11
	CO410	Continuous member	-79.92	-0.06	8.82	-5.4	-0.07
	CO410	Connected member	-3.41	-0.01	-0.2	-0.52	0
61	CO410	Connected member	-20.54	-0.02	-0.75	-1.17	0.21
	CO411	Main member	-50.4	0.15	-5.28	-2.86	-0.11
	CO411	Continuous member	-53.88	-0.04	6.69	-3.85	-0.03
61	CO411	Connected member	-7.04	-0.01	-0.09	-0.24	0
	CO411	Connected member	-2.97	-0.02	-0.59	-0.75	0.2
	CO412	Main member	-29.37	-1.53	-6.32	-3.65	2.98
61	CO412	Continuous member	-53.37	-0.54	8.85	-5.64	-0.44
	CO412	Connected member	7.07	-0.03	-0.31	-0.71	0.06
	CO412	Connected member	-33.71	-0.12	-0.76	-1.28	0.86
61	CO413	Main member	-5.77	-1.54	-5	-2.57	2.96
	CO413	Continuous member	-18.57	-0.5	6.39	-3.83	-0.36
	CO413	Connected member	6	-0.03	-0.2	-0.43	0.03
	CO413	Connected member	-17.96	-0.12	-0.6	-0.83	0.81



::LAVteam::

Page: 311/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO414	Main member	-5.59	-1.54	-4.75	-2.72	2.96
	CO414	Continuous member	-18.29	-0.51	6.18	-4.11	-0.39
	CO414	Connected member	5.99	-0.03	-0.22	-0.48	0.03
61	CO414	Connected member	-17.81	-0.12	-0.62	-0.91	0.83
	CO415	Main member	12.31	-1.55	-3.3	-1.87	2.95
	CO415	Continuous member	10.84	-0.48	3.7	-2.68	-0.33
61	CO415	Connected member	4.38	-0.02	-0.13	-0.25	0
	CO415	Connected member	-1.89	-0.12	-0.49	-0.56	0.79
	CO416	Main member	19.94	-1.07	-3.32	-1.87	2.22
61	CO416	Continuous member	16.73	-0.42	3.73	-2.73	-0.31
	CO416	Connected member	5.54	-0.05	-0.16	-0.3	0.08
	CO416	Connected member	-4.57	-0.12	-0.48	-0.56	0.83
61	CO417	Main member	-52.32	0.16	-4.98	-2.73	-0.13
	CO417	Continuous member	-62.76	-0.04	6.42	-3.91	-0.04
	CO417	Connected member	0.74	-0.01	-0.13	-0.31	0
61	CO417	Connected member	-14.09	-0.02	-0.64	-0.86	0.2
	CO418	Main member	-62.82	0.14	-6.53	-4	-0.1
	CO418	Continuous member	-71.95	-0.05	9.03	-5.62	-0.06
61	CO418	Connected member	-11.09	-0.01	-0.18	-0.49	0
	CO418	Connected member	-10.03	-0.02	-0.72	-1.14	0.21
	CO419	Main member	-64.12	0.15	-6.41	-3.77	-0.11
61	CO419	Continuous member	-78.8	-0.06	8.87	-5.46	-0.07
	CO419	Connected member	-4.6	-0.01	-0.2	-0.52	0
	CO419	Connected member	-18.96	-0.02	-0.74	-1.17	0.21
61	CO420	Main member	-50.26	0.15	-5.3	-2.92	-0.11
	CO420	Continuous member	-52.76	-0.04	6.74	-3.91	-0.03
	CO420	Connected member	-8.23	-0.01	-0.09	-0.24	0
61	CO420	Connected member	-1.38	-0.02	-0.59	-0.76	0.2
	CO421	Main member	-29.22	-1.53	-6.34	-3.71	2.98
	CO421	Continuous member	-52.25	-0.54	8.9	-5.7	-0.44
61	CO421	Connected member	5.89	-0.03	-0.31	-0.71	0.06
	CO421	Connected member	-32.13	-0.12	-0.76	-1.28	0.86
	CO422	Main member	-5.63	-1.54	-5.02	-2.63	2.96
61	CO422	Continuous member	-17.46	-0.5	6.45	-3.89	-0.36
	CO422	Connected member	4.81	-0.03	-0.2	-0.43	0.03
	CO422	Connected member	-16.38	-0.12	-0.6	-0.83	0.81
61	CO423	Main member	-5.45	-1.54	-4.78	-2.77	2.96
	CO423	Continuous member	-17.17	-0.51	6.24	-4.17	-0.39
	CO423	Connected member	4.8	-0.03	-0.22	-0.49	0.03
61	CO423	Connected member	-16.23	-0.12	-0.62	-0.91	0.83
	CO424	Main member	12.45	-1.55	-3.33	-1.93	2.95
	CO424	Continuous member	11.96	-0.48	3.75	-2.74	-0.33
61	CO424	Connected member	3.19	-0.02	-0.13	-0.25	0
	CO424	Connected member	-0.31	-0.12	-0.49	-0.56	0.79
61	CO425	Main member	20.09	-1.07	-3.35	-1.92	2.22
	CO425	Continuous member	17.85	-0.42	3.78	-2.78	-0.31
	CO425	Connected member	4.36	-0.05	-0.16	-0.3	0.08
61	CO425	Connected member	-2.99	-0.12	-0.48	-0.56	0.83
	CO426	Main member	-52.18	0.16	-5.01	-2.79	-0.13
	CO426	Continuous member	-61.64	-0.05	6.47	-3.97	-0.04
61	CO426	Connected member	-0.45	-0.01	-0.13	-0.32	0
	CO426	Connected member	-12.51	-0.02	-0.64	-0.87	0.2
	CO427	Main member	-62.67	0.14	-6.56	-4.05	-0.1
61	CO427	Continuous member	-70.83	-0.05	9.08	-5.68	-0.07
	CO427	Connected member	-12.28	-0.01	-0.18	-0.49	0
	CO427	Connected member	-8.44	-0.02	-0.72	-1.14	0.21
61	CO428	Main member	-59.01	0.15	-5.18	-2.98	-0.11
	CO428	Continuous member	-71.15	-0.06	7.18	-4.36	-0.07
	CO428	Connected member	-3.9	-0.01	-0.15	-0.4	0
61	CO428	Connected member	-15.69	-0.02	-0.69	-0.99	0.21
	CO429	Main member	-45.14	0.15	-4.08	-2.13	-0.11
	CO429	Continuous member	-45.11	-0.04	5.06	-2.82	-0.03
61	CO429	Connected member	-7.53	-0.01	-0.05	-0.12	0
	CO429	Connected member	1.88	-0.02	-0.53	-0.57	0.2
	CO430	Main member	-24.12	-1.53	-5.12	-2.92	2.97
61	CO430	Continuous member	-44.61	-0.54	7.22	-4.61	-0.43
	CO430	Connected member	6.58	-0.03	-0.26	-0.59	0.05
	CO430	Connected member	-28.87	-0.12	-0.7	-1.1	0.85
61	CO431	Main member	-0.52	-1.54	-3.8	-1.84	2.96
	CO431	Continuous member	-9.82	-0.49	4.77	-2.81	-0.36
	CO431	Connected member	5.5	-0.03	-0.16	-0.31	0.02
61	CO431	Connected member	-13.12	-0.12	-0.54	-0.65	0.8
	CO432	Main member	-0.34	-1.54	-3.56	-1.99	2.96
	CO432	Continuous member	-9.53	-0.51	4.56	-3.09	-0.38
61	CO432	Connected member	5.5	-0.03	-0.18	-0.37	0.02
	CO432	Connected member	-12.96	-0.12	-0.56	-0.73	0.82
	CO433	Main member	17.56	-1.55	-2.11	-1.14	2.94
61	CO433	Continuous member	19.59	-0.47	2.08	-1.66	-0.33
	CO433	Connected member	3.88	-0.02	-0.09	-0.13	-0.01
	CO433	Connected member	2.95	-0.12	-0.43	-0.38	0.78
61	CO434	Main member	25.19	-1.07	-2.13	-1.14	2.22
	CO434	Continuous member	25.48	-0.42	2.11	-1.71	-0.3
	CO434	Connected member	5.05	-0.04	-0.12	-0.19	0.07
61	CO434	Connected member	0.27	-0.12	-0.42	-0.38	0.83
	CO435	Main member	-47.07	0.16	-3.79	-2	-0.13
	CO435	Continuous member	-53.99	-0.04	4.79	-2.88	-0.04
61	CO435	Connected member	0.25	-0.01	-0.08	-0.2	0
	CO435	Connected member	-9.25	-0.02	-0.58	-0.68	0.2
	CO436	Main member	-57.56	0.14	-5.34	-3.26	-0.1
61	CO436	Continuous member	-63.18	-0.05	7.39	-4.58	-0.06
	CO436	Connected member	-11.57	-0.01	-0.14	-0.37	0
	CO436	Connected member	-5.18	-0.02	-0.66	-0.96	0.21
61	CO437	Main member	-20.42	0.01	-2.68	-1.4	-0.01
	CO437	Continuous member	-33.73	-0.01	3.93	-2.5	-0.01



::LAVteam::

Page: 312/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO437	Connected member	5.01	0	-0.16	-0.33	0.01
	CO437	Connected member	-18.89	0	-0.6	-0.77	0.02
	CO438	Main member	-20.13	0.01	-2.74	-1.51	-0.01
61	CO438	Continuous member	-31.5	-0.01	4.04	-2.62	-0.01
	CO438	Connected member	2.64	0	-0.16	-0.33	0.01
	CO438	Connected member	-15.72	0	-0.6	-0.78	0.02
61	CO439	Main member	-29.03	0.01	-5.03	-2.84	-0.01
	CO439	Continuous member	-49.56	-0.01	7.16	-4.54	-0.01
	CO439	Connected member	6.31	0	-0.25	-0.57	0.01
61	CO439	Connected member	-28.93	0	-0.72	-1.13	0.02
	CO440	Main member	-28.74	0.01	-5.09	-2.95	-0.01
	CO440	Continuous member	-47.33	-0.01	7.26	-4.66	-0.01
61	CO440	Connected member	3.94	0	-0.25	-0.58	0.01
	CO440	Connected member	-25.77	0	-0.72	-1.13	0.02
	CO441	Main member	-31.87	0.01	-5.68	-3.24	-0.02
61	CO441	Continuous member	-54.29	-0.01	8.04	-5.1	-0.01
	CO441	Connected member	6.58	0	-0.28	-0.64	0.01
	CO441	Connected member	-31.55	0	-0.76	-1.22	0.02
61	CO442	Main member	-31.58	0.01	-5.73	-3.35	-0.01
	CO442	Continuous member	-52.06	-0.01	8.14	-5.22	-0.01
	CO442	Connected member	4.2	0	-0.28	-0.64	0.01
61	CO442	Connected member	-28.38	0	-0.75	-1.23	0.02
	CO443	Main member	-23.26	0.01	-3.33	-1.79	-0.01
	CO443	Continuous member	-38.46	-0.01	4.81	-3.05	-0.01
61	CO443	Connected member	5.28	0	-0.18	-0.39	0.01
	CO443	Connected member	-21.51	0	-0.63	-0.87	0.02
	CO444	Main member	-22.97	0.01	-3.38	-1.9	-0.01
61	CO444	Continuous member	-36.22	-0.01	4.92	-3.17	-0.01
	CO444	Connected member	2.9	0	-0.18	-0.4	0.01
	CO444	Connected member	-18.34	0	-0.63	-0.87	0.02
61	CO445	Main member	-57.11	0.15	-5.15	-2.96	-0.11
	CO445	Continuous member	-69.46	-0.06	7.14	-4.35	-0.07
	CO445	Connected member	-3.58	-0.01	-0.16	-0.4	0
61	CO445	Connected member	-16.04	-0.02	-0.69	-0.99	0.21
	CO446	Main member	-43.25	0.15	-4.05	-2.11	-0.11
	CO446	Continuous member	-43.43	-0.04	5.02	-2.81	-0.03
61	CO446	Connected member	-7.21	-0.01	-0.05	-0.13	0
	CO446	Connected member	1.53	-0.02	-0.53	-0.58	0.2
	CO447	Main member	-22.22	-1.53	-5.08	-2.89	2.97
61	CO447	Continuous member	-42.92	-0.54	7.18	-4.59	-0.43
	CO447	Connected member	6.9	-0.03	-0.27	-0.6	0.05
	CO447	Connected member	-29.21	-0.12	-0.7	-1.1	0.85
61	CO448	Main member	1.37	-1.54	-3.77	-1.82	2.95
	CO448	Continuous member	-8.13	-0.49	4.73	-2.79	-0.35
	CO448	Connected member	5.82	-0.03	-0.16	-0.32	0.02
61	CO448	Connected member	-13.47	-0.12	-0.54	-0.66	0.8
	CO449	Main member	1.55	-1.53	-3.52	-1.96	2.95
	CO449	Continuous member	-7.85	-0.5	4.52	-3.07	-0.38
61	CO449	Connected member	5.81	-0.03	-0.18	-0.38	0.02
	CO449	Connected member	-13.31	-0.12	-0.56	-0.74	0.82
	CO450	Main member	19.45	-1.55	-2.08	-1.12	2.94
61	CO450	Continuous member	21.28	-0.47	2.04	-1.65	-0.32
	CO450	Connected member	4.2	-0.02	-0.09	-0.14	-0.01
	CO450	Connected member	2.61	-0.12	-0.43	-0.39	0.78
61	CO451	Main member	27.09	-1.07	-2.1	-1.12	2.21
	CO451	Continuous member	27.16	-0.42	2.07	-1.69	-0.3
	CO451	Connected member	5.37	-0.04	-0.12	-0.19	0.07
61	CO451	Connected member	-0.08	-0.12	-0.42	-0.38	0.83
	CO452	Main member	-45.17	0.16	-3.75	-1.97	-0.13
	CO452	Continuous member	-52.31	-0.04	4.75	-2.86	-0.04
61	CO452	Connected member	0.57	-0.01	-0.09	-0.2	0
	CO452	Connected member	-9.59	-0.02	-0.58	-0.69	0.2
	CO453	Main member	-55.66	0.14	-5.3	-3.23	-0.1
61	CO453	Continuous member	-61.49	-0.05	7.35	-4.57	-0.06
	CO453	Connected member	-11.26	-0.01	-0.14	-0.38	0
	CO453	Connected member	-5.53	-0.02	-0.66	-0.96	0.21
61	CO454	Main member	-56.82	0.15	-5.2	-3.07	-0.11
	CO454	Continuous member	-67.23	-0.06	7.24	-4.47	-0.07
	CO454	Connected member	-5.95	-0.01	-0.16	-0.41	0
61	CO454	Connected member	-12.88	-0.02	-0.68	-1	0.21
	CO455	Main member	-42.95	0.15	-4.1	-2.21	-0.11
	CO455	Continuous member	-41.19	-0.04	5.13	-2.92	-0.03
61	CO455	Connected member	-9.58	-0.01	-0.05	-0.13	0
	CO455	Connected member	4.69	-0.02	-0.53	-0.58	0.2
	CO456	Main member	-21.93	-1.53	-5.14	-3	2.97
61	CO456	Continuous member	-40.69	-0.54	7.28	-4.71	-0.43
	CO456	Connected member	4.53	-0.03	-0.27	-0.61	0.05
	CO456	Connected member	-26.05	-0.12	-0.7	-1.1	0.85
61	CO457	Main member	1.67	-1.54	-3.82	-1.93	2.95
	CO457	Continuous member	-5.9	-0.49	4.83	-2.91	-0.35
	CO457	Connected member	3.45	-0.03	-0.16	-0.33	0.02
61	CO457	Connected member	-10.3	-0.12	-0.54	-0.66	0.8
	CO458	Main member	1.84	-1.53	-3.58	-2.07	2.95
	CO458	Continuous member	-5.61	-0.5	4.62	-3.19	-0.38
61	CO458	Connected member	3.44	-0.03	-0.18	-0.38	0.02
	CO458	Connected member	-10.15	-0.12	-0.56	-0.74	0.82
	CO459	Main member	19.75	-1.55	-2.13	-1.23	2.94
61	CO459	Continuous member	23.51	-0.47	2.14	-1.76	-0.32
	CO459	Connected member	1.83	-0.02	-0.09	-0.15	-0.01
	CO459	Connected member	5.77	-0.12	-0.42	-0.39	0.78
61	CO460	Main member	27.38	-1.07	-2.15	-1.22	2.21
	CO460	Continuous member	29.4	-0.42	2.17	-1.81	-0.3
	CO460	Connected member	3	-0.04	-0.12	-0.2	0.07
	CO460	Connected member	3.08	-0.12	-0.42	-0.39	0.83



::LAVteam::

Page: 313/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO461	Main member	-44.88	0.16	-3.81	-2.08	-0.12
	CO461	Continuous member	-50.07	-0.05	4.86	-2.98	-0.04
	CO461	Connected member	-1.8	-0.01	-0.09	-0.21	0
61	CO461	Connected member	-6.43	-0.02	-0.58	-0.69	0.2
	CO462	Main member	-55.37	0.14	-5.35	-3.34	-0.1
	CO462	Continuous member	-59.26	-0.05	7.46	-4.69	-0.07
61	CO462	Connected member	-13.63	-0.01	-0.14	-0.38	0
	CO462	Connected member	-2.37	-0.02	-0.66	-0.96	0.21
	CO463	Main member	-59.95	0.15	-5.79	-3.35	-0.11
61	CO463	Continuous member	-74.2	-0.06	8.02	-4.91	-0.07
	CO463	Connected member	-3.32	-0.01	-0.18	-0.47	0
	CO463	Connected member	-18.66	-0.02	-0.72	-1.09	0.21
61	CO464	Main member	-46.09	0.15	-4.69	-2.5	-0.11
	CO464	Continuous member	-48.16	-0.04	5.9	-3.36	-0.03
	CO464	Connected member	-6.95	-0.01	-0.07	-0.19	0
61	CO464	Connected member	-1.09	-0.02	-0.56	-0.67	0.2
	CO465	Main member	-25.06	-1.53	-5.73	-3.29	2.97
	CO465	Continuous member	-47.65	-0.54	8.06	-5.15	-0.43
61	CO465	Connected member	7.17	-0.03	-0.29	-0.67	0.06
	CO465	Connected member	-31.83	-0.12	-0.73	-1.2	0.86
	CO466	Main member	-1.46	-1.54	-4.41	-2.21	2.96
61	CO466	Continuous member	-12.86	-0.49	5.61	-3.35	-0.36
	CO466	Connected member	6.09	-0.03	-0.19	-0.39	0.03
	CO466	Connected member	-16.08	-0.12	-0.57	-0.75	0.81
61	CO467	Main member	-1.28	-1.53	-4.17	-2.36	2.95
	CO467	Continuous member	-12.58	-0.51	5.4	-3.63	-0.39
	CO467	Connected member	6.08	-0.03	-0.21	-0.44	0.03
61	CO467	Connected member	-15.93	-0.12	-0.6	-0.83	0.82
	CO468	Main member	16.62	-1.55	-2.72	-1.51	2.94
	CO468	Continuous member	16.55	-0.48	2.92	-2.2	-0.33
61	CO468	Connected member	4.47	-0.02	-0.12	-0.21	0
	CO468	Connected member	-0.01	-0.12	-0.46	-0.48	0.79
61	CO469	Main member	24.25	-1.07	-2.74	-1.51	2.22
	CO469	Continuous member	22.44	-0.42	2.94	-2.24	-0.3
	CO469	Connected member	5.63	-0.05	-0.15	-0.26	0.08
61	CO469	Connected member	-2.69	-0.12	-0.46	-0.48	0.83
	CO470	Main member	-48.01	0.16	-4.4	-2.37	-0.13
61	CO470	Continuous member	-57.04	-0.04	5.63	-3.42	-0.04
	CO470	Connected member	0.83	-0.01	-0.11	-0.27	0
	CO470	Connected member	-12.21	-0.02	-0.61	-0.78	0.2
61	CO471	Main member	-58.5	0.14	-5.94	-3.63	-0.1
	CO471	Continuous member	-66.23	-0.05	8.24	-5.13	-0.06
	CO471	Connected member	-10.99	-0.01	-0.16	-0.44	0
61	CO471	Connected member	-8.14	-0.02	-0.69	-1.06	0.21
	CO472	Main member	-59.66	0.15	-5.85	-3.46	-0.11
	CO472	Continuous member	-71.96	-0.06	8.13	-5.03	-0.07
61	CO472	Connected member	-5.69	-0.01	-0.18	-0.47	0
	CO472	Connected member	-15.49	-0.02	-0.72	-1.09	0.21
	CO473	Main member	-45.79	0.15	-4.74	-2.61	-0.11
61	CO473	Continuous member	-45.92	-0.04	6.01	-3.48	-0.03
	CO473	Connected member	-9.32	-0.01	-0.07	-0.19	0
	CO473	Connected member	2.08	-0.02	-0.56	-0.68	0.2
61	CO474	Main member	-24.77	-1.53	-5.78	-3.4	2.97
	CO474	Continuous member	-45.42	-0.54	8.16	-5.27	-0.43
	CO474	Connected member	4.79	-0.03	-0.29	-0.67	0.06
61	CO474	Connected member	-28.66	-0.12	-0.73	-1.2	0.86
	CO475	Main member	-1.17	-1.54	-4.46	-2.32	2.95
	CO475	Continuous member	-10.63	-0.49	5.71	-3.46	-0.36
61	CO475	Connected member	3.71	-0.03	-0.19	-0.39	0.03
	CO475	Connected member	-12.92	-0.12	-0.57	-0.76	0.81
61	CO476	Main member	-0.99	-1.53	-4.22	-2.47	2.95
	CO476	Continuous member	-10.34	-0.51	5.5	-3.74	-0.38
	CO476	Connected member	3.71	-0.03	-0.21	-0.44	0.03
61	CO476	Connected member	-12.76	-0.12	-0.59	-0.84	0.82
	CO477	Main member	16.91	-1.55	-2.77	-1.62	2.94
	CO477	Continuous member	18.79	-0.47	3.02	-2.31	-0.33
61	CO477	Connected member	2.1	-0.02	-0.12	-0.21	0
	CO477	Connected member	3.15	-0.12	-0.46	-0.48	0.78
	CO478	Main member	24.54	-1.07	-2.79	-1.62	2.21
61	CO478	Continuous member	24.68	-0.42	3.05	-2.36	-0.3
	CO478	Connected member	3.26	-0.04	-0.15	-0.26	0.08
	CO478	Connected member	0.47	-0.12	-0.45	-0.48	0.83
61	CO479	Main member	-47.72	0.16	-4.45	-2.48	-0.12
	CO479	Continuous member	-54.8	-0.05	5.74	-3.54	-0.04
	CO479	Connected member	-1.54	-0.01	-0.11	-0.27	0
61	CO479	Connected member	-9.05	-0.02	-0.61	-0.79	0.2
	CO480	Main member	-58.21	0.14	-6	-3.74	-0.1
	CO480	Continuous member	-63.99	-0.05	8.34	-5.24	-0.07
61	CO480	Connected member	-13.37	-0.01	-0.16	-0.44	0
	CO480	Connected member	-4.98	-0.02	-0.69	-1.06	0.21
	CO481	Main member	-51.33	0.15	-3.44	-1.9	-0.11
61	CO481	Continuous member	-58.35	-0.06	4.79	-2.85	-0.07
	CO481	Connected member	-4.61	-0.01	-0.09	-0.22	0
	CO481	Connected member	-8.62	-0.02	-0.6	-0.73	0.21
61	CO482	Main member	-37.46	0.15	-2.34	-1.06	-0.11
	CO482	Continuous member	-32.32	-0.04	2.68	-1.32	-0.03
	CO482	Connected member	-8.24	-0.01	0.02	0.05	0
61	CO482	Connected member	8.95	-0.02	-0.44	-0.31	0.2
	CO483	Main member	-16.45	-1.53	-3.38	-1.84	2.97
	CO483	Continuous member	-31.82	-0.53	4.84	-3.1	-0.42
61	CO483	Connected member	5.86	-0.03	-0.2	-0.42	0.03
	CO483	Connected member	-21.79	-0.12	-0.61	-0.84	0.84
	CO484	Main member	7.14	-1.54	-2.06	-0.78	2.95
	CO484	Continuous member	2.96	-0.48	2.4	-1.32	-0.35



::LAVteam::

Page: 314/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO484	Connected member	4.78	-0.02	-0.09	-0.14	0.01
	CO484	Connected member	-6.05	-0.12	-0.45	-0.4	0.79
	CO485	Main member	7.32	-1.54	-1.82	-0.92	2.95
61	CO485	Continuous member	3.24	-0.5	2.19	-1.6	-0.37
	CO485	Connected member	4.78	-0.02	-0.11	-0.2	0.01
	CO485	Connected member	-5.89	-0.12	-0.47	-0.48	0.81
61	CO486	Main member	25.22	-1.55	-0.37	-0.08	2.94
	CO486	Continuous member	32.37	-0.47	-0.29	-0.18	-0.32
	CO486	Connected member	3.16	-0.02	-0.02	0.03	-0.02
61	CO486	Connected member	10.02	-0.12	-0.34	-0.13	0.77
	CO487	Main member	32.85	-1.07	-0.4	-0.08	2.21
	CO487	Continuous member	38.25	-0.41	-0.26	-0.23	-0.3
61	CO487	Connected member	4.33	-0.04	-0.05	-0.02	0.06
	CO487	Connected member	7.33	-0.12	-0.33	-0.13	0.82
	CO488	Main member	-39.39	0.16	-2.05	-0.92	-0.13
61	CO488	Continuous member	-41.2	-0.04	2.41	-1.37	-0.04
	CO488	Connected member	-0.46	-0.01	-0.02	-0.03	0
	CO488	Connected member	-2.17	-0.02	-0.49	-0.43	0.2
61	CO489	Main member	-49.88	0.14	-3.59	-2.18	-0.1
	CO489	Continuous member	-50.38	-0.05	5.01	-3.07	-0.06
	CO489	Connected member	-12.28	-0.01	-0.07	-0.2	0
61	CO489	Connected member	1.89	-0.02	-0.57	-0.7	0.21
	CO490	Main member	-51.04	0.15	-3.49	-2.01	-0.11
	CO490	Continuous member	-56.12	-0.06	4.9	-2.97	-0.07
61	CO490	Connected member	-6.98	-0.01	-0.09	-0.23	0
	CO490	Connected member	-5.46	-0.02	-0.59	-0.73	0.21
	CO491	Main member	-37.17	0.14	-2.4	-1.17	-0.11
61	CO491	Continuous member	-30.08	-0.04	2.78	-1.44	-0.03
	CO491	Connected member	-10.61	-0.01	0.02	0.05	0
	CO491	Connected member	12.11	-0.02	-0.43	-0.32	0.2
61	CO492	Main member	-16.16	-1.53	-3.43	-1.95	2.96
	CO492	Continuous member	-29.59	-0.53	4.94	-3.22	-0.42
	CO492	Connected member	3.49	-0.03	-0.2	-0.43	0.03
61	CO492	Connected member	-18.63	-0.12	-0.61	-0.84	0.84
	CO493	Main member	7.44	-1.54	-2.12	-0.88	2.95
	CO493	Continuous member	5.2	-0.48	2.5	-1.43	-0.35
61	CO493	Connected member	2.41	-0.02	-0.09	-0.15	0
	CO493	Connected member	-2.89	-0.12	-0.45	-0.4	0.79
	CO494	Main member	7.61	-1.54	-1.87	-1.03	2.95
61	CO494	Continuous member	5.48	-0.5	2.29	-1.71	-0.37
	CO494	Connected member	2.4	-0.02	-0.11	-0.2	0
	CO494	Connected member	-2.73	-0.12	-0.47	-0.48	0.8
61	CO495	Main member	25.51	-1.55	-0.43	-0.19	2.94
	CO495	Continuous member	34.6	-0.46	-0.18	-0.29	-0.32
	CO495	Connected member	0.79	-0.02	-0.02	0.03	-0.03
61	CO495	Connected member	13.18	-0.12	-0.33	-0.13	0.77
	CO496	Main member	33.15	-1.07	-0.45	-0.19	2.21
	CO496	Continuous member	40.49	-0.41	-0.15	-0.34	-0.3
61	CO496	Connected member	1.96	-0.04	-0.05	-0.02	0.06
	CO496	Connected member	10.49	-0.12	-0.33	-0.13	0.82
	CO497	Main member	-39.1	0.16	-2.1	-1.03	-0.12
61	CO497	Continuous member	-38.96	-0.05	2.51	-1.49	-0.04
	CO497	Connected member	-2.83	-0.01	-0.02	-0.03	0
	CO497	Connected member	0.99	-0.02	-0.49	-0.43	0.2
61	CO498	Main member	-49.58	0.14	-3.65	-2.29	-0.09
	CO498	Continuous member	-48.14	-0.05	5.11	-3.19	-0.06
	CO498	Connected member	-14.65	-0.01	-0.07	-0.2	0
61	CO498	Connected member	5.05	-0.02	-0.57	-0.7	0.21
	CO499	Main member	-48.49	0.15	-2.79	-1.51	-0.11
	CO499	Continuous member	-53.62	-0.06	3.91	-2.3	-0.07
61	CO499	Connected member	-4.87	-0.01	-0.06	-0.16	0
	CO499	Connected member	-6.01	-0.02	-0.56	-0.63	0.21
	CO500	Main member	-34.62	0.15	-1.7	-0.66	-0.11
61	CO500	Continuous member	-27.59	-0.04	1.8	-0.77	-0.03
	CO500	Connected member	-8.51	-0.01	0.04	0.12	0
	CO500	Connected member	11.56	-0.02	-0.4	-0.22	0.2
61	CO501	Main member	-13.62	-1.53	-2.74	-1.45	2.96
	CO501	Continuous member	-27.09	-0.53	3.96	-2.55	-0.42
	CO501	Connected member	5.6	-0.03	-0.17	-0.36	0.03
61	CO501	Connected member	-19.17	-0.12	-0.58	-0.74	0.84
	CO502	Main member	9.98	-1.54	-1.42	-0.38	2.95
	CO502	Continuous member	7.69	-0.48	1.52	-0.77	-0.34
61	CO502	Connected member	4.52	-0.02	-0.07	-0.08	0
	CO502	Connected member	-3.43	-0.12	-0.42	-0.3	0.79
	CO503	Main member	10.15	-1.54	-1.18	-0.53	2.95
61	CO503	Continuous member	7.97	-0.49	1.31	-1.04	-0.37
	CO503	Connected member	4.51	-0.02	-0.09	-0.13	0
	CO503	Connected member	-3.28	-0.12	-0.44	-0.38	0.8
61	CO504	Main member	28.06	-1.55	0.27	0.31	2.94
	CO504	Continuous member	37.09	-0.46	-1.16	0.37	-0.31
	CO504	Connected member	2.89	-0.02	0	0.1	-0.03
61	CO504	Connected member	12.63	-0.12	-0.3	-0.03	0.76
	CO505	Main member	35.69	-1.07	0.25	0.31	2.21
	CO505	Continuous member	42.98	-0.41	-1.13	0.32	-0.29
61	CO505	Connected member	4.06	-0.04	-0.03	0.04	0.05
	CO505	Connected member	9.94	-0.12	-0.3	-0.03	0.81
	CO506	Main member	-36.55	0.16	-1.4	-0.53	-0.12
61	CO506	Continuous member	-36.47	-0.04	1.53	-0.82	-0.04
	CO506	Connected member	-0.73	-0.01	0.01	0.04	0
	CO506	Connected member	0.44	-0.02	-0.46	-0.33	0.2
61	CO507	Main member	-47.04	0.14	-2.95	-1.78	-0.1
	CO507	Continuous member	-45.65	-0.05	4.12	-2.52	-0.06
	CO507	Connected member	-12.55	-0.01	-0.05	-0.13	0
	CO507	Connected member	4.51	-0.02	-0.54	-0.6	0.21



::LAVteam::

Page: 315/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO508	Main member	-48.2	0.15	-2.85	-1.62	-0.11
	CO508	Continuous member	-51.38	-0.06	4.01	-2.42	-0.07
	CO508	Connected member	-7.24	-0.01	-0.07	-0.16	0
61	CO508	Connected member	-2.84	-0.02	-0.56	-0.64	0.21
	CO509	Main member	-34.33	0.14	-1.75	-0.77	-0.1
	CO509	Continuous member	-25.35	-0.04	1.9	-0.88	-0.03
61	CO509	Connected member	-10.88	-0.01	0.04	0.11	0
	CO509	Connected member	14.72	-0.02	-0.4	-0.22	0.2
	CO510	Main member	-13.32	-1.53	-2.79	-1.56	2.96
61	CO510	Continuous member	-24.86	-0.52	4.06	-2.67	-0.42
	CO510	Connected member	3.23	-0.03	-0.17	-0.36	0.03
	CO510	Connected member	-16.01	-0.12	-0.58	-0.75	0.83
61	CO511	Main member	10.27	-1.54	-1.47	-0.49	2.95
	CO511	Continuous member	9.92	-0.48	1.62	-0.88	-0.34
	CO511	Connected member	2.14	-0.02	-0.07	-0.09	0
61	CO511	Connected member	-0.27	-0.12	-0.41	-0.31	0.79
	CO512	Main member	10.45	-1.54	-1.23	-0.64	2.95
	CO512	Continuous member	10.21	-0.49	1.41	-1.16	-0.37
61	CO512	Connected member	2.14	-0.02	-0.09	-0.14	0
	CO512	Connected member	-0.12	-0.12	-0.44	-0.39	0.8
61	CO513	Main member	28.35	-1.55	0.21	0.2	2.93
	CO513	Continuous member	39.33	-0.46	-1.06	0.26	-0.31
	CO513	Connected member	0.52	-0.02	0	0.09	-0.03
61	CO513	Connected member	15.8	-0.12	-0.3	-0.04	0.76
	CO514	Main member	35.98	-1.07	0.19	0.2	2.21
	CO514	Continuous member	45.21	-0.41	-1.03	0.21	-0.29
61	CO514	Connected member	1.69	-0.04	-0.03	0.04	0.05
	CO514	Connected member	13.1	-0.12	-0.29	-0.04	0.81
61	CO515	Main member	-36.26	0.16	-1.46	-0.64	-0.12
	CO515	Continuous member	-34.23	-0.05	1.63	-0.94	-0.04
	CO515	Connected member	-3.1	-0.01	0.01	0.03	0
61	CO515	Connected member	3.6	-0.02	-0.45	-0.33	0.2
	CO516	Main member	-46.74	0.14	-3	-1.89	-0.09
	CO516	Continuous member	-43.41	-0.05	4.23	-2.63	-0.06
61	CO516	Connected member	-14.92	-0.01	-0.05	-0.14	0
	CO516	Connected member	7.67	-0.02	-0.53	-0.6	0.21
61	CO517	Main member	-56.67	0.25	-0.48	-0.11	-0.18
	CO517	Continuous member	-49.35	-0.09	0.63	-0.1	-0.11
	CO517	Connected member	-12.42	-0.01	0.08	0.18	-0.01
61	CO517	Connected member	12.25	-0.04	-0.41	-0.18	0.34
	CO518	Main member	-33.53	0.24	1.34	1.28	-0.17
	CO518	Continuous member	-5.95	-0.06	-2.87	2.43	-0.04
61	CO518	Connected member	-18.46	-0.01	0.26	0.64	-0.01
	CO518	Connected member	41.49	-0.04	-0.14	0.51	0.32
61	CO519	Main member	1.42	-2.55	-0.39	-0.02	4.91
	CO519	Continuous member	-5.16	-0.85	0.72	-0.54	-0.66
	CO519	Connected member	5	-0.04	-0.1	-0.15	0.02
61	CO519	Connected member	-9.68	-0.2	-0.45	-0.37	1.36
	CO520	Main member	40.74	-2.57	1.8	1.73	4.85
	CO520	Continuous member	52.78	-0.75	-3.3	2.4	-0.51
61	CO520	Connected member	3.19	-0.02	0.07	0.31	-0.05
	CO520	Connected member	16.53	-0.2	-0.17	0.35	1.25
61	CO521	Main member	41.03	-2.55	2.2	1.49	4.85
	CO521	Continuous member	53.25	-0.77	-3.66	1.94	-0.55
	CO521	Connected member	3.18	-0.02	0.04	0.22	-0.05
61	CO521	Connected member	16.79	-0.2	-0.21	0.22	1.28
	CO522	Main member	70.86	-2.58	4.6	2.86	4.82
	CO522	Continuous member	101.75	-0.7	-7.73	4.25	-0.44
61	CO522	Connected member	0.48	-0.01	0.19	0.6	-0.14
	CO522	Connected member	43.28	-0.19	0.03	0.79	1.19
61	CO523	Main member	83.59	-1.77	4.56	2.86	3.59
	CO523	Continuous member	111.56	-0.63	-7.67	4.16	-0.42
	CO523	Connected member	2.43	-0.05	0.14	0.51	0.03
61	CO523	Connected member	38.79	-0.2	0.03	0.79	1.29
	CO524	Main member	-36.75	0.26	1.83	1.51	-0.2
	CO524	Continuous member	-20.76	-0.07	-3.32	2.34	-0.06
61	CO524	Connected member	-5.51	-0.01	0.2	0.51	-0.01
	CO524	Connected member	22.97	-0.03	-0.23	0.32	0.32
61	CO525	Main member	-54.22	0.24	-0.74	-0.57	-0.15
	CO525	Continuous member	-36.05	-0.08	0.99	-0.47	-0.1
	CO525	Connected member	-25.19	-0.01	0.11	0.23	-0.01
61	CO525	Connected member	29.75	-0.04	-0.36	-0.13	0.34
	CO526	Main member	-65.3	0.25	-2.83	-1.56	-0.18
	CO526	Continuous member	-65.2	-0.09	3.86	-2.15	-0.11
61	CO526	Connected member	-11.13	-0.01	-0.01	-0.06	-0.01
	CO526	Connected member	2.22	-0.03	-0.54	-0.54	0.34
61	CO527	Main member	-42.16	0.24	-1	-0.15	-0.17
	CO527	Continuous member	-21.79	-0.06	0.34	0.4	-0.04
	CO527	Connected member	-17.17	-0.01	0.17	0.4	-0.01
61	CO527	Connected member	31.47	-0.04	-0.27	0.15	0.32
	CO528	Main member	-7.18	-2.54	-2.73	-1.46	4.92
	CO528	Continuous member	-20.98	-0.86	3.93	-2.57	-0.67
61	CO528	Connected member	6.31	-0.05	-0.19	-0.39	0.06
	CO528	Connected member	-19.71	-0.2	-0.57	-0.73	1.38
61	CO529	Main member	32.14	-2.56	-0.54	0.31	4.86
	CO529	Continuous member	36.97	-0.77	-0.11	0.39	-0.52
	CO529	Connected member	4.5	-0.03	-0.02	0.07	-0.01
61	CO529	Connected member	6.51	-0.2	-0.3	0	1.28
	CO530	Main member	32.43	-2.55	-0.14	0.07	4.85
	CO530	Continuous member	37.44	-0.79	-0.46	-0.07	-0.57
61	CO530	Connected member	4.49	-0.03	-0.05	-0.02	-0.01
	CO530	Connected member	6.77	-0.2	-0.34	-0.13	1.3
61	CO531	Main member	62.26	-2.57	2.26	1.44	4.82
	CO531	Continuous member	85.95	-0.72	-4.55	2.26	-0.46



::LAV/team::

Page: 316/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO531	Connected member	1.79	-0.02	0.1	0.36	-0.1
	CO531	Connected member	33.27	-0.19	-0.1	0.45	1.22
	CO532	Main member	74.99	-1.76	2.23	1.45	3.6
61	CO532	Continuous member	95.76	-0.63	-4.5	2.17	-0.43
	CO532	Connected member	3.74	-0.06	0.05	0.28	0.06
	CO532	Connected member	28.78	-0.2	-0.1	0.45	1.31
61	CO533	Main member	-45.38	0.26	-0.51	0.07	-0.2
	CO533	Continuous member	-36.6	-0.07	-0.11	0.31	-0.06
	CO533	Connected member	-4.21	-0.01	0.11	0.27	-0.01
61	CO533	Connected member	12.95	-0.03	-0.36	-0.04	0.33
	CO534	Main member	-62.86	0.24	-3.08	-2.02	-0.15
	CO534	Continuous member	-51.9	-0.08	4.21	-2.51	-0.1
61	CO534	Connected member	-23.91	-0.01	0.02	-0.01	-0.01
	CO534	Connected member	19.73	-0.04	-0.49	-0.49	0.34
	CO535	Main member	-68.14	0.25	-3.48	-1.95	-0.18
61	CO535	Continuous member	-69.93	-0.09	4.74	-2.71	-0.11
	CO535	Connected member	-10.87	-0.01	-0.03	-0.12	0
	CO535	Connected member	-0.4	-0.03	-0.57	-0.64	0.34
61	CO536	Main member	-45	0.24	-1.65	-0.54	-0.17
	CO536	Continuous member	-26.53	-0.06	1.22	-0.15	-0.04
	CO536	Connected member	-16.9	-0.01	0.14	0.34	-0.01
61	CO536	Connected member	28.86	-0.04	-0.3	0.05	0.32
	CO537	Main member	-10.02	-2.54	-3.38	-1.85	4.93
	CO537	Continuous member	-25.71	-0.87	4.81	-3.12	-0.68
61	CO537	Connected member	6.57	-0.05	-0.21	-0.45	0.07
	CO537	Connected member	-22.32	-0.2	-0.6	-0.82	1.39
	CO538	Main member	29.31	-2.56	-1.19	-0.08	4.87
61	CO538	Continuous member	32.25	-0.77	0.76	-0.16	-0.53
	CO538	Connected member	4.77	-0.03	-0.04	0.01	-0.01
	CO538	Connected member	3.9	-0.2	-0.33	-0.09	1.29
61	CO539	Main member	29.6	-2.55	-0.78	-0.33	4.86
	CO539	Continuous member	32.72	-0.79	0.41	-0.62	-0.58
	CO539	Connected member	4.76	-0.03	-0.08	-0.08	0
61	CO539	Connected member	4.16	-0.2	-0.37	-0.22	1.31
	CO540	Main member	59.43	-2.57	1.62	1.06	4.83
	CO540	Continuous member	81.23	-0.72	-3.68	1.71	-0.46
61	CO540	Connected member	2.06	-0.02	0.07	0.3	-0.09
	CO540	Connected member	30.66	-0.19	-0.14	0.35	1.23
	CO541	Main member	72.15	-1.76	1.58	1.06	3.6
61	CO541	Continuous member	91.04	-0.64	-3.63	1.63	-0.43
	CO541	Connected member	4.01	-0.06	0.03	0.22	0.07
	CO541	Connected member	26.17	-0.2	-0.13	0.35	1.32
61	CO542	Main member	-48.23	0.26	-1.16	-0.32	-0.2
	CO542	Continuous member	-41.33	-0.07	0.77	-0.24	-0.06
	CO542	Connected member	-3.95	-0.01	0.09	0.21	0
61	CO542	Connected member	10.34	-0.03	-0.39	-0.13	0.33
	CO543	Main member	-65.7	0.24	-3.73	-2.41	-0.15
	CO543	Continuous member	-56.64	-0.08	5.1	-3.07	-0.1
61	CO543	Connected member	-23.65	-0.01	0	-0.08	-0.01
	CO543	Connected member	17.11	-0.04	-0.53	-0.59	0.34
	CO544	Main member	-59.51	0.25	-1.13	-0.51	-0.18
61	CO544	Continuous member	-54.08	-0.09	1.51	-0.66	-0.11
	CO544	Connected member	-12.15	-0.01	0.06	0.12	-0.01
	CO544	Connected member	9.63	-0.04	-0.44	-0.28	0.34
61	CO545	Main member	-36.37	0.24	0.7	0.89	-0.17
	CO545	Continuous member	-10.68	-0.06	-1.99	1.88	-0.04
	CO545	Connected member	-18.19	-0.01	0.23	0.58	-0.01
61	CO545	Connected member	38.88	-0.04	-0.17	0.41	0.32
	CO546	Main member	-1.41	-2.55	-1.03	-0.42	4.92
	CO546	Continuous member	-9.89	-0.85	1.6	-1.09	-0.66
61	CO546	Connected member	5.27	-0.04	-0.12	-0.21	0.03
	CO546	Connected member	-12.29	-0.2	-0.48	-0.47	1.36
	CO547	Main member	37.91	-2.57	1.16	1.34	4.86
61	CO547	Continuous member	48.06	-0.75	-2.43	1.85	-0.51
	CO547	Connected member	3.46	-0.03	0.05	0.25	-0.04
	CO547	Connected member	13.92	-0.2	-0.21	0.26	1.26
61	CO548	Main member	38.2	-2.55	1.56	1.1	4.85
	CO548	Continuous member	48.53	-0.78	-2.79	1.39	-0.56
	CO548	Connected member	3.45	-0.03	0.02	0.16	-0.04
61	CO548	Connected member	14.18	-0.2	-0.24	0.13	1.28
	CO549	Main member	68.02	-2.58	3.96	2.47	4.82
	CO549	Continuous member	97.03	-0.71	-6.86	3.71	-0.45
61	CO549	Connected member	0.74	-0.01	0.16	0.54	-0.13
	CO549	Connected member	40.68	-0.19	-0.01	0.7	1.2
	CO550	Main member	80.75	-1.77	3.92	2.47	3.59
61	CO550	Continuous member	106.84	-0.63	-6.8	3.62	-0.42
	CO550	Connected member	2.7	-0.06	0.12	0.45	0.04
	CO550	Connected member	36.18	-0.2	0	0.7	1.3
61	CO551	Main member	-39.6	0.26	1.19	1.12	-0.2
	CO551	Continuous member	-25.49	-0.07	-2.45	1.79	-0.06
	CO551	Connected member	-5.24	-0.01	0.18	0.45	-0.01
61	CO551	Connected member	20.36	-0.03	-0.26	0.23	0.32
	CO552	Main member	-57.07	0.24	-1.38	-0.97	-0.15
	CO552	Continuous member	-40.79	-0.08	1.87	-1.02	-0.1
61	CO552	Connected member	-24.93	-0.01	0.09	0.17	-0.01
	CO552	Connected member	27.14	-0.04	-0.4	-0.22	0.34
	CO553	Main member	-70.56	0.25	-4.03	-2.29	-0.18
61	CO553	Continuous member	-73.96	-0.09	5.49	-3.18	-0.11
	CO553	Connected member	-10.64	-0.01	-0.05	-0.17	0
	CO553	Connected member	-2.62	-0.03	-0.6	-0.72	0.34
61	CO554	Main member	-47.42	0.24	-2.2	-0.88	-0.17
	CO554	Continuous member	-30.56	-0.06	1.97	-0.62	-0.04
	CO554	Connected member	-16.68	-0.01	0.12	0.28	-0.01
	CO554	Connected member	26.64	-0.04	-0.33	-0.03	0.32



::LAVteam::

Page: 317/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO555	Main member	-12.43	-2.54	-3.93	-2.19	4.93
	CO555	Continuous member	-29.74	-0.87	5.56	-3.6	-0.69
	CO555	Connected member	6.8	-0.05	-0.24	-0.5	0.08
61	CO555	Connected member	-24.55	-0.2	-0.63	-0.91	1.4
	CO556	Main member	26.89	-2.56	-1.73	-0.42	4.87
	CO556	Continuous member	28.22	-0.77	1.51	-0.63	-0.53
61	CO556	Connected member	4.99	-0.04	-0.06	-0.04	0
	CO556	Connected member	1.67	-0.2	-0.36	-0.17	1.29
	CO557	Main member	27.18	-2.55	-1.33	-0.66	4.86
61	CO557	Continuous member	28.7	-0.8	1.15	-1.09	-0.58
	CO557	Connected member	4.98	-0.04	-0.1	-0.13	0
	CO557	Connected member	1.93	-0.2	-0.4	-0.3	1.32
61	CO558	Main member	57.01	-2.57	1.07	0.73	4.83
	CO558	Continuous member	77.21	-0.73	-2.94	1.25	-0.47
	CO558	Connected member	2.28	-0.02	0.05	0.25	-0.08
61	CO558	Connected member	28.44	-0.19	-0.17	0.27	1.23
	CO559	Main member	69.74	-1.76	1.04	0.73	3.6
	CO559	Continuous member	87.02	-0.64	-2.89	1.17	-0.44
61	CO559	Connected member	4.23	-0.06	0.01	0.16	0.08
	CO559	Connected member	23.95	-0.2	-0.16	0.27	1.32
61	CO560	Main member	-50.65	0.26	-1.7	-0.66	-0.2
	CO560	Continuous member	-45.36	-0.07	1.52	-0.71	-0.06
	CO560	Connected member	-3.73	-0.01	0.07	0.16	0
61	CO560	Connected member	8.11	-0.03	-0.42	-0.21	0.33
	CO561	Main member	-68.12	0.24	-4.28	-2.75	-0.15
	CO561	Continuous member	-60.67	-0.08	5.85	-3.55	-0.1
61	CO561	Connected member	-23.43	-0.01	-0.02	-0.13	-0.01
	CO561	Connected member	14.89	-0.04	-0.56	-0.67	0.34
	CO562	Main member	-70.42	0.25	-4.05	-2.35	-0.18
61	CO562	Continuous member	-72.84	-0.09	5.54	-3.24	-0.11
	CO562	Connected member	-11.83	-0.01	-0.05	-0.18	0
	CO562	Connected member	-1.04	-0.03	-0.6	-0.72	0.34
61	CO563	Main member	-47.27	0.24	-2.22	-0.94	-0.17
	CO563	Continuous member	-29.44	-0.06	2.02	-0.68	-0.05
	CO563	Connected member	-17.87	-0.01	0.12	0.28	-0.01
61	CO563	Connected member	28.22	-0.04	-0.33	-0.03	0.32
	CO564	Main member	-12.29	-2.54	-3.95	-2.25	4.93
	CO564	Continuous member	-28.62	-0.87	5.61	-3.66	-0.69
61	CO564	Connected member	5.61	-0.05	-0.24	-0.51	0.08
	CO564	Connected member	-22.97	-0.2	-0.63	-0.91	1.4
61	CO565	Main member	27.04	-2.56	-1.76	-0.47	4.87
	CO565	Continuous member	29.34	-0.77	1.56	-0.68	-0.53
	CO565	Connected member	3.81	-0.04	-0.06	-0.05	0
61	CO565	Connected member	3.26	-0.2	-0.36	-0.17	1.29
	CO566	Main member	27.33	-2.55	-1.36	-0.71	4.86
	CO566	Continuous member	29.81	-0.79	1.2	-1.15	-0.58
61	CO566	Connected member	3.8	-0.04	-0.1	-0.13	0
	CO566	Connected member	3.51	-0.2	-0.39	-0.31	1.32
	CO567	Main member	57.16	-2.57	1.04	0.67	4.83
61	CO567	Continuous member	78.33	-0.73	-2.89	1.2	-0.47
	CO567	Connected member	1.1	-0.02	0.05	0.25	-0.08
	CO567	Connected member	30.02	-0.19	-0.16	0.27	1.23
61	CO568	Main member	69.89	-1.76	1.01	0.68	3.6
	CO568	Continuous member	88.14	-0.64	-2.84	1.11	-0.44
	CO568	Connected member	3.05	-0.06	0.01	0.16	0.08
61	CO568	Connected member	25.53	-0.2	-0.16	0.27	1.32
	CO569	Main member	-50.5	0.26	-1.73	-0.71	-0.2
	CO569	Continuous member	-44.24	-0.07	1.57	-0.77	-0.06
61	CO569	Connected member	-4.91	-0.01	0.06	0.15	0
	CO569	Connected member	9.69	-0.03	-0.42	-0.21	0.33
61	CO570	Main member	-67.98	0.23	-4.31	-2.81	-0.15
	CO570	Continuous member	-59.55	-0.08	5.9	-3.61	-0.1
	CO570	Connected member	-24.61	-0.01	-0.02	-0.13	-0.01
61	CO570	Connected member	16.47	-0.04	-0.55	-0.67	0.34
	CO571	Main member	-73.41	0.25	-4.67	-2.69	-0.18
	CO571	Continuous member	-78.7	-0.09	6.38	-3.74	-0.11
61	CO571	Connected member	-10.38	-0.01	-0.08	-0.24	0
	CO571	Connected member	-5.24	-0.03	-0.63	-0.82	0.34
	CO572	Main member	-50.27	0.24	-2.84	-1.28	-0.17
61	CO572	Continuous member	-35.29	-0.06	2.85	-1.18	-0.04
	CO572	Connected member	-16.42	-0.02	0.1	0.22	-0.01
	CO572	Connected member	24.02	-0.04	-0.37	-0.12	0.32
61	CO573	Main member	-15.27	-2.54	-4.57	-2.59	4.94
	CO573	Continuous member	-34.47	-0.88	6.44	-4.15	-0.69
	CO573	Connected member	7.07	-0.05	-0.26	-0.57	0.09
61	CO573	Connected member	-27.17	-0.2	-0.66	-1	1.41
	CO574	Main member	24.06	-2.56	-2.38	-0.81	4.87
	CO574	Continuous member	23.5	-0.78	2.38	-1.17	-0.54
61	CO574	Connected member	5.26	-0.04	-0.09	-0.11	0.01
	CO574	Connected member	-0.94	-0.2	-0.39	-0.26	1.3
61	CO575	Main member	24.35	-2.55	-1.97	-1.05	4.87
	CO575	Continuous member	23.97	-0.8	2.03	-1.64	-0.59
	CO575	Connected member	5.25	-0.04	-0.12	-0.19	0.01
61	CO575	Connected member	-0.68	-0.2	-0.43	-0.4	1.32
	CO576	Main member	54.18	-2.57	0.43	0.34	4.83
	CO576	Continuous member	72.49	-0.73	-2.07	0.71	-0.47
61	CO576	Connected member	2.55	-0.02	0.03	0.19	-0.07
	CO576	Connected member	25.83	-0.19	-0.2	0.18	1.24
61	CO577	Main member	66.91	-1.76	0.4	0.34	3.61
	CO577	Continuous member	82.3	-0.64	-2.02	0.63	-0.44
	CO577	Connected member	4.5	-0.07	-0.02	0.1	0.09
61	CO577	Connected member	21.34	-0.2	-0.19	0.18	1.33
	CO578	Main member	-53.49	0.26	-2.35	-1.05	-0.2
	CO578	Continuous member	-50.1	-0.07	2.4	-1.27	-0.06



::LAV/team::

Page: 318/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO578	Connected member	-3.46	-0.01	0.04	0.09	0
	CO578	Connected member	5.5	-0.03	-0.45	-0.31	0.33
	CO579	Main member	-70.97	0.24	-4.92	-3.15	-0.15
61	CO579	Continuous member	-65.41	-0.08	6.73	-4.11	-0.1
	CO579	Connected member	-23.17	-0.01	-0.05	-0.19	-0.01
	CO579	Connected member	12.27	-0.04	-0.59	-0.77	0.34
61	CO580	Main member	-73.26	0.25	-4.7	-2.75	-0.18
	CO580	Continuous member	-77.58	-0.09	6.43	-3.8	-0.11
	CO580	Connected member	-11.57	-0.01	-0.08	-0.24	0
61	CO580	Connected member	-3.66	-0.03	-0.63	-0.82	0.34
	CO581	Main member	-50.12	0.24	-2.87	-1.33	-0.17
	CO581	Continuous member	-34.17	-0.06	2.9	-1.23	-0.05
61	CO581	Connected member	-17.6	-0.02	0.1	0.22	-0.01
	CO581	Connected member	25.6	-0.04	-0.37	-0.13	0.32
	CO582	Main member	-15.12	-2.54	-4.6	-2.64	4.94
61	CO582	Continuous member	-33.35	-0.88	6.49	-4.21	-0.69
	CO582	Connected member	5.88	-0.05	-0.26	-0.57	0.08
	CO582	Connected member	-25.59	-0.2	-0.66	-1	1.4
61	CO583	Main member	24.21	-2.56	-2.4	-0.86	4.87
	CO583	Continuous member	24.62	-0.78	2.43	-1.23	-0.54
	CO583	Connected member	4.08	-0.04	-0.09	-0.11	0.01
61	CO583	Connected member	0.64	-0.2	-0.39	-0.27	1.3
	CO584	Main member	24.5	-2.55	-2	-1.11	4.86
	CO584	Continuous member	25.09	-0.8	2.08	-1.7	-0.58
61	CO584	Connected member	4.07	-0.04	-0.12	-0.19	0.01
	CO584	Connected member	0.9	-0.2	-0.43	-0.4	1.32
	CO585	Main member	54.33	-2.57	0.4	0.28	4.83
61	CO585	Continuous member	73.61	-0.73	-2.02	0.65	-0.47
	CO585	Connected member	1.37	-0.02	0.03	0.19	-0.08
	CO585	Connected member	27.41	-0.19	-0.2	0.18	1.24
61	CO586	Main member	67.05	-1.76	0.37	0.29	3.6
	CO586	Continuous member	83.42	-0.64	-1.97	0.57	-0.44
	CO586	Connected member	3.32	-0.07	-0.02	0.1	0.08
61	CO586	Connected member	22.92	-0.2	-0.19	0.18	1.33
	CO587	Main member	-53.34	0.26	-2.37	-1.11	-0.2
61	CO587	Continuous member	-48.98	-0.07	2.45	-1.33	-0.06
	CO587	Connected member	-4.65	-0.01	0.04	0.09	0
	CO587	Connected member	7.08	-0.03	-0.45	-0.31	0.33
61	CO588	Main member	-70.82	0.23	-4.95	-3.2	-0.15
	CO588	Continuous member	-64.29	-0.08	6.78	-4.17	-0.1
	CO588	Connected member	-24.35	-0.01	-0.05	-0.2	-0.01
61	CO588	Connected member	13.85	-0.04	-0.59	-0.77	0.34
	CO589	Main member	-64.77	0.25	-2.32	-1.24	-0.18
61	CO589	Continuous member	-62.85	-0.09	3.14	-1.69	-0.11
	CO589	Connected member	-11.67	-0.01	0.02	0	-0.01
	CO589	Connected member	4.79	-0.03	-0.51	-0.45	0.34
61	CO590	Main member	-41.63	0.24	-0.49	0.16	-0.17
	CO590	Continuous member	-19.45	-0.06	-0.37	0.86	-0.04
	CO590	Connected member	-17.71	-0.01	0.19	0.46	-0.01
61	CO590	Connected member	34.04	-0.04	-0.24	0.23	0.32
	CO591	Main member	-6.66	-2.55	-2.22	-1.15	4.93
	CO591	Continuous member	-18.64	-0.86	3.22	-2.11	-0.67
61	CO591	Connected member	5.76	-0.04	-0.16	-0.32	0.05
	CO591	Connected member	-17.13	-0.2	-0.54	-0.65	1.38
	CO592	Main member	32.66	-2.57	-0.03	0.62	4.86
61	CO592	Continuous member	39.31	-0.76	-0.82	0.84	-0.52
	CO592	Connected member	3.95	-0.03	0.01	0.13	-0.03
	CO592	Connected member	9.09	-0.2	-0.27	0.09	1.27
61	CO593	Main member	32.95	-2.55	0.37	0.38	4.86
	CO593	Continuous member	39.78	-0.79	-1.17	0.38	-0.57
	CO593	Connected member	3.94	-0.03	-0.03	0.05	-0.03
61	CO593	Connected member	9.34	-0.2	-0.31	-0.05	1.3
	CO594	Main member	62.78	-2.57	2.77	1.75	4.83
	CO594	Continuous member	88.29	-0.72	-5.26	2.71	-0.46
61	CO594	Connected member	1.24	-0.01	0.12	0.42	-0.11
	CO594	Connected member	35.84	-0.19	-0.07	0.53	1.21
	CO595	Main member	75.51	-1.77	2.74	1.76	3.6
61	CO595	Continuous member	98.1	-0.63	-5.2	2.62	-0.43
	CO595	Connected member	3.19	-0.06	0.07	0.34	0.05
	CO595	Connected member	31.35	-0.2	-0.07	0.53	1.31
61	CO596	Main member	-44.86	0.26	0	0.39	-0.2
	CO596	Continuous member	-34.25	-0.07	-0.82	0.77	-0.06
	CO596	Connected member	-4.75	-0.01	0.13	0.33	-0.01
61	CO596	Connected member	15.53	-0.03	-0.33	0.05	0.33
	CO597	Main member	-62.33	0.24	-2.57	-1.7	-0.15
	CO597	Continuous member	-49.56	-0.08	3.5	-2.05	-0.1
61	CO597	Connected member	-24.45	-0.01	0.04	0.05	-0.01
	CO597	Connected member	22.3	-0.04	-0.46	-0.4	0.34
	CO598	Main member	-64.63	0.25	-2.35	-1.3	-0.18
61	CO598	Continuous member	-61.73	-0.09	3.2	-1.75	-0.11
	CO598	Connected member	-12.85	-0.01	0.01	0	-0.01
	CO598	Connected member	6.37	-0.04	-0.5	-0.46	0.34
61	CO599	Main member	-41.48	0.24	-0.52	0.11	-0.17
	CO599	Continuous member	-18.33	-0.06	-0.32	0.8	-0.04
	CO599	Connected member	-18.89	-0.01	0.19	0.46	-0.01
61	CO599	Connected member	35.62	-0.04	-0.23	0.23	0.32
	CO600	Main member	-6.52	-2.55	-2.25	-1.2	4.92
	CO600	Continuous member	-17.52	-0.86	3.28	-2.17	-0.67
61	CO600	Connected member	4.58	-0.04	-0.16	-0.33	0.05
	CO600	Connected member	-15.55	-0.2	-0.54	-0.65	1.38
	CO601	Main member	32.81	-2.56	-0.06	0.56	4.86
61	CO601	Continuous member	40.43	-0.76	-0.77	0.78	-0.52
	CO601	Connected member	2.77	-0.03	0.01	0.13	-0.03
	CO601	Connected member	10.67	-0.2	-0.27	0.09	1.27



::LAVteam::

Page: 319/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO602	Main member	33.1	-2.55	0.34	0.32	4.86
	CO602	Continuous member	40.9	-0.78	-1.12	0.32	-0.57
	CO602	Connected member	2.76	-0.03	-0.03	0.04	-0.03
61	CO602	Connected member	10.92	-0.2	-0.3	-0.05	1.3
	CO603	Main member	62.93	-2.57	2.74	1.7	4.82
	CO603	Continuous member	89.41	-0.72	-5.2	2.65	-0.46
61	CO603	Connected member	0.06	-0.01	0.12	0.42	-0.11
	CO603	Connected member	37.42	-0.19	-0.07	0.53	1.21
	CO604	Main member	75.65	-1.77	2.71	1.7	3.6
61	CO604	Continuous member	99.22	-0.63	-5.15	2.57	-0.43
	CO604	Connected member	2.01	-0.06	0.07	0.34	0.05
	CO604	Connected member	32.93	-0.2	-0.06	0.53	1.31
61	CO605	Main member	-44.71	0.26	-0.03	0.33	-0.2
	CO605	Continuous member	-33.13	-0.07	-0.77	0.71	-0.06
	CO605	Connected member	-5.94	-0.01	0.13	0.33	-0.01
61	CO605	Connected member	17.11	-0.03	-0.32	0.05	0.33
	CO606	Main member	-62.18	0.24	-2.6	-1.76	-0.15
	CO606	Continuous member	-48.44	-0.08	3.55	-2.11	-0.1
61	CO606	Connected member	-25.63	-0.01	0.04	0.05	-0.01
	CO606	Connected member	23.88	-0.04	-0.46	-0.41	0.34
61	CO607	Main member	-61.93	0.25	-1.68	-0.84	-0.18
	CO607	Continuous member	-58.11	-0.09	2.26	-1.13	-0.11
	CO607	Connected member	-11.93	-0.01	0.04	0.07	-0.01
61	CO607	Connected member	7.41	-0.04	-0.47	-0.36	0.34
	CO608	Main member	-38.79	0.24	0.15	0.56	-0.17
	CO608	Continuous member	-14.71	-0.06	-1.24	1.41	-0.04
61	CO608	Connected member	-17.97	-0.01	0.21	0.52	-0.01
	CO608	Connected member	36.66	-0.04	-0.2	0.33	0.32
61	CO609	Main member	-3.83	-2.55	-1.58	-0.75	4.92
	CO609	Continuous member	-13.92	-0.86	2.35	-1.56	-0.67
	CO609	Connected member	5.5	-0.04	-0.14	-0.26	0.04
61	CO609	Connected member	-14.52	-0.2	-0.51	-0.55	1.37
	CO610	Main member	35.49	-2.57	0.61	1.01	4.86
	CO610	Continuous member	44.03	-0.76	-1.69	1.39	-0.52
61	CO610	Connected member	3.69	-0.03	0.03	0.19	-0.04
	CO610	Connected member	11.7	-0.2	-0.23	0.18	1.27
61	CO611	Main member	35.79	-2.55	1.01	0.77	4.85
	CO611	Continuous member	44.51	-0.78	-2.04	0.93	-0.56
	CO611	Connected member	3.68	-0.03	0	0.11	-0.03
61	CO611	Connected member	11.96	-0.2	-0.27	0.05	1.29
	CO612	Main member	65.61	-2.57	3.41	2.14	4.82
	CO612	Continuous member	93.01	-0.71	-6.12	3.25	-0.45
61	CO612	Connected member	0.97	-0.01	0.14	0.48	-0.12
	CO612	Connected member	38.45	-0.19	-0.04	0.62	1.21
61	CO613	Main member	78.34	-1.77	3.38	2.14	3.59
	CO613	Continuous member	102.82	-0.63	-6.06	3.16	-0.43
	CO613	Connected member	2.93	-0.06	0.1	0.4	0.05
61	CO613	Connected member	33.96	-0.2	-0.03	0.62	1.3
	CO614	Main member	-42.02	0.26	0.64	0.78	-0.2
	CO614	Continuous member	-29.52	-0.07	-1.7	1.32	-0.06
61	CO614	Connected member	-5.02	-0.01	0.16	0.4	-0.01
	CO614	Connected member	18.14	-0.03	-0.29	0.14	0.32
61	CO615	Main member	-59.49	0.24	-1.93	-1.3	-0.15
	CO615	Continuous member	-44.82	-0.08	2.62	-1.5	-0.1
	CO615	Connected member	-24.71	-0.01	0.07	0.11	-0.01
61	CO615	Connected member	24.91	-0.04	-0.43	-0.31	0.34
	CO616	Main member	-61.78	0.25	-1.7	-0.9	-0.18
	CO616	Continuous member	-56.99	-0.09	2.31	-1.19	-0.11
61	CO616	Connected member	-13.12	-0.01	0.04	0.07	-0.01
	CO616	Connected member	8.99	-0.04	-0.47	-0.36	0.34
61	CO617	Main member	-38.64	0.24	0.12	0.5	-0.17
	CO617	Continuous member	-13.59	-0.06	-1.19	1.35	-0.04
	CO617	Connected member	-19.15	-0.01	0.21	0.52	-0.01
61	CO617	Connected member	38.23	-0.04	-0.2	0.33	0.32
	CO618	Main member	-3.68	-2.55	-1.61	-0.81	4.92
	CO618	Continuous member	-12.8	-0.86	2.4	-1.62	-0.67
61	CO618	Connected member	4.31	-0.04	-0.14	-0.26	0.04
	CO618	Connected member	-12.94	-0.2	-0.51	-0.55	1.37
61	CO619	Main member	35.64	-2.57	0.58	0.95	4.86
	CO619	Continuous member	45.15	-0.76	-1.64	1.33	-0.52
	CO619	Connected member	2.5	-0.03	0.03	0.19	-0.04
61	CO619	Connected member	13.28	-0.2	-0.23	0.18	1.27
	CO620	Main member	35.93	-2.55	0.99	0.71	4.85
	CO620	Continuous member	45.62	-0.78	-1.99	0.87	-0.56
61	CO620	Connected member	2.49	-0.03	0	0.11	-0.04
	CO620	Connected member	13.54	-0.2	-0.27	0.05	1.29
61	CO621	Main member	65.76	-2.57	3.38	2.09	4.82
	CO621	Continuous member	94.13	-0.71	-6.07	3.19	-0.45
	CO621	Connected member	-0.21	-0.01	0.14	0.48	-0.12
61	CO621	Connected member	40.03	-0.19	-0.04	0.62	1.21
	CO622	Main member	78.49	-1.77	3.35	2.09	3.59
	CO622	Continuous member	103.94	-0.63	-6.01	3.11	-0.43
61	CO622	Connected member	1.74	-0.06	0.1	0.4	0.04
	CO622	Connected member	35.54	-0.2	-0.03	0.62	1.3
	CO623	Main member	-41.87	0.26	0.62	0.73	-0.2
61	CO623	Continuous member	-28.4	-0.07	-1.65	1.26	-0.06
	CO623	Connected member	-6.2	-0.01	0.16	0.39	-0.01
	CO623	Connected member	19.72	-0.03	-0.29	0.14	0.33
61	CO624	Main member	-59.34	0.24	-1.96	-1.36	-0.15
	CO624	Continuous member	-43.7	-0.08	2.67	-1.55	-0.1
	CO624	Connected member	-25.89	-0.01	0.07	0.11	-0.01
61	CO624	Connected member	26.49	-0.04	-0.42	-0.31	0.34
	CO625	Main member	-9.92	0.01	-0.3	0.06	-0.01
61	CO625	Continuous member	-16.22	0	0.68	-0.45	-0.01



::LAV/team::

Page: 320/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO625	Connected member	4.02	0	-0.07	-0.09	0.01
	CO625	Connected member	-9.19	0	-0.48	-0.42	0.01
	CO626	Main member	-16.3	0.01	-2.04	-1	-0.01
61	CO626	Continuous member	-27.94	-0.01	3.06	-1.96	-0.01
	CO626	Connected member	4.99	0	-0.14	-0.27	0.01
	CO626	Connected member	-16.63	0	-0.57	-0.68	0.01
61	CO627	Main member	-18.4	0.01	-2.51	-1.29	-0.01
	CO627	Continuous member	-31.45	-0.01	3.71	-2.37	-0.01
	CO627	Connected member	5.19	0	-0.15	-0.32	0.01
61	CO627	Connected member	-18.57	0	-0.59	-0.75	0.02
	CO628	Main member	-12.02	0.01	-0.77	-0.23	-0.01
	CO628	Continuous member	-19.72	0	1.33	-0.86	-0.01
61	CO628	Connected member	4.22	0	-0.08	-0.14	0.01
	CO628	Connected member	-11.13	0	-0.5	-0.49	0.01
	CO629	Main member	-23.92	0.01	-3.48	-1.89	-0.01
61	CO629	Continuous member	-39.57	-0.01	5.02	-3.18	-0.01
	CO629	Connected member	5.34	0	-0.19	-0.41	0.01
	CO629	Connected member	-22.12	0	-0.64	-0.89	0.02
61	CO630	Main member	-30.3	0.01	-5.22	-2.96	-0.01
	CO630	Continuous member	-51.3	-0.01	7.41	-4.7	-0.01
	CO630	Connected member	6.3	0	-0.26	-0.59	0.01
61	CO630	Connected member	-29.56	0	-0.73	-1.15	0.02
	CO631	Main member	-32.4	0.01	-5.7	-3.25	-0.02
	CO631	Continuous member	-54.8	-0.01	8.06	-5.11	-0.01
61	CO631	Connected member	6.5	0	-0.28	-0.63	0.01
	CO631	Connected member	-31.5	0	-0.76	-1.23	0.02
	CO632	Main member	-26.02	0.01	-3.95	-2.18	-0.01
61	CO632	Continuous member	-43.07	-0.01	5.67	-3.6	-0.01
	CO632	Connected member	5.54	0	-0.2	-0.45	0.01
	CO632	Connected member	-24.06	0	-0.67	-0.96	0.02
61	CO633	Main member	-33.8	0.01	-6.01	-3.45	-0.02
	CO633	Continuous member	-57.14	-0.01	8.5	-5.39	-0.01
	CO633	Connected member	6.63	0	-0.29	-0.67	0.01
61	CO633	Connected member	-32.79	0	-0.77	-1.27	0.02
	CO634	Main member	-33.7	0.01	-6.03	-3.49	-0.01
	CO634	Continuous member	-56.39	-0.01	8.53	-5.43	-0.01
61	CO634	Connected member	5.84	0	-0.29	-0.67	0.01
	CO634	Connected member	-31.74	0	-0.77	-1.27	0.02
	CO635	Main member	-35.9	0.01	-6.49	-3.74	-0.02
61	CO635	Continuous member	-60.64	-0.01	9.15	-5.8	-0.01
	CO635	Connected member	6.83	0	-0.31	-0.71	0.01
	CO635	Connected member	-34.73	0	-0.8	-1.34	0.02
61	CO636	Main member	-35.81	0.01	-6.51	-3.78	-0.02
	CO636	Continuous member	-59.9	-0.01	9.19	-5.84	-0.01
	CO636	Connected member	6.04	0	-0.31	-0.72	0.01
61	CO636	Connected member	-33.68	0	-0.79	-1.35	0.02
	CO637	Main member	-29.53	0.01	-4.75	-2.67	-0.01
	CO637	Continuous member	-48.91	-0.01	6.76	-4.28	-0.01
61	CO637	Connected member	5.86	0	-0.23	-0.53	0.01
	CO637	Connected member	-27.29	0	-0.71	-1.08	0.02
	CO638	Main member	-29.43	0.01	-4.77	-2.71	-0.01
61	CO638	Continuous member	-48.17	-0.01	6.79	-4.32	-0.01
	CO638	Connected member	5.07	0	-0.23	-0.53	0.01
	CO638	Connected member	-26.24	0	-0.71	-1.08	0.02
61	CO639	Main member	-52.53	0.11	-6.09	-3.53	-0.08
	CO639	Continuous member	-70.41	-0.04	8.49	-5.26	-0.05
	CO639	Connected member	0.03	-0.01	-0.23	-0.55	0
61	CO639	Connected member	-24.19	-0.01	-0.75	-1.18	0.15
	CO640	Main member	-43.29	0.1	-5.36	-2.96	-0.08
	CO640	Continuous member	-53.05	-0.03	7.07	-4.23	-0.02
61	CO640	Connected member	-2.39	-0.01	-0.15	-0.37	0
	CO640	Connected member	-12.47	-0.01	-0.65	-0.91	0.14
	CO641	Main member	-29.26	-1.02	-6.05	-3.48	1.98
61	CO641	Continuous member	-52.71	-0.37	8.51	-5.42	-0.3
	CO641	Connected member	7.02	-0.02	-0.3	-0.69	0.04
	CO641	Connected member	-32.98	-0.08	-0.76	-1.25	0.58
61	CO642	Main member	-13.53	-1.03	-5.17	-2.76	1.98
	CO642	Continuous member	-29.51	-0.34	6.87	-4.22	-0.25
	CO642	Connected member	6.3	-0.02	-0.23	-0.5	0.03
61	CO642	Connected member	-22.48	-0.08	-0.65	-0.96	0.55
	CO643	Main member	-13.41	-1.02	-5.01	-2.86	1.98
	CO643	Continuous member	-29.32	-0.35	6.73	-4.4	-0.27
61	CO643	Connected member	6.3	-0.02	-0.24	-0.53	0.03
	CO643	Connected member	-22.37	-0.08	-0.67	-1.01	0.56
	CO644	Main member	-1.48	-1.03	-4.04	-2.29	1.97
61	CO644	Continuous member	-9.9	-0.33	5.07	-3.44	-0.24
	CO644	Connected member	5.23	-0.02	-0.18	-0.38	0.01
	CO644	Connected member	-11.76	-0.08	-0.58	-0.78	0.54
61	CO645	Main member	3.61	-0.72	-4.05	-2.29	1.49
	CO645	Continuous member	-5.97	-0.29	5.09	-3.47	-0.22
	CO645	Connected member	6	-0.03	-0.2	-0.41	0.06
61	CO645	Connected member	-13.55	-0.08	-0.57	-0.77	0.57
	CO646	Main member	-44.57	0.11	-5.16	-2.87	-0.09
	CO646	Continuous member	-58.97	-0.03	6.89	-4.27	-0.03
61	CO646	Connected member	2.8	-0.01	-0.18	-0.42	0.01
	CO646	Connected member	-19.89	-0.01	-0.68	-0.98	0.14
	CO647	Main member	-51.56	0.1	-6.19	-3.71	-0.07
61	CO647	Continuous member	-65.1	-0.04	8.63	-5.41	-0.05
	CO647	Connected member	-5.09	-0.01	-0.21	-0.54	0
	CO647	Connected member	-17.18	-0.01	-0.73	-1.16	0.15
61	CO648	Main member	-52.43	0.11	-6.11	-3.56	-0.08
	CO648	Continuous member	-69.66	-0.04	8.52	-5.3	-0.05
	CO648	Connected member	-0.76	-0.01	-0.23	-0.56	0
	CO648	Connected member	-23.14	-0.01	-0.75	-1.18	0.15



::LAV/team::

Page: 321/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO649	Main member	-43.19	0.1	-5.38	-2.99	-0.08
	CO649	Continuous member	-52.31	-0.03	7.11	-4.27	-0.03
	CO649	Connected member	-3.18	-0.01	-0.15	-0.37	0
61	CO649	Connected member	-11.42	-0.01	-0.64	-0.91	0.14
	CO650	Main member	-29.17	-1.02	-6.07	-3.52	1.98
	CO650	Continuous member	-51.96	-0.37	8.55	-5.46	-0.3
61	CO650	Connected member	6.23	-0.02	-0.3	-0.69	0.04
	CO650	Connected member	-31.92	-0.08	-0.76	-1.26	0.58
	CO651	Main member	-13.43	-1.03	-5.19	-2.8	1.98
61	CO651	Continuous member	-28.77	-0.34	6.91	-4.25	-0.25
	CO651	Connected member	5.51	-0.02	-0.23	-0.5	0.03
	CO651	Connected member	-21.42	-0.08	-0.65	-0.96	0.55
61	CO652	Main member	-13.32	-1.02	-5.02	-2.9	1.98
	CO652	Continuous member	-28.58	-0.35	6.77	-4.44	-0.27
	CO652	Connected member	5.51	-0.02	-0.24	-0.54	0.03
61	CO652	Connected member	-21.32	-0.08	-0.67	-1.01	0.56
	CO653	Main member	-1.38	-1.03	-4.06	-2.33	1.97
	CO653	Continuous member	-9.15	-0.33	5.11	-3.48	-0.24
61	CO653	Connected member	4.44	-0.02	-0.18	-0.38	0.01
	CO653	Connected member	-10.7	-0.08	-0.58	-0.78	0.54
61	CO654	Main member	3.71	-0.72	-4.07	-2.32	1.49
	CO654	Continuous member	-5.23	-0.29	5.12	-3.51	-0.22
	CO654	Connected member	5.21	-0.03	-0.2	-0.41	0.06
61	CO654	Connected member	-12.49	-0.08	-0.57	-0.77	0.57
	CO655	Main member	-44.47	0.11	-5.18	-2.9	-0.09
	CO655	Continuous member	-58.22	-0.03	6.93	-4.31	-0.03
61	CO655	Connected member	2.01	-0.01	-0.18	-0.42	0.01
	CO655	Connected member	-18.84	-0.01	-0.68	-0.98	0.14
61	CO656	Main member	-51.47	0.1	-6.21	-3.75	-0.07
	CO656	Continuous member	-64.35	-0.04	8.67	-5.45	-0.05
	CO656	Connected member	-5.88	-0.01	-0.21	-0.54	0
61	CO656	Connected member	-16.13	-0.01	-0.73	-1.16	0.15
	CO657	Main member	-54.63	0.11	-6.57	-3.82	-0.08
	CO657	Continuous member	-73.91	-0.04	9.14	-5.67	-0.05
61	CO657	Connected member	0.23	-0.01	-0.24	-0.6	0.01
	CO657	Connected member	-26.13	-0.01	-0.77	-1.25	0.15
61	CO658	Main member	-45.39	0.1	-5.84	-3.25	-0.08
	CO658	Continuous member	-56.56	-0.03	7.73	-4.64	-0.02
	CO658	Connected member	-2.2	-0.01	-0.17	-0.42	0.01
61	CO658	Connected member	-14.41	-0.01	-0.67	-0.98	0.14
	CO659	Main member	-31.36	-1.02	-6.53	-3.78	1.98
	CO659	Continuous member	-56.21	-0.37	9.17	-5.83	-0.3
61	CO659	Connected member	7.22	-0.02	-0.32	-0.73	0.04
	CO659	Connected member	-34.92	-0.08	-0.78	-1.33	0.58
61	CO660	Main member	-15.63	-1.03	-5.65	-3.05	1.98
	CO660	Continuous member	-33.02	-0.34	7.53	-4.63	-0.25
	CO660	Connected member	6.5	-0.02	-0.25	-0.55	0.03
61	CO660	Connected member	-24.42	-0.08	-0.68	-1.03	0.55
	CO661	Main member	-15.51	-1.02	-5.48	-3.15	1.98
	CO661	Continuous member	-32.83	-0.35	7.39	-4.81	-0.27
61	CO661	Connected member	6.5	-0.02	-0.26	-0.58	0.03
	CO661	Connected member	-24.31	-0.08	-0.69	-1.08	0.56
61	CO662	Main member	-3.58	-1.03	-4.52	-2.58	1.97
	CO662	Continuous member	-13.4	-0.33	5.72	-3.85	-0.24
	CO662	Connected member	5.42	-0.02	-0.2	-0.42	0.02
61	CO662	Connected member	-13.7	-0.08	-0.6	-0.85	0.54
	CO663	Main member	1.51	-0.72	-4.53	-2.58	1.49
	CO663	Continuous member	-9.47	-0.29	5.74	-3.88	-0.22
61	CO663	Connected member	6.2	-0.03	-0.22	-0.46	0.06
	CO663	Connected member	-15.48	-0.08	-0.6	-0.84	0.57
61	CO664	Main member	-46.67	0.11	-5.64	-3.16	-0.09
	CO664	Continuous member	-62.48	-0.03	7.55	-4.68	-0.03
	CO664	Connected member	2.99	-0.01	-0.2	-0.47	0.01
61	CO664	Connected member	-21.83	-0.01	-0.7	-1.05	0.14
	CO665	Main member	-53.67	0.1	-6.67	-4.01	-0.07
	CO665	Continuous member	-68.6	-0.04	9.29	-5.82	-0.05
61	CO665	Connected member	-4.89	-0.01	-0.23	-0.58	0
	CO665	Connected member	-19.12	-0.01	-0.76	-1.23	0.15
61	CO666	Main member	-54.54	0.11	-6.59	-3.86	-0.08
	CO666	Continuous member	-73.17	-0.04	9.18	-5.71	-0.05
	CO666	Connected member	-0.56	-0.01	-0.24	-0.6	0.01
61	CO666	Connected member	-25.08	-0.01	-0.77	-1.25	0.15
	CO667	Main member	-45.3	0.1	-5.85	-3.29	-0.08
	CO667	Continuous member	-55.81	-0.03	7.76	-4.68	-0.03
61	CO667	Connected member	-2.99	-0.01	-0.17	-0.42	0.01
	CO667	Connected member	-13.36	-0.01	-0.67	-0.98	0.14
61	CO668	Main member	-31.27	-1.02	-6.55	-3.81	1.98
	CO668	Continuous member	-55.47	-0.37	9.2	-5.87	-0.3
	CO668	Connected member	6.43	-0.02	-0.32	-0.74	0.04
61	CO668	Connected member	-33.86	-0.08	-0.78	-1.33	0.58
	CO669	Main member	-15.53	-1.03	-5.66	-3.09	1.98
	CO669	Continuous member	-32.27	-0.34	7.56	-4.67	-0.25
61	CO669	Connected member	5.71	-0.02	-0.25	-0.55	0.03
	CO669	Connected member	-23.36	-0.08	-0.67	-1.03	0.55
61	CO670	Main member	-15.42	-1.02	-5.5	-3.19	1.98
	CO670	Continuous member	-32.08	-0.35	7.42	-4.85	-0.27
	CO670	Connected member	5.71	-0.02	-0.26	-0.58	0.03
61	CO670	Connected member	-23.26	-0.08	-0.69	-1.08	0.56
	CO671	Main member	-3.48	-1.03	-4.53	-2.62	1.97
	CO671	Continuous member	-12.65	-0.33	5.76	-3.89	-0.24
61	CO671	Connected member	4.63	-0.02	-0.2	-0.43	0.02
	CO671	Connected member	-12.64	-0.08	-0.6	-0.85	0.54
61	CO672	Main member	1.61	-0.72	-4.55	-2.62	1.49
	CO672	Continuous member	-8.73	-0.29	5.78	-3.92	-0.22



::LAVteam::

Page: 322/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO672	Connected member	5.41	-0.03	-0.22	-0.46	0.06
	CO672	Connected member	-14.43	-0.08	-0.6	-0.84	0.57
	CO673	Main member	-46.57	0.11	-5.66	-3.2	-0.09
61	CO673	Continuous member	-61.73	-0.03	7.58	-4.72	-0.03
	CO673	Connected member	2.2	-0.01	-0.2	-0.47	0.01
	CO673	Connected member	-20.78	-0.01	-0.7	-1.05	0.14
61	CO674	Main member	-53.57	0.1	-6.69	-4.04	-0.07
	CO674	Continuous member	-67.86	-0.04	9.32	-5.86	-0.05
	CO674	Connected member	-5.69	-0.01	-0.23	-0.59	0
61	CO674	Connected member	-18.07	-0.01	-0.75	-1.23	0.15
	CO675	Main member	-48.25	0.11	-4.83	-2.75	-0.08
	CO675	Continuous member	-62.18	-0.04	6.75	-4.15	-0.05
61	CO675	Connected member	-0.73	-0.01	-0.17	-0.42	0
	CO675	Connected member	-18.7	-0.01	-0.68	-0.99	0.15
	CO676	Main member	-39.01	0.1	-4.09	-2.18	-0.08
61	CO676	Continuous member	-44.83	-0.03	5.34	-3.13	-0.02
	CO676	Connected member	-3.16	-0.01	-0.1	-0.23	0
	CO676	Connected member	-6.98	-0.01	-0.58	-0.71	0.14
61	CO677	Main member	-24.99	-1.02	-4.79	-2.7	1.98
	CO677	Continuous member	-44.49	-0.36	6.77	-4.32	-0.29
	CO677	Connected member	6.26	-0.02	-0.25	-0.55	0.03
61	CO677	Connected member	-27.48	-0.08	-0.69	-1.06	0.57
	CO678	Main member	-9.26	-1.03	-3.91	-1.99	1.98
	CO678	Continuous member	-21.29	-0.34	5.14	-3.11	-0.25
61	CO678	Connected member	5.54	-0.02	-0.18	-0.37	0.02
	CO678	Connected member	-16.98	-0.08	-0.59	-0.76	0.54
	CO679	Main member	-9.14	-1.02	-3.74	-2.08	1.98
61	CO679	Continuous member	-21.1	-0.35	5	-3.3	-0.27
	CO679	Connected member	5.53	-0.02	-0.19	-0.4	0.02
	CO679	Connected member	-16.88	-0.08	-0.6	-0.82	0.55
61	CO680	Main member	2.8	-1.03	-2.78	-1.52	1.97
	CO680	Continuous member	-1.68	-0.33	3.34	-2.35	-0.23
	CO680	Connected member	4.46	-0.02	-0.13	-0.25	0
61	CO680	Connected member	-6.26	-0.08	-0.51	-0.58	0.53
	CO681	Main member	7.89	-0.72	-2.79	-1.52	1.49
	CO681	Continuous member	2.25	-0.29	3.36	-2.38	-0.21
61	CO681	Connected member	5.23	-0.03	-0.15	-0.28	0.05
	CO681	Connected member	-8.05	-0.08	-0.51	-0.58	0.56
	CO682	Main member	-40.29	0.11	-3.9	-2.09	-0.09
61	CO682	Continuous member	-50.74	-0.03	5.16	-3.16	-0.03
	CO682	Connected member	2.03	-0.01	-0.12	-0.29	0
	CO682	Connected member	-14.4	-0.01	-0.61	-0.78	0.14
61	CO683	Main member	-47.28	0.1	-4.93	-2.93	-0.07
	CO683	Continuous member	-56.87	-0.04	6.89	-4.3	-0.05
	CO683	Connected member	-5.85	-0.01	-0.16	-0.4	0
61	CO683	Connected member	-11.68	-0.01	-0.66	-0.97	0.15
	CO684	Main member	-48.15	0.1	-4.84	-2.78	-0.08
	CO684	Continuous member	-61.43	-0.04	6.78	-4.19	-0.05
61	CO684	Connected member	-1.52	-0.01	-0.17	-0.42	0
	CO684	Connected member	-17.64	-0.01	-0.68	-0.99	0.15
	CO685	Main member	-38.91	0.1	-4.11	-2.22	-0.08
61	CO685	Continuous member	-44.08	-0.03	5.37	-3.16	-0.02
	CO685	Connected member	-3.95	-0.01	-0.1	-0.24	0
	CO685	Connected member	-5.92	-0.01	-0.58	-0.71	0.14
61	CO686	Main member	-24.89	-1.02	-4.8	-2.74	1.98
	CO686	Continuous member	-43.74	-0.36	6.81	-4.36	-0.29
	CO686	Connected member	5.46	-0.02	-0.25	-0.55	0.03
61	CO686	Connected member	-26.42	-0.08	-0.69	-1.06	0.57
	CO687	Main member	-9.16	-1.03	-3.92	-2.02	1.98
	CO687	Continuous member	-20.55	-0.34	5.17	-3.15	-0.25
61	CO687	Connected member	4.74	-0.02	-0.18	-0.37	0.02
	CO687	Connected member	-15.93	-0.08	-0.58	-0.77	0.54
	CO688	Main member	-9.04	-1.02	-3.76	-2.12	1.98
61	CO688	Continuous member	-20.36	-0.34	5.03	-3.34	-0.27
	CO688	Connected member	4.74	-0.02	-0.19	-0.4	0.02
	CO688	Connected member	-15.82	-0.08	-0.6	-0.82	0.55
61	CO689	Main member	2.9	-1.03	-2.8	-1.55	1.97
	CO689	Continuous member	-0.93	-0.33	3.38	-2.38	-0.23
	CO689	Connected member	3.67	-0.02	-0.13	-0.25	0
61	CO689	Connected member	-5.21	-0.08	-0.51	-0.58	0.53
	CO690	Main member	7.98	-0.72	-2.81	-1.55	1.49
	CO690	Continuous member	2.99	-0.29	3.4	-2.42	-0.21
61	CO690	Connected member	4.44	-0.03	-0.15	-0.28	0.05
	CO690	Connected member	-7	-0.08	-0.5	-0.58	0.56
	CO691	Main member	-40.19	0.11	-3.91	-2.13	-0.09
61	CO691	Continuous member	-50	-0.03	5.19	-3.2	-0.03
	CO691	Connected member	1.24	-0.01	-0.12	-0.29	0
	CO691	Connected member	-13.34	-0.01	-0.61	-0.79	0.14
61	CO692	Main member	-47.18	0.1	-4.95	-2.97	-0.07
	CO692	Continuous member	-56.12	-0.04	6.93	-4.34	-0.05
	CO692	Connected member	-6.64	-0.01	-0.16	-0.4	0
61	CO692	Connected member	-10.63	-0.01	-0.66	-0.97	0.15
	CO693	Main member	-49.03	0.11	-5.29	-3.03	-0.08
	CO693	Continuous member	-64.57	-0.04	7.4	-4.57	-0.05
61	CO693	Connected member	-0.29	-0.01	-0.19	-0.48	0
	CO693	Connected member	-20.96	-0.01	-0.71	-1.06	0.15
	CO694	Main member	-39.79	0.1	-4.56	-2.47	-0.08
61	CO694	Continuous member	-47.21	-0.03	5.99	-3.54	-0.02
	CO694	Connected member	-2.72	-0.01	-0.12	-0.29	0
	CO694	Connected member	-9.24	-0.01	-0.61	-0.79	0.14
61	CO695	Main member	-25.76	-1.02	-5.25	-2.99	1.98
	CO695	Continuous member	-46.87	-0.36	7.42	-4.73	-0.29
	CO695	Connected member	6.7	-0.02	-0.27	-0.61	0.04
	CO695	Connected member	-29.75	-0.08	-0.72	-1.14	0.57



::LAVteam::

Page: 323/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO696	Main member	-10.03	-1.03	-4.37	-2.27	1.98
	CO696	Continuous member	-23.68	-0.34	5.79	-3.53	-0.25
	CO696	Connected member	5.98	-0.02	-0.2	-0.42	0.02
61	CO696	Connected member	-19.25	-0.08	-0.61	-0.84	0.55
	CO697	Main member	-9.91	-1.02	-4.21	-2.37	1.98
	CO697	Continuous member	-23.49	-0.35	5.65	-3.72	-0.27
61	CO697	Connected member	5.97	-0.02	-0.21	-0.46	0.02
	CO697	Connected member	-19.14	-0.08	-0.63	-0.89	0.56
	CO698	Main member	2.02	-1.03	-3.24	-1.8	1.97
61	CO698	Continuous member	-4.06	-0.33	3.99	-2.76	-0.23
	CO698	Connected member	4.9	-0.02	-0.15	-0.3	0.01
	CO698	Connected member	-8.53	-0.08	-0.54	-0.66	0.54
61	CO699	Main member	7.11	-0.72	-3.26	-1.8	1.49
	CO699	Continuous member	-0.14	-0.29	4.01	-2.79	-0.22
	CO699	Connected member	5.67	-0.03	-0.17	-0.33	0.06
61	CO699	Connected member	-10.32	-0.08	-0.53	-0.66	0.56
	CO700	Main member	-41.07	0.11	-4.36	-2.38	-0.09
	CO700	Continuous member	-53.13	-0.03	5.8	-3.58	-0.03
61	CO700	Connected member	2.47	-0.01	-0.15	-0.34	0
	CO700	Connected member	-16.66	-0.01	-0.64	-0.86	0.14
	CO701	Main member	-48.06	0.1	-5.4	-3.22	-0.07
61	CO701	Continuous member	-59.25	-0.04	7.54	-4.72	-0.05
	CO701	Connected member	-5.41	-0.01	-0.18	-0.46	0
	CO701	Connected member	-13.95	-0.01	-0.69	-1.04	0.15
61	CO702	Main member	-51.13	0.11	-5.77	-3.33	-0.08
	CO702	Continuous member	-68.07	-0.04	8.05	-4.98	-0.05
	CO702	Connected member	-0.1	-0.01	-0.21	-0.52	0
61	CO702	Connected member	-22.9	-0.01	-0.73	-1.13	0.15
	CO703	Main member	-41.89	0.1	-5.04	-2.76	-0.08
	CO703	Continuous member	-50.72	-0.03	6.64	-3.95	-0.02
61	CO703	Connected member	-2.52	-0.01	-0.14	-0.34	0
	CO703	Connected member	-11.18	-0.01	-0.63	-0.86	0.14
	CO704	Main member	-27.86	-1.02	-5.73	-3.28	1.98
61	CO704	Continuous member	-50.37	-0.36	8.08	-5.15	-0.29
	CO704	Connected member	6.89	-0.02	-0.29	-0.65	0.04
	CO704	Connected member	-31.69	-0.08	-0.74	-1.21	0.58
61	CO705	Main member	-12.13	-1.03	-4.85	-2.56	1.98
	CO705	Continuous member	-27.18	-0.34	6.44	-3.94	-0.25
	CO705	Connected member	6.17	-0.02	-0.22	-0.47	0.03
61	CO705	Connected member	-21.19	-0.08	-0.64	-0.91	0.55
	CO706	Main member	-12.01	-1.02	-4.69	-2.66	1.98
	CO706	Continuous member	-26.99	-0.35	6.3	-4.13	-0.27
61	CO706	Connected member	6.17	-0.02	-0.23	-0.5	0.03
	CO706	Connected member	-21.08	-0.08	-0.65	-0.96	0.56
61	CO707	Main member	-0.08	-1.03	-3.72	-2.1	1.97
	CO707	Continuous member	-7.56	-0.33	4.64	-3.17	-0.23
	CO707	Connected member	5.09	-0.02	-0.17	-0.35	0.01
61	CO707	Connected member	-10.47	-0.08	-0.56	-0.73	0.54
	CO708	Main member	5.01	-0.72	-3.74	-2.09	1.49
	CO708	Continuous member	-3.64	-0.29	4.66	-3.2	-0.22
61	CO708	Connected member	5.87	-0.03	-0.19	-0.38	0.06
	CO708	Connected member	-12.26	-0.08	-0.56	-0.73	0.57
	CO709	Main member	-43.17	0.11	-4.84	-2.67	-0.09
61	CO709	Continuous member	-56.63	-0.03	6.46	-3.99	-0.03
	CO709	Connected member	2.67	-0.01	-0.16	-0.39	0.01
	CO709	Connected member	-18.6	-0.01	-0.66	-0.93	0.14
61	CO710	Main member	-50.16	0.1	-5.87	-3.51	-0.07
	CO710	Continuous member	-62.76	-0.04	8.2	-5.13	-0.05
	CO710	Connected member	-5.22	-0.01	-0.2	-0.5	0
61	CO710	Connected member	-15.89	-0.01	-0.72	-1.11	0.15
	CO711	Main member	-44.74	0.11	-4.03	-2.26	-0.08
	CO711	Continuous member	-56.34	-0.04	5.66	-3.46	-0.05
61	CO711	Connected member	-1.06	-0.01	-0.14	-0.34	0
	CO711	Connected member	-15.46	-0.01	-0.64	-0.87	0.15
	CO712	Main member	-35.51	0.1	-3.3	-1.69	-0.08
61	CO712	Continuous member	-38.98	-0.03	4.25	-2.44	-0.02
	CO712	Connected member	-3.48	-0.01	-0.07	-0.16	0
	CO712	Connected member	-3.75	-0.01	-0.54	-0.59	0.14
61	CO713	Main member	-21.49	-1.02	-3.99	-2.21	1.98
	CO713	Continuous member	-38.65	-0.36	5.69	-3.63	-0.29
	CO713	Connected member	5.93	-0.02	-0.22	-0.47	0.03
61	CO713	Connected member	-24.25	-0.08	-0.65	-0.94	0.57
	CO714	Main member	-5.76	-1.03	-3.11	-1.5	1.98
	CO714	Continuous member	-15.46	-0.33	4.06	-2.43	-0.24
61	CO714	Connected member	5.21	-0.02	-0.15	-0.29	0.01
	CO714	Connected member	-13.75	-0.08	-0.55	-0.65	0.54
	CO715	Main member	-5.64	-1.02	-2.95	-1.6	1.98
61	CO715	Continuous member	-15.27	-0.34	3.92	-2.62	-0.26
	CO715	Connected member	5.2	-0.02	-0.16	-0.32	0.01
	CO715	Connected member	-13.65	-0.08	-0.56	-0.7	0.55
61	CO716	Main member	6.3	-1.03	-1.98	-1.03	1.97
	CO716	Continuous member	4.16	-0.32	2.26	-1.67	-0.23
	CO716	Connected member	4.13	-0.01	-0.1	-0.17	0
61	CO716	Connected member	-3.03	-0.08	-0.47	-0.47	0.53
	CO717	Main member	11.39	-0.72	-2	-1.03	1.49
	CO717	Continuous member	8.08	-0.29	2.28	-1.7	-0.21
61	CO717	Connected member	4.91	-0.03	-0.12	-0.2	0.05
	CO717	Connected member	-4.82	-0.08	-0.47	-0.46	0.56
	CO718	Main member	-36.78	0.11	-3.1	-1.6	-0.09
61	CO718	Continuous member	-44.9	-0.03	4.07	-2.48	-0.03
	CO718	Connected member	1.71	-0.01	-0.09	-0.21	0
	CO718	Connected member	-11.16	-0.01	-0.57	-0.67	0.14
61	CO719	Main member	-43.78	0.1	-4.13	-2.44	-0.07
	CO719	Continuous member	-51.02	-0.04	5.8	-3.61	-0.05



::LAV/team::

Page: 324/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO719	Connected member	-6.18	-0.01	-0.13	-0.32	0
	CO719	Connected member	-8.45	-0.01	-0.62	-0.85	0.15
	CO720	Main member	-27.42	0.01	-4.27	-2.38	-0.01
61	CO720	Continuous member	-45.41	-0.01	6.11	-3.87	-0.01
	CO720	Connected member	5.67	0	-0.22	-0.49	0.01
	CO720	Connected member	-25.35	0	-0.68	-1.01	0.02
61	CO721	Main member	-27.33	0.01	-4.29	-2.41	-0.01
	CO721	Continuous member	-44.66	-0.01	6.14	-3.91	-0.01
	CO721	Connected member	4.88	0	-0.22	-0.49	0.01
61	CO721	Connected member	-24.3	0	-0.68	-1.01	0.02
	CO722	Main member	-46.15	0.11	-4.35	-2.45	-0.08
	CO722	Continuous member	-58.67	-0.04	6.09	-3.74	-0.05
61	CO722	Connected member	-0.93	-0.01	-0.15	-0.37	0
	CO722	Connected member	-16.76	-0.01	-0.66	-0.92	0.15
	CO723	Main member	-36.91	0.1	-3.62	-1.89	-0.08
61	CO723	Continuous member	-41.32	-0.03	4.68	-2.71	-0.02
	CO723	Connected member	-3.35	-0.01	-0.08	-0.19	0
	CO723	Connected member	-5.04	-0.01	-0.55	-0.64	0.14
61	CO724	Main member	-22.89	-1.02	-4.31	-2.41	1.98
	CO724	Continuous member	-40.98	-0.36	6.12	-3.9	-0.29
	CO724	Connected member	6.06	-0.02	-0.23	-0.51	0.03
61	CO724	Connected member	-25.54	-0.08	-0.67	-0.99	0.57
	CO725	Main member	-7.16	-1.03	-3.43	-1.69	1.98
	CO725	Continuous member	-17.79	-0.33	4.49	-2.7	-0.25
61	CO725	Connected member	5.34	-0.02	-0.16	-0.32	0.01
	CO725	Connected member	-15.04	-0.08	-0.56	-0.69	0.54
	CO726	Main member	-7.04	-1.02	-3.27	-1.79	1.98
61	CO726	Continuous member	-17.6	-0.34	4.35	-2.89	-0.26
	CO726	Connected member	5.33	-0.02	-0.17	-0.35	0.02
	CO726	Connected member	-14.94	-0.08	-0.58	-0.75	0.55
61	CO727	Main member	4.9	-1.03	-2.3	-1.23	1.97
	CO727	Continuous member	1.82	-0.33	2.69	-1.94	-0.23
	CO727	Connected member	4.26	-0.02	-0.11	-0.2	0
61	CO727	Connected member	-4.32	-0.08	-0.49	-0.51	0.53
	CO728	Main member	9.99	-0.72	-2.32	-1.22	1.49
	CO728	Continuous member	5.75	-0.29	2.71	-1.97	-0.21
61	CO728	Connected member	5.04	-0.03	-0.13	-0.23	0.05
	CO728	Connected member	-6.12	-0.08	-0.48	-0.51	0.56
	CO729	Main member	-38.19	0.11	-3.42	-1.8	-0.09
61	CO729	Continuous member	-47.24	-0.03	4.5	-2.75	-0.03
	CO729	Connected member	1.84	-0.01	-0.11	-0.24	0
	CO729	Connected member	-12.46	-0.01	-0.59	-0.71	0.14
61	CO730	Main member	-45.18	0.1	-4.45	-2.64	-0.07
	CO730	Continuous member	-53.36	-0.04	6.24	-3.89	-0.05
	CO730	Connected member	-6.05	-0.01	-0.14	-0.36	0
61	CO730	Connected member	-9.75	-0.01	-0.64	-0.9	0.15
	CO731	Main member	-46.05	0.1	-4.37	-2.49	-0.08
	CO731	Continuous member	-57.93	-0.04	6.13	-3.78	-0.05
61	CO731	Connected member	-1.72	-0.01	-0.15	-0.37	0
	CO731	Connected member	-15.7	-0.01	-0.66	-0.92	0.15
	CO732	Main member	-36.81	0.1	-3.63	-1.92	-0.08
61	CO732	Continuous member	-40.57	-0.03	4.72	-2.75	-0.02
	CO732	Connected member	-4.14	-0.01	-0.08	-0.19	0
	CO732	Connected member	-3.98	-0.01	-0.55	-0.64	0.14
61	CO733	Main member	-22.79	-1.02	-4.33	-2.45	1.98
	CO733	Continuous member	-40.24	-0.36	6.16	-3.94	-0.29
	CO733	Connected member	5.27	-0.02	-0.23	-0.51	0.03
61	CO733	Connected member	-24.49	-0.08	-0.67	-0.99	0.57
	CO734	Main member	-7.06	-1.03	-3.45	-1.73	1.98
	CO734	Continuous member	-17.05	-0.33	4.52	-2.74	-0.25
61	CO734	Connected member	4.55	-0.02	-0.16	-0.32	0.01
	CO734	Connected member	-13.99	-0.08	-0.56	-0.69	0.54
	CO735	Main member	-6.94	-1.02	-3.28	-1.83	1.98
61	CO735	Continuous member	-16.85	-0.34	4.38	-2.93	-0.26
	CO735	Connected member	4.54	-0.02	-0.17	-0.36	0.02
	CO735	Connected member	-13.88	-0.08	-0.58	-0.75	0.55
61	CO736	Main member	5	-1.03	-2.32	-1.26	1.97
	CO736	Continuous member	2.57	-0.32	2.73	-1.98	-0.23
	CO736	Connected member	3.47	-0.02	-0.11	-0.2	0
61	CO736	Connected member	-3.27	-0.08	-0.48	-0.51	0.53
	CO737	Main member	10.08	-0.72	-2.33	-1.26	1.49
	CO737	Continuous member	6.49	-0.29	2.75	-2.01	-0.21
61	CO737	Connected member	4.25	-0.03	-0.13	-0.23	0.05
	CO737	Connected member	-5.06	-0.08	-0.48	-0.51	0.56
	CO738	Main member	-38.09	0.11	-3.44	-1.83	-0.09
61	CO738	Continuous member	-46.49	-0.03	4.54	-2.79	-0.03
	CO738	Connected member	1.05	-0.01	-0.11	-0.24	0
	CO738	Connected member	-11.4	-0.01	-0.59	-0.72	0.14
61	CO739	Main member	-45.08	0.1	-4.47	-2.67	-0.07
	CO739	Continuous member	-52.62	-0.04	6.27	-3.92	-0.05
	CO739	Connected member	-6.84	-0.01	-0.14	-0.36	0
61	CO739	Connected member	-8.69	-0.01	-0.64	-0.9	0.15
	CO740	Main member	-42.64	0.11	-3.55	-1.96	-0.08
	CO740	Continuous member	-52.83	-0.04	5.01	-3.05	-0.05
61	CO740	Connected member	-1.25	-0.01	-0.12	-0.29	0
	CO740	Connected member	-13.53	-0.01	-0.62	-0.8	0.15
	CO741	Main member	-33.4	0.1	-2.82	-1.4	-0.08
61	CO741	Continuous member	-35.48	-0.03	3.6	-2.03	-0.02
	CO741	Connected member	-3.68	-0.01	-0.05	-0.11	0
	CO741	Connected member	-1.81	-0.01	-0.51	-0.52	0.14
61	CO742	Main member	-19.39	-1.02	-3.51	-1.92	1.98
	CO742	Continuous member	-35.14	-0.36	5.04	-3.22	-0.29
	CO742	Connected member	5.73	-0.02	-0.2	-0.43	0.02
	CO742	Connected member	-22.31	-0.08	-0.63	-0.87	0.57



::LAVteam::

Page: 325/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO743	Main member	-3.66	-1.03	-2.63	-1.21	1.97
	CO743	Continuous member	-11.95	-0.33	3.41	-2.02	-0.24
	CO743	Connected member	5.01	-0.02	-0.13	-0.24	0.01
61	CO743	Connected member	-11.81	-0.08	-0.52	-0.58	0.54
	CO744	Main member	-3.54	-1.02	-2.47	-1.3	1.97
	CO744	Continuous member	-11.76	-0.34	3.26	-2.21	-0.26
61	CO744	Connected member	5.01	-0.02	-0.14	-0.28	0.01
	CO744	Connected member	-11.71	-0.08	-0.54	-0.63	0.55
	CO745	Main member	8.4	-1.03	-1.51	-0.74	1.97
61	CO745	Continuous member	7.66	-0.32	1.61	-1.26	-0.23
	CO745	Connected member	3.93	-0.01	-0.08	-0.12	0
	CO745	Connected member	-1.1	-0.08	-0.45	-0.4	0.53
61	CO746	Main member	13.49	-0.72	-1.52	-0.74	1.49
	CO746	Continuous member	11.58	-0.29	1.63	-1.29	-0.21
	CO746	Connected member	4.71	-0.03	-0.1	-0.16	0.05
61	CO746	Connected member	-2.89	-0.08	-0.44	-0.39	0.56
	CO747	Main member	-34.68	0.11	-2.62	-1.31	-0.09
	CO747	Continuous member	-41.4	-0.03	3.42	-2.06	-0.03
61	CO747	Connected member	1.51	-0.01	-0.08	-0.16	0
	CO747	Connected member	-9.23	-0.01	-0.55	-0.6	0.14
	CO748	Main member	-41.67	0.1	-3.66	-2.15	-0.07
61	CO748	Continuous member	-47.52	-0.04	5.15	-3.2	-0.05
	CO748	Connected member	-6.37	-0.01	-0.11	-0.28	0
	CO748	Connected member	-6.52	-0.01	-0.6	-0.78	0.14
61	CO749	Main member	-16.92	0.01	-1.89	-0.91	-0.01
	CO749	Continuous member	-27.89	-0.01	2.85	-1.81	-0.01
	CO749	Connected member	4.68	0	-0.13	-0.25	0.01
61	CO749	Connected member	-15.66	0	-0.56	-0.65	0.01
	CO750	Main member	-16.73	0.01	-1.92	-0.98	-0.01
	CO750	Continuous member	-26.4	-0.01	2.92	-1.89	-0.01
61	CO750	Connected member	3.1	0	-0.13	-0.25	0.01
	CO750	Connected member	-13.55	0	-0.56	-0.66	0.01
	CO751	Main member	-23.3	0.01	-3.63	-1.98	-0.01
61	CO751	Continuous member	-39.62	-0.01	5.23	-3.33	-0.01
	CO751	Connected member	5.65	0	-0.2	-0.43	0.01
	CO751	Connected member	-23.1	0	-0.65	-0.92	0.02
61	CO752	Main member	-23.11	0.01	-3.66	-2.05	-0.01
	CO752	Continuous member	-38.13	-0.01	5.3	-3.4	-0.01
	CO752	Connected member	4.07	0	-0.2	-0.43	0.01
61	CO752	Connected member	-20.98	0	-0.65	-0.92	0.02
	CO753	Main member	-25.4	0.01	-4.1	-2.27	-0.01
	CO753	Continuous member	-43.12	-0.01	5.89	-3.74	-0.01
61	CO753	Connected member	5.85	0	-0.21	-0.48	0.01
	CO753	Connected member	-25.03	0	-0.68	-0.99	0.02
61	CO754	Main member	-25.21	0.01	-4.14	-2.35	-0.01
	CO754	Continuous member	-41.63	-0.01	5.95	-3.82	-0.01
	CO754	Connected member	4.26	0	-0.21	-0.48	0.01
61	CO754	Connected member	-22.92	0	-0.67	-0.99	0.02
	CO755	Main member	-19.02	0.01	-2.36	-1.2	-0.01
	CO755	Continuous member	-31.4	-0.01	3.5	-2.23	-0.01
61	CO755	Connected member	4.88	0	-0.14	-0.3	0.01
	CO755	Connected member	-17.59	0	-0.59	-0.72	0.02
61	CO756	Main member	-18.83	0.01	-2.4	-1.28	-0.01
	CO756	Continuous member	-29.91	-0.01	3.57	-2.3	-0.01
	CO756	Connected member	3.3	0	-0.14	-0.3	0.01
61	CO756	Connected member	-15.48	0	-0.58	-0.73	0.02
	CO757	Main member	-42.02	0.11	-3.7	-2.05	-0.08
	CO757	Continuous member	-52.88	-0.04	5.22	-3.19	-0.05
61	CO757	Connected member	-0.95	-0.01	-0.13	-0.32	0
	CO757	Connected member	-14.5	-0.01	-0.63	-0.82	0.15
61	CO758	Main member	-32.78	0.1	-2.97	-1.49	-0.08
	CO758	Continuous member	-35.53	-0.03	3.81	-2.17	-0.02
	CO758	Connected member	-3.37	-0.01	-0.06	-0.13	0
61	CO758	Connected member	-2.79	-0.01	-0.52	-0.55	0.14
	CO759	Main member	-18.76	-1.02	-3.66	-2.01	1.98
	CO759	Continuous member	-35.19	-0.36	5.25	-3.36	-0.28
61	CO759	Connected member	6.04	-0.02	-0.21	-0.45	0.03
	CO759	Connected member	-23.28	-0.08	-0.64	-0.9	0.57
61	CO760	Main member	-3.03	-1.03	-2.78	-1.3	1.97
	CO760	Continuous member	-12	-0.33	3.62	-2.16	-0.24
	CO760	Connected member	5.32	-0.02	-0.14	-0.26	0.01
61	CO760	Connected member	-12.79	-0.08	-0.53	-0.6	0.54
	CO761	Main member	-2.91	-1.02	-2.62	-1.39	1.97
	CO761	Continuous member	-11.81	-0.34	3.48	-2.35	-0.26
61	CO761	Connected member	5.31	-0.02	-0.15	-0.3	0.01
	CO761	Connected member	-12.68	-0.08	-0.55	-0.66	0.55
61	CO762	Main member	9.02	-1.03	-1.66	-0.83	1.97
	CO762	Continuous member	7.61	-0.32	1.82	-1.4	-0.23
	CO762	Connected member	4.24	-0.01	-0.09	-0.14	0
61	CO762	Connected member	-2.07	-0.08	-0.45	-0.42	0.53
	CO763	Main member	14.11	-0.72	-1.67	-0.83	1.49
	CO763	Continuous member	11.53	-0.29	1.84	-1.43	-0.21
61	CO763	Connected member	5.02	-0.03	-0.11	-0.18	0.05
	CO763	Connected member	-3.86	-0.08	-0.45	-0.42	0.56
61	CO764	Main member	-34.06	0.11	-2.77	-1.4	-0.09
	CO764	Continuous member	-41.45	-0.03	3.63	-2.21	-0.03
	CO764	Connected member	1.82	-0.01	-0.09	-0.19	0
61	CO764	Connected member	-10.2	-0.01	-0.56	-0.62	0.14
	CO765	Main member	-41.05	0.1	-3.8	-2.24	-0.07
	CO765	Continuous member	-47.57	-0.04	5.36	-3.34	-0.05
61	CO765	Connected member	-6.07	-0.01	-0.12	-0.3	0
	CO765	Connected member	-7.49	-0.01	-0.61	-0.8	0.14
61	CO766	Main member	-41.82	0.1	-3.74	-2.13	-0.08
	CO766	Continuous member	-51.39	-0.04	5.29	-3.27	-0.05



::LAV/team::

Page: 326/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO766	Connected member	-2.53	-0.01	-0.13	-0.32	0
	CO766	Connected member	-12.39	-0.01	-0.62	-0.83	0.15
	CO767	Main member	-32.58	0.1	-3.01	-1.56	-0.07
61	CO767	Continuous member	-34.04	-0.03	3.88	-2.25	-0.02
	CO767	Connected member	-4.95	-0.01	-0.06	-0.14	0
	CO767	Connected member	-0.68	-0.01	-0.52	-0.55	0.14
61	CO768	Main member	-18.57	-1.02	-3.7	-2.08	1.98
	CO768	Continuous member	-33.7	-0.36	5.32	-3.44	-0.28
	CO768	Connected member	4.46	-0.02	-0.21	-0.45	0.03
61	CO768	Connected member	-21.17	-0.08	-0.64	-0.9	0.57
	CO769	Main member	-2.84	-1.03	-2.82	-1.37	1.97
	CO769	Continuous member	-10.51	-0.33	3.69	-2.24	-0.24
61	CO769	Connected member	3.74	-0.02	-0.14	-0.27	0.01
	CO769	Connected member	-10.68	-0.08	-0.53	-0.61	0.54
	CO770	Main member	-2.72	-1.02	-2.66	-1.47	1.97
61	CO770	Continuous member	-10.32	-0.34	3.55	-2.43	-0.26
	CO770	Connected member	3.73	-0.02	-0.15	-0.3	0.01
	CO770	Connected member	-10.57	-0.08	-0.54	-0.66	0.55
61	CO771	Main member	9.22	-1.03	-1.69	-0.9	1.97
	CO771	Continuous member	9.1	-0.32	1.89	-1.48	-0.23
	CO771	Connected member	2.66	-0.01	-0.09	-0.15	0
61	CO771	Connected member	0.04	-0.08	-0.45	-0.43	0.53
	CO772	Main member	14.31	-0.72	-1.71	-0.9	1.49
	CO772	Continuous member	13.02	-0.29	1.91	-1.51	-0.21
61	CO772	Connected member	3.44	-0.03	-0.11	-0.18	0.05
	CO772	Connected member	-1.75	-0.08	-0.45	-0.42	0.56
	CO773	Main member	-33.86	0.11	-2.81	-1.47	-0.09
61	CO773	Continuous member	-39.96	-0.03	3.7	-2.29	-0.03
	CO773	Connected member	0.24	-0.01	-0.09	-0.19	0
	CO773	Connected member	-8.09	-0.01	-0.55	-0.63	0.14
61	CO774	Main member	-40.85	0.1	-3.84	-2.31	-0.07
	CO774	Continuous member	-46.08	-0.04	5.43	-3.42	-0.05
	CO774	Connected member	-7.65	-0.01	-0.12	-0.3	0
61	CO774	Connected member	-5.38	-0.01	-0.61	-0.81	0.14
	CO775	Main member	-44.12	0.11	-4.18	-2.35	-0.08
	CO775	Continuous member	-56.39	-0.04	5.87	-3.61	-0.05
61	CO775	Connected member	-0.75	-0.01	-0.15	-0.37	0
	CO775	Connected member	-16.44	-0.01	-0.65	-0.9	0.15
	CO776	Main member	-34.88	0.1	-3.45	-1.78	-0.08
61	CO776	Continuous member	-39.03	-0.03	4.46	-2.58	-0.02
	CO776	Connected member	-3.18	-0.01	-0.08	-0.18	0
	CO776	Connected member	-4.72	-0.01	-0.55	-0.62	0.14
61	CO777	Main member	-20.86	-1.02	-4.14	-2.3	1.98
	CO777	Continuous member	-38.7	-0.36	5.9	-3.77	-0.29
	CO777	Connected member	6.24	-0.02	-0.23	-0.5	0.03
61	CO777	Connected member	-25.22	-0.08	-0.66	-0.97	0.57
	CO778	Main member	-5.13	-1.03	-3.26	-1.59	1.97
	CO778	Continuous member	-15.5	-0.33	4.27	-2.57	-0.24
61	CO778	Connected member	5.52	-0.02	-0.16	-0.31	0.02
	CO778	Connected member	-14.73	-0.08	-0.55	-0.67	0.54
	CO779	Main member	-5.01	-1.02	-3.1	-1.69	1.97
61	CO779	Continuous member	-15.31	-0.34	4.13	-2.76	-0.26
	CO779	Connected member	5.51	-0.02	-0.17	-0.35	0.02
	CO779	Connected member	-14.62	-0.08	-0.57	-0.73	0.55
61	CO780	Main member	6.92	-1.03	-2.13	-1.12	1.97
	CO780	Continuous member	4.11	-0.32	2.47	-1.81	-0.23
	CO780	Connected member	4.44	-0.02	-0.11	-0.19	0
61	CO780	Connected member	-4.01	-0.08	-0.48	-0.49	0.53
	CO781	Main member	12.01	-0.72	-2.15	-1.12	1.49
	CO781	Continuous member	8.03	-0.29	2.49	-1.84	-0.21
61	CO781	Connected member	5.21	-0.03	-0.13	-0.23	0.05
	CO781	Connected member	-5.8	-0.08	-0.48	-0.49	0.56
	CO782	Main member	-36.16	0.11	-3.25	-1.69	-0.09
61	CO782	Continuous member	-44.95	-0.03	4.28	-2.62	-0.03
	CO782	Connected member	2.01	-0.01	-0.1	-0.23	0
	CO782	Connected member	-12.14	-0.01	-0.58	-0.69	0.14
61	CO783	Main member	-43.15	0.1	-4.28	-2.53	-0.07
	CO783	Continuous member	-51.07	-0.04	6.02	-3.75	-0.05
	CO783	Connected member	-5.87	-0.01	-0.14	-0.35	0
61	CO783	Connected member	-9.43	-0.01	-0.63	-0.88	0.15
	CO784	Main member	-43.92	0.1	-4.22	-2.42	-0.08
	CO784	Continuous member	-54.9	-0.04	5.94	-3.68	-0.05
61	CO784	Connected member	-2.33	-0.01	-0.15	-0.37	0
	CO784	Connected member	-14.33	-0.01	-0.65	-0.9	0.15
	CO785	Main member	-34.69	0.1	-3.48	-1.85	-0.07
61	CO785	Continuous member	-37.54	-0.03	4.53	-2.66	-0.02
	CO785	Connected member	-4.76	-0.01	-0.08	-0.18	0
	CO785	Connected member	-2.61	-0.01	-0.54	-0.62	0.14
61	CO786	Main member	-20.67	-1.02	-4.18	-2.38	1.98
	CO786	Continuous member	-37.21	-0.36	5.97	-3.85	-0.29
	CO786	Connected member	4.65	-0.02	-0.23	-0.5	0.03
61	CO786	Connected member	-23.11	-0.08	-0.66	-0.97	0.57
	CO787	Main member	-4.94	-1.03	-3.3	-1.66	1.97
	CO787	Continuous member	-14.01	-0.33	4.34	-2.65	-0.24
61	CO787	Connected member	3.93	-0.02	-0.16	-0.31	0.01
	CO787	Connected member	-12.62	-0.08	-0.55	-0.68	0.54
	CO788	Main member	-4.82	-1.02	-3.13	-1.76	1.97
61	CO788	Continuous member	-13.82	-0.34	4.2	-2.84	-0.26
	CO788	Connected member	3.93	-0.02	-0.17	-0.35	0.01
	CO788	Connected member	-12.51	-0.08	-0.57	-0.73	0.55
61	CO789	Main member	7.12	-1.03	-2.17	-1.2	1.97
	CO789	Continuous member	5.6	-0.32	2.54	-1.88	-0.23
	CO789	Connected member	2.86	-0.02	-0.11	-0.19	0
	CO789	Connected member	-1.9	-0.08	-0.48	-0.5	0.53



::LAV/team::

Page: 327/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO790	Main member	12.21	-0.72	-2.18	-1.19	1.49
	CO790	Continuous member	9.52	-0.29	2.56	-1.92	-0.21
	CO790	Connected member	3.63	-0.03	-0.13	-0.23	0.05
61	CO790	Connected member	-3.69	-0.08	-0.47	-0.49	0.56
	CO791	Main member	-35.97	0.11	-3.29	-1.77	-0.09
	CO791	Continuous member	-43.46	-0.03	4.35	-2.7	-0.03
61	CO791	Connected member	0.43	-0.01	-0.11	-0.24	0
	CO791	Connected member	-10.03	-0.01	-0.58	-0.7	0.14
	CO792	Main member	-42.96	0.1	-4.32	-2.6	-0.07
61	CO792	Continuous member	-49.58	-0.04	6.08	-3.83	-0.05
	CO792	Connected member	-7.45	-0.01	-0.14	-0.35	0
	CO792	Connected member	-7.32	-0.01	-0.63	-0.88	0.15
61	CO793	Main member	-37.74	0.1	-2.44	-1.28	-0.08
	CO793	Continuous member	-44.65	-0.04	3.48	-2.09	-0.05
	CO793	Connected member	-1.71	-0.01	-0.08	-0.18	0
61	CO793	Connected member	-9	-0.01	-0.56	-0.63	0.14
	CO794	Main member	-28.5	0.1	-1.71	-0.71	-0.07
	CO794	Continuous member	-27.3	-0.03	2.08	-1.07	-0.02
61	CO794	Connected member	-4.14	-0.01	-0.01	0	0
	CO794	Connected member	2.71	-0.01	-0.46	-0.36	0.14
61	CO795	Main member	-14.48	-1.02	-2.4	-1.24	1.97
	CO795	Continuous member	-26.97	-0.35	3.51	-2.26	-0.28
	CO795	Connected member	5.27	-0.02	-0.16	-0.32	0.02
61	CO795	Connected member	-17.79	-0.08	-0.57	-0.71	0.56
	CO796	Main member	1.24	-1.03	-1.52	-0.53	1.97
	CO796	Continuous member	-3.78	-0.33	1.89	-1.07	-0.24
61	CO796	Connected member	4.55	-0.01	-0.09	-0.13	0
	CO796	Connected member	-7.29	-0.08	-0.46	-0.41	0.53
61	CO797	Main member	1.36	-1.03	-1.36	-0.62	1.97
	CO797	Continuous member	-3.59	-0.34	1.75	-1.25	-0.26
	CO797	Connected member	4.55	-0.02	-0.1	-0.17	0
61	CO797	Connected member	-7.19	-0.08	-0.48	-0.47	0.54
	CO798	Main member	13.3	-1.03	-0.4	-0.06	1.97
	CO798	Continuous member	15.83	-0.32	0.1	-0.31	-0.22
61	CO798	Connected member	3.47	-0.01	-0.04	-0.01	-0.01
	CO798	Connected member	3.42	-0.08	-0.39	-0.23	0.52
61	CO799	Main member	18.39	-0.72	-0.41	-0.06	1.49
	CO799	Continuous member	19.75	-0.28	0.12	-0.34	-0.21
	CO799	Connected member	4.25	-0.03	-0.06	-0.05	0.04
61	CO799	Connected member	1.63	-0.08	-0.38	-0.23	0.55
	CO800	Main member	-29.78	0.11	-1.51	-0.62	-0.09
	CO800	Continuous member	-33.22	-0.03	1.9	-1.11	-0.03
61	CO800	Connected member	1.05	-0.01	-0.04	-0.05	0
	CO800	Connected member	-4.71	-0.01	-0.49	-0.43	0.14
61	CO801	Main member	-36.77	0.1	-2.54	-1.46	-0.07
	CO801	Continuous member	-39.34	-0.04	3.63	-2.24	-0.04
	CO801	Connected member	-6.83	-0.01	-0.07	-0.17	0
61	CO801	Connected member	-1.99	-0.01	-0.54	-0.61	0.14
	CO802	Main member	-37.54	0.1	-2.48	-1.35	-0.08
	CO802	Continuous member	-43.16	-0.04	3.55	-2.17	-0.05
61	CO802	Connected member	-3.29	-0.01	-0.08	-0.19	0
	CO802	Connected member	-6.89	-0.01	-0.56	-0.63	0.14
61	CO803	Main member	-28.3	0.1	-1.74	-0.79	-0.07
	CO803	Continuous member	-25.81	-0.03	2.15	-1.15	-0.02
	CO803	Connected member	-5.72	-0.01	-0.01	0	0
61	CO803	Connected member	4.82	-0.01	-0.45	-0.36	0.14
	CO804	Main member	-14.29	-1.02	-2.44	-1.31	1.97
	CO804	Continuous member	-25.48	-0.35	3.58	-2.34	-0.28
61	CO804	Connected member	3.69	-0.02	-0.16	-0.32	0.02
	CO804	Connected member	-15.68	-0.08	-0.57	-0.71	0.56
61	CO805	Main member	1.44	-1.03	-1.56	-0.6	1.97
	CO805	Continuous member	-2.29	-0.33	1.96	-1.15	-0.24
	CO805	Connected member	2.97	-0.01	-0.09	-0.14	0
61	CO805	Connected member	-5.18	-0.08	-0.46	-0.41	0.53
	CO806	Main member	1.56	-1.03	-1.4	-0.7	1.97
	CO806	Continuous member	-2.1	-0.34	1.82	-1.33	-0.26
61	CO806	Connected member	2.96	-0.02	-0.1	-0.17	0
	CO806	Connected member	-5.08	-0.08	-0.48	-0.47	0.54
61	CO807	Main member	13.49	-1.03	-0.43	-0.13	1.97
	CO807	Continuous member	17.32	-0.32	0.17	-0.38	-0.22
	CO807	Connected member	1.89	-0.01	-0.04	-0.02	-0.01
61	CO807	Connected member	5.53	-0.08	-0.38	-0.23	0.52
	CO808	Main member	18.58	-0.72	-0.45	-0.13	1.49
	CO808	Continuous member	21.24	-0.28	0.19	-0.42	-0.21
61	CO808	Connected member	2.67	-0.03	-0.06	-0.05	0.04
	CO808	Connected member	3.74	-0.08	-0.38	-0.23	0.55
61	CO809	Main member	-29.58	0.11	-1.55	-0.7	-0.08
	CO809	Continuous member	-31.73	-0.03	1.97	-1.18	-0.03
	CO809	Connected member	-0.53	-0.01	-0.04	-0.06	0
61	CO809	Connected member	-2.6	-0.01	-0.49	-0.43	0.14
	CO810	Main member	-36.57	0.1	-2.58	-1.53	-0.07
	CO810	Continuous member	-37.85	-0.04	3.69	-2.31	-0.05
61	CO810	Connected member	-8.41	-0.01	-0.07	-0.17	0
	CO810	Connected member	0.11	-0.01	-0.54	-0.61	0.14
	CO811	Main member	-35.63	0.1	-1.96	-0.98	-0.08
61	CO811	Continuous member	-41.15	-0.04	2.83	-1.68	-0.05
	CO811	Connected member	-1.91	-0.01	-0.07	-0.14	0
	CO811	Connected member	-7.07	-0.01	-0.53	-0.56	0.14
61	CO812	Main member	-26.39	0.1	-1.23	-0.42	-0.07
	CO812	Continuous member	-23.8	-0.03	1.43	-0.66	-0.02
	CO812	Connected member	-4.33	-0.01	0.01	0.05	0
61	CO812	Connected member	4.65	-0.01	-0.43	-0.29	0.14
	CO813	Main member	-12.38	-1.02	-1.92	-0.94	1.97
61	CO813	Continuous member	-23.47	-0.35	2.86	-1.85	-0.28



::LAV/team::

Page: 328/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO813	Connected member	5.07	-0.02	-0.14	-0.27	0.01
	CO813	Connected member	-15.85	-0.08	-0.55	-0.64	0.56
	CO814	Main member	3.34	-1.03	-1.04	-0.23	1.97
61	CO814	Continuous member	-0.28	-0.33	1.24	-0.66	-0.23
	CO814	Connected member	4.35	-0.01	-0.07	-0.09	0
	CO814	Connected member	-5.35	-0.08	-0.44	-0.34	0.53
61	CO815	Main member	3.46	-1.03	-0.88	-0.33	1.97
	CO815	Continuous member	-0.09	-0.33	1.1	-0.85	-0.25
	CO815	Connected member	4.35	-0.01	-0.08	-0.12	0
61	CO815	Connected member	-5.25	-0.08	-0.45	-0.39	0.54
	CO816	Main member	15.4	-1.03	0.08	0.23	1.97
	CO816	Continuous member	19.33	-0.32	-0.55	0.1	-0.22
61	CO816	Connected member	3.27	-0.01	-0.02	0.03	-0.01
	CO816	Connected member	5.36	-0.08	-0.36	-0.16	0.52
	CO817	Main member	20.49	-0.72	0.07	0.23	1.49
61	CO817	Continuous member	23.25	-0.28	-0.53	0.07	-0.21
	CO817	Connected member	4.05	-0.03	-0.04	0	0.04
	CO817	Connected member	3.57	-0.08	-0.36	-0.16	0.55
61	CO818	Main member	-27.68	0.11	-1.03	-0.33	-0.09
	CO818	Continuous member	-29.72	-0.03	1.25	-0.7	-0.03
	CO818	Connected member	0.86	-0.01	-0.02	-0.01	0
61	CO818	Connected member	-2.77	-0.01	-0.46	-0.36	0.14
	CO819	Main member	-34.66	0.1	-2.06	-1.17	-0.07
	CO819	Continuous member	-35.84	-0.04	2.97	-1.83	-0.04
61	CO819	Connected member	-7.03	-0.01	-0.05	-0.12	0
	CO819	Connected member	-0.06	-0.01	-0.52	-0.54	0.14
61	CO820	Main member	-35.44	0.1	-2	-1.06	-0.08
	CO820	Continuous member	-39.66	-0.04	2.9	-1.76	-0.05
	CO820	Connected member	-3.49	-0.01	-0.07	-0.14	0
61	CO820	Connected member	-4.96	-0.01	-0.53	-0.56	0.14
	CO821	Main member	-26.2	0.1	-1.27	-0.49	-0.07
	CO821	Continuous member	-22.31	-0.03	1.5	-0.74	-0.02
61	CO821	Connected member	-5.91	-0.01	0.01	0.04	0
	CO821	Connected member	6.76	-0.01	-0.43	-0.29	0.14
	CO822	Main member	-12.19	-1.02	-1.96	-1.02	1.97
61	CO822	Continuous member	-21.98	-0.35	2.93	-1.93	-0.28
	CO822	Connected member	3.49	-0.02	-0.14	-0.27	0.01
	CO822	Connected member	-13.74	-0.08	-0.55	-0.64	0.56
61	CO823	Main member	3.54	-1.03	-1.08	-0.31	1.97
	CO823	Continuous member	1.21	-0.33	1.31	-0.74	-0.23
	CO823	Connected member	2.77	-0.01	-0.07	-0.09	0
61	CO823	Connected member	-3.25	-0.08	-0.44	-0.34	0.53
	CO824	Main member	3.66	-1.03	-0.92	-0.4	1.97
	CO824	Continuous member	1.4	-0.33	1.17	-0.92	-0.25
61	CO824	Connected member	2.77	-0.01	-0.08	-0.12	0
	CO824	Connected member	-3.14	-0.08	-0.45	-0.4	0.54
	CO825	Main member	15.59	-1.03	0.04	0.16	1.97
61	CO825	Continuous member	20.82	-0.32	-0.48	0.02	-0.22
	CO825	Connected member	1.69	-0.01	-0.02	0.03	-0.01
	CO825	Connected member	7.47	-0.08	-0.36	-0.16	0.52
61	CO826	Main member	20.68	-0.72	0.03	0.16	1.49
	CO826	Continuous member	24.74	-0.28	-0.46	-0.01	-0.21
	CO826	Connected member	2.47	-0.03	-0.04	0	0.04
61	CO826	Connected member	5.67	-0.08	-0.36	-0.16	0.55
	CO827	Main member	-27.48	0.11	-1.07	-0.4	-0.08
	CO827	Continuous member	-28.23	-0.03	1.32	-0.77	-0.03
61	CO827	Connected member	-0.73	-0.01	-0.02	-0.01	0
	CO827	Connected member	-0.66	-0.01	-0.46	-0.36	0.14
	CO828	Main member	-34.47	0.1	-2.1	-1.24	-0.07
61	CO828	Continuous member	-34.35	-0.04	3.04	-1.9	-0.05
	CO828	Connected member	-8.61	-0.01	-0.05	-0.12	0
	CO828	Connected member	2.05	-0.01	-0.51	-0.54	0.14
61	CO829	Main member	-41.09	0.17	-0.42	-0.05	-0.12
	CO829	Continuous member	-38.3	-0.06	0.65	-0.22	-0.07
	CO829	Connected member	-6.94	-0.01	0.03	0.09	-0.01
61	CO829	Connected member	5.11	-0.02	-0.43	-0.26	0.23
	CO830	Main member	-25.68	0.16	0.79	0.88	-0.12
	CO830	Continuous member	-9.38	-0.04	-1.69	1.47	-0.03
61	CO830	Connected member	-10.98	-0.01	0.15	0.4	-0.01
	CO830	Connected member	24.62	-0.02	-0.25	0.2	0.22
	CO831	Main member	-2.36	-1.7	-0.36	0.01	3.28
61	CO831	Continuous member	-8.85	-0.57	0.71	-0.51	-0.44
	CO831	Connected member	4.68	-0.03	-0.09	-0.13	0.01
	CO831	Connected member	-9.52	-0.13	-0.46	-0.39	0.91
61	CO832	Main member	23.85	-1.72	1.1	1.18	3.26
	CO832	Continuous member	29.79	-0.52	-1.98	1.46	-0.36
	CO832	Connected member	3.47	-0.02	0.03	0.18	-0.03
61	CO832	Connected member	7.96	-0.13	-0.27	0.1	0.85
	CO833	Main member	24.05	-1.71	1.37	1.02	3.26
	CO833	Continuous member	30.1	-0.53	-2.22	1.15	-0.39
61	CO833	Connected member	3.46	-0.02	0.01	0.12	-0.02
	CO833	Connected member	8.14	-0.13	-0.3	0.01	0.87
61	CO834	Main member	43.94	-1.72	2.97	1.94	3.25
	CO834	Continuous member	62.45	-0.5	-4.95	2.7	-0.33
	CO834	Connected member	1.66	-0.01	0.1	0.37	-0.06
61	CO834	Connected member	25.81	-0.13	-0.14	0.39	0.82
	CO835	Main member	52.42	-1.19	2.95	1.94	2.44
	CO835	Continuous member	68.99	-0.44	-4.91	2.65	-0.31
61	CO835	Connected member	2.96	-0.04	0.07	0.31	0.04
	CO835	Connected member	22.81	-0.13	-0.14	0.39	0.88
	CO836	Main member	-27.82	0.18	1.12	1.03	-0.14
61	CO836	Continuous member	-19.25	-0.05	-1.99	1.41	-0.04
	CO836	Connected member	-2.34	-0.01	0.11	0.31	-0.01
61	CO836	Connected member	12.27	-0.02	-0.31	0.07	0.22



::LAV/team::

Page: 329/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO837	Main member	-39.47	0.16	-0.59	-0.36	-0.11
	CO837	Continuous member	-29.45	-0.06	0.89	-0.46	-0.07
	CO837	Connected member	-15.47	-0.01	0.05	0.12	-0.01
61	CO837	Connected member	16.78	-0.03	-0.4	-0.22	0.23
	CO838	Main member	-47.48	0.17	-2.16	-1.12	-0.12
	CO838	Continuous member	-50.04	-0.06	3.03	-1.73	-0.07
61	CO838	Connected member	-5.99	-0.01	-0.04	-0.09	0
	CO838	Connected member	-2.32	-0.02	-0.53	-0.52	0.23
	CO839	Main member	-32.07	0.16	-0.94	-0.19	-0.12
61	CO839	Continuous member	-21.11	-0.04	0.69	-0.03	-0.03
	CO839	Connected member	-10.02	-0.01	0.08	0.22	0
	CO839	Connected member	17.19	-0.02	-0.35	-0.07	0.22
61	CO840	Main member	-8.73	-1.7	-2.1	-1.06	3.29
	CO840	Continuous member	-20.57	-0.58	3.09	-2.01	-0.45
	CO840	Connected member	5.64	-0.03	-0.16	-0.31	0.03
61	CO840	Connected member	-16.95	-0.13	-0.55	-0.65	0.92
	CO841	Main member	17.48	-1.71	-0.63	0.12	3.27
	CO841	Continuous member	18.07	-0.53	0.39	-0.04	-0.37
61	CO841	Connected member	4.44	-0.02	-0.04	0	-0.01
	CO841	Connected member	0.54	-0.13	-0.37	-0.16	0.87
	CO842	Main member	17.68	-1.7	-0.36	-0.04	3.26
61	CO842	Continuous member	18.39	-0.54	0.15	-0.35	-0.4
	CO842	Connected member	4.43	-0.02	-0.06	-0.06	-0.01
	CO842	Connected member	0.71	-0.13	-0.39	-0.25	0.88
61	CO843	Main member	37.57	-1.72	1.24	0.89	3.25
	CO843	Continuous member	50.74	-0.5	-2.58	1.22	-0.33
	CO843	Connected member	2.63	-0.02	0.04	0.2	-0.04
61	CO843	Connected member	18.38	-0.13	-0.24	0.13	0.84
	CO844	Main member	46.05	-1.19	1.22	0.89	2.44
	CO844	Continuous member	57.28	-0.45	-2.55	1.16	-0.31
61	CO844	Connected member	3.93	-0.04	0	0.14	0.05
	CO844	Connected member	15.39	-0.13	-0.23	0.14	0.89
	CO845	Main member	-34.21	0.18	-0.61	-0.04	-0.14
61	CO845	Continuous member	-30.98	-0.05	0.39	-0.09	-0.04
	CO845	Connected member	-1.38	-0.01	0.04	0.13	0
	CO845	Connected member	4.84	-0.02	-0.41	-0.19	0.22
61	CO846	Main member	-45.86	0.16	-2.33	-1.43	-0.11
	CO846	Continuous member	-41.18	-0.06	3.27	-1.97	-0.07
	CO846	Connected member	-14.51	-0.01	-0.02	-0.06	-0.01
61	CO846	Connected member	9.35	-0.02	-0.5	-0.49	0.23
	CO847	Main member	-49.58	0.17	-2.64	-1.41	-0.12
	CO847	Continuous member	-53.54	-0.06	3.69	-2.14	-0.07
61	CO847	Connected member	-5.79	-0.01	-0.05	-0.13	0
	CO847	Connected member	-4.26	-0.02	-0.55	-0.6	0.23
	CO848	Main member	-34.17	0.16	-1.42	-0.48	-0.12
61	CO848	Continuous member	-24.62	-0.04	1.34	-0.44	-0.03
	CO848	Connected member	-9.83	-0.01	0.07	0.17	0
	CO848	Connected member	15.25	-0.02	-0.38	-0.14	0.22
61	CO849	Main member	-10.83	-1.7	-2.57	-1.35	3.29
	CO849	Continuous member	-24.07	-0.58	3.74	-2.42	-0.46
	CO849	Connected member	5.84	-0.03	-0.17	-0.35	0.03
61	CO849	Connected member	-18.89	-0.13	-0.57	-0.72	0.93
	CO850	Main member	15.38	-1.71	-1.11	-0.17	3.27
	CO850	Continuous member	14.57	-0.53	1.03	-0.44	-0.37
61	CO850	Connected member	4.64	-0.02	-0.06	-0.05	0
	CO850	Connected member	-1.4	-0.13	-0.39	-0.23	0.87
61	CO851	Main member	15.58	-1.7	-0.84	-0.33	3.27
	CO851	Continuous member	14.89	-0.54	0.8	-0.75	-0.4
	CO851	Connected member	4.63	-0.02	-0.08	-0.11	0
61	CO851	Connected member	-1.23	-0.13	-0.42	-0.32	0.89
	CO852	Main member	35.47	-1.72	0.76	0.6	3.25
	CO852	Continuous member	47.24	-0.51	-1.94	0.81	-0.34
61	CO852	Connected member	2.83	-0.02	0.02	0.15	-0.04
	CO852	Connected member	16.45	-0.13	-0.26	0.06	0.84
	CO853	Main member	43.95	-1.19	0.74	0.6	2.44
61	CO853	Continuous member	53.78	-0.45	-1.9	0.76	-0.32
	CO853	Connected member	4.13	-0.04	-0.01	0.09	0.06
	CO853	Connected member	13.46	-0.13	-0.26	0.07	0.9
61	CO854	Main member	-36.31	0.18	-1.09	-0.33	-0.14
	CO854	Continuous member	-34.48	-0.05	1.04	-0.5	-0.04
	CO854	Connected member	-1.18	-0.01	0.03	0.09	0
61	CO854	Connected member	2.9	-0.02	-0.43	-0.26	0.22
	CO855	Main member	-47.96	0.16	-2.81	-1.72	-0.11
	CO855	Continuous member	-44.69	-0.06	3.92	-2.39	-0.07
61	CO855	Connected member	-14.32	-0.01	-0.03	-0.1	0
	CO855	Connected member	7.42	-0.02	-0.52	-0.56	0.23
	CO856	Main member	-43.19	0.17	-0.9	-0.35	-0.12
61	CO856	Continuous member	-41.81	-0.06	1.3	-0.63	-0.07
	CO856	Connected member	-6.75	-0.01	0.02	0.05	-0.01
	CO856	Connected member	3.17	-0.02	-0.46	-0.33	0.23
61	CO857	Main member	-27.78	0.16	0.32	0.59	-0.12
	CO857	Continuous member	-12.89	-0.04	-1.04	1.06	-0.03
	CO857	Connected member	-10.79	-0.01	0.13	0.35	-0.01
61	CO857	Connected member	22.68	-0.02	-0.28	0.13	0.22
	CO858	Main member	-4.46	-1.7	-0.83	-0.28	3.28
	CO858	Continuous member	-12.35	-0.57	1.36	-0.92	-0.45
61	CO858	Connected member	4.87	-0.03	-0.1	-0.17	0.01
	CO858	Connected member	-11.45	-0.13	-0.48	-0.46	0.91
	CO859	Main member	21.76	-1.72	0.63	0.89	3.26
61	CO859	Continuous member	26.29	-0.52	-1.34	1.05	-0.36
	CO859	Connected member	3.67	-0.02	0.01	0.13	-0.02
	CO859	Connected member	6.03	-0.13	-0.3	0.03	0.86
61	CO860	Main member	21.95	-1.71	0.9	0.73	3.26
	CO860	Continuous member	26.6	-0.53	-1.57	0.74	-0.39



::LAV/team::

Page: 330/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO860	Connected member	3.66	-0.02	-0.01	0.07	-0.02
	CO860	Connected member	6.2	-0.13	-0.32	-0.06	0.87
	CO861	Main member	41.84	-1.72	2.5	1.65	3.25
61	CO861	Continuous member	58.95	-0.5	-4.3	2.3	-0.33
	CO861	Connected member	1.86	-0.01	0.09	0.32	-0.06
	CO861	Connected member	23.87	-0.13	-0.17	0.32	0.83
61	CO862	Main member	50.32	-1.19	2.47	1.65	2.44
	CO862	Continuous member	65.49	-0.44	-4.27	2.24	-0.31
	CO862	Connected member	3.16	-0.04	0.06	0.27	0.04
61	CO862	Connected member	20.88	-0.13	-0.16	0.32	0.89
	CO863	Main member	-29.93	0.18	0.65	0.74	-0.14
	CO863	Continuous member	-22.75	-0.05	-1.34	1	-0.04
61	CO863	Connected member	-2.14	-0.01	0.1	0.26	0
	CO863	Connected member	10.33	-0.02	-0.34	0	0.22
	CO864	Main member	-41.57	0.16	-1.07	-0.65	-0.11
61	CO864	Continuous member	-32.95	-0.06	1.54	-0.87	-0.07
	CO864	Connected member	-15.27	-0.01	0.03	0.07	-0.01
	CO864	Connected member	14.85	-0.02	-0.43	-0.3	0.23
61	CO865	Main member	-50.98	0.17	-2.96	-1.61	-0.12
	CO865	Continuous member	-55.88	-0.06	4.12	-2.42	-0.07
	CO865	Connected member	-5.66	-0.01	-0.06	-0.17	0
61	CO865	Connected member	-5.55	-0.02	-0.57	-0.64	0.23
	CO866	Main member	-35.57	0.16	-1.74	-0.67	-0.12
	CO866	Continuous member	-26.95	-0.04	1.78	-0.72	-0.03
61	CO866	Connected member	-9.7	-0.01	0.05	0.14	0
	CO866	Connected member	13.96	-0.02	-0.39	-0.18	0.22
	CO867	Main member	-12.23	-1.7	-2.89	-1.54	3.29
61	CO867	Continuous member	-26.4	-0.58	4.17	-2.7	-0.46
	CO867	Connected member	5.97	-0.03	-0.19	-0.39	0.04
	CO867	Connected member	-20.18	-0.13	-0.59	-0.77	0.93
61	CO868	Main member	13.98	-1.71	-1.43	-0.36	3.27
	CO868	Continuous member	12.24	-0.53	1.47	-0.72	-0.37
	CO868	Connected member	4.77	-0.02	-0.07	-0.08	0
61	CO868	Connected member	-2.69	-0.13	-0.41	-0.28	0.87
	CO869	Main member	14.18	-1.7	-1.16	-0.52	3.27
	CO869	Continuous member	12.55	-0.54	1.23	-1.03	-0.4
61	CO869	Connected member	4.76	-0.02	-0.09	-0.14	0
	CO869	Connected member	-2.52	-0.13	-0.43	-0.37	0.89
	CO870	Main member	34.07	-1.72	0.45	0.4	3.25
61	CO870	Continuous member	44.91	-0.51	-1.51	0.54	-0.34
	CO870	Connected member	2.96	-0.02	0.01	0.12	-0.04
	CO870	Connected member	15.16	-0.13	-0.28	0.02	0.84
61	CO871	Main member	42.55	-1.19	0.42	0.41	2.44
	CO871	Continuous member	51.45	-0.45	-1.47	0.49	-0.32
	CO871	Connected member	4.26	-0.04	-0.02	0.06	0.06
61	CO871	Connected member	12.17	-0.13	-0.27	0.02	0.9
	CO872	Main member	-37.71	0.18	-1.41	-0.52	-0.14
	CO872	Continuous member	-36.82	-0.05	1.48	-0.78	-0.04
61	CO872	Connected member	-1.05	-0.01	0.01	0.05	0
	CO872	Connected member	1.61	-0.02	-0.45	-0.31	0.22
	CO873	Main member	-49.37	0.16	-3.13	-1.92	-0.11
61	CO873	Continuous member	-47.02	-0.06	4.36	-2.66	-0.07
	CO873	Connected member	-14.19	-0.01	-0.05	-0.14	0
	CO873	Connected member	6.13	-0.02	-0.54	-0.61	0.23
61	CO874	Main member	-50.89	0.17	-2.97	-1.65	-0.12
	CO874	Continuous member	-55.13	-0.06	4.16	-2.46	-0.07
	CO874	Connected member	-6.45	-0.01	-0.06	-0.17	0
61	CO874	Connected member	-4.5	-0.02	-0.57	-0.64	0.23
	CO875	Main member	-35.48	0.16	-1.76	-0.71	-0.12
	CO875	Continuous member	-26.21	-0.04	1.81	-0.75	-0.03
61	CO875	Connected member	-10.49	-0.01	0.05	0.14	0
	CO875	Connected member	15.02	-0.02	-0.39	-0.19	0.22
	CO876	Main member	-12.14	-1.7	-2.91	-1.58	3.29
61	CO876	Continuous member	-25.66	-0.58	4.21	-2.74	-0.46
	CO876	Connected member	5.18	-0.03	-0.19	-0.39	0.04
	CO876	Connected member	-19.12	-0.13	-0.59	-0.77	0.93
61	CO877	Main member	14.08	-1.71	-1.45	-0.4	3.27
	CO877	Continuous member	12.98	-0.53	1.5	-0.75	-0.37
	CO877	Connected member	3.98	-0.02	-0.07	-0.08	0
61	CO877	Connected member	-1.64	-0.13	-0.41	-0.28	0.87
	CO878	Main member	14.28	-1.7	-1.18	-0.56	3.27
	CO878	Continuous member	13.3	-0.54	1.27	-1.06	-0.4
61	CO878	Connected member	3.97	-0.02	-0.09	-0.14	0
	CO878	Connected member	-1.47	-0.13	-0.43	-0.37	0.89
	CO879	Main member	34.16	-1.72	0.43	0.37	3.25
61	CO879	Continuous member	45.65	-0.51	-1.47	0.51	-0.34
	CO879	Connected member	2.17	-0.02	0.01	0.12	-0.04
	CO879	Connected member	16.21	-0.13	-0.28	0.02	0.84
61	CO880	Main member	42.65	-1.19	0.4	0.37	2.44
	CO880	Continuous member	52.19	-0.45	-1.44	0.45	-0.32
	CO880	Connected member	3.47	-0.04	-0.02	0.06	0.06
61	CO880	Connected member	13.22	-0.13	-0.27	0.02	0.9
	CO881	Main member	-37.62	0.18	-1.43	-0.56	-0.14
	CO881	Continuous member	-36.07	-0.05	1.51	-0.81	-0.04
61	CO881	Connected member	-1.84	-0.01	0.01	0.05	0
	CO881	Connected member	2.66	-0.02	-0.45	-0.31	0.22
	CO882	Main member	-49.27	0.16	-3.14	-1.95	-0.11
61	CO882	Continuous member	-46.28	-0.06	4.39	-2.7	-0.07
	CO882	Connected member	-14.98	-0.01	-0.05	-0.14	0
	CO882	Connected member	7.18	-0.02	-0.54	-0.61	0.23
61	CO883	Main member	-53.09	0.17	-3.43	-1.9	-0.12
	CO883	Continuous member	-59.39	-0.06	4.77	-2.83	-0.07
	CO883	Connected member	-5.47	-0.01	-0.08	-0.21	0
	CO883	Connected member	-7.49	-0.02	-0.59	-0.71	0.23



::LAV/team::

Page: 331/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO884	Main member	-37.68	0.16	-2.21	-0.97	-0.12
	CO884	Continuous member	-30.46	-0.04	2.43	-1.13	-0.03
	CO884	Connected member	-9.5	-0.01	0.04	0.09	0
61	CO884	Connected member	12.03	-0.02	-0.42	-0.26	0.22
	CO885	Main member	-14.33	-1.7	-3.37	-1.84	3.29
	CO885	Continuous member	-29.91	-0.59	4.82	-3.11	-0.46
61	CO885	Connected member	6.17	-0.03	-0.2	-0.43	0.04
	CO885	Connected member	-22.12	-0.13	-0.61	-0.84	0.93
	CO886	Main member	11.88	-1.71	-1.9	-0.65	3.27
61	CO886	Continuous member	8.74	-0.53	2.11	-1.12	-0.38
	CO886	Connected member	4.97	-0.02	-0.09	-0.12	0.01
	CO886	Connected member	-4.63	-0.13	-0.43	-0.35	0.88
61	CO887	Main member	12.08	-1.7	-1.63	-0.81	3.27
	CO887	Continuous member	9.05	-0.55	1.88	-1.43	-0.41
	CO887	Connected member	4.96	-0.03	-0.11	-0.18	0.01
61	CO887	Connected member	-4.46	-0.13	-0.46	-0.44	0.89
	CO888	Main member	31.97	-1.72	-0.03	0.12	3.25
	CO888	Continuous member	41.41	-0.51	-0.86	0.14	-0.34
61	CO888	Connected member	3.16	-0.02	-0.01	0.07	-0.03
	CO888	Connected member	13.22	-0.13	-0.31	-0.05	0.85
61	CO889	Main member	40.45	-1.19	-0.05	0.12	2.45
	CO889	Continuous member	47.95	-0.45	-0.83	0.09	-0.32
	CO889	Connected member	4.46	-0.04	-0.04	0.02	0.06
61	CO889	Connected member	10.23	-0.13	-0.3	-0.05	0.9
	CO890	Main member	-39.82	0.18	-1.89	-0.82	-0.14
	CO890	Continuous member	-40.33	-0.05	2.13	-1.19	-0.04
61	CO890	Connected member	-0.86	-0.01	0	0.01	0
	CO890	Connected member	-0.33	-0.02	-0.47	-0.38	0.22
61	CO891	Main member	-51.47	0.16	-3.6	-2.21	-0.11
	CO891	Continuous member	-50.53	-0.06	5.01	-3.07	-0.07
	CO891	Connected member	-13.99	-0.01	-0.06	-0.18	0
61	CO891	Connected member	4.19	-0.02	-0.56	-0.68	0.23
	CO892	Main member	-52.99	0.17	-3.45	-1.94	-0.12
	CO892	Continuous member	-58.64	-0.06	4.81	-2.87	-0.07
61	CO892	Connected member	-6.26	-0.01	-0.08	-0.21	0
	CO892	Connected member	-6.43	-0.02	-0.59	-0.72	0.23
61	CO893	Main member	-37.58	0.16	-2.23	-1	-0.12
	CO893	Continuous member	-29.71	-0.04	2.46	-1.16	-0.03
	CO893	Connected member	-10.29	-0.01	0.04	0.09	0
61	CO893	Connected member	13.08	-0.02	-0.42	-0.26	0.22
	CO894	Main member	-14.24	-1.7	-3.39	-1.87	3.29
	CO894	Continuous member	-29.16	-0.58	4.86	-3.15	-0.46
61	CO894	Connected member	5.38	-0.03	-0.2	-0.43	0.04
	CO894	Connected member	-21.06	-0.13	-0.61	-0.84	0.93
61	CO895	Main member	11.98	-1.71	-1.92	-0.69	3.27
	CO895	Continuous member	9.48	-0.53	2.15	-1.16	-0.38
	CO895	Connected member	4.18	-0.02	-0.09	-0.13	0
61	CO895	Connected member	-3.57	-0.13	-0.43	-0.35	0.88
	CO896	Main member	12.18	-1.7	-1.65	-0.85	3.27
	CO896	Continuous member	9.8	-0.55	1.91	-1.47	-0.41
61	CO896	Connected member	4.17	-0.02	-0.11	-0.18	0.01
	CO896	Connected member	-3.4	-0.13	-0.46	-0.44	0.89
61	CO897	Main member	32.07	-1.72	-0.05	0.08	3.25
	CO897	Continuous member	42.15	-0.51	-0.83	0.1	-0.34
	CO897	Connected member	2.37	-0.02	-0.01	0.07	-0.03
61	CO897	Connected member	14.28	-0.13	-0.3	-0.05	0.85
	CO898	Main member	40.55	-1.19	-0.07	0.08	2.44
	CO898	Continuous member	48.69	-0.45	-0.79	0.05	-0.32
61	CO898	Connected member	3.67	-0.04	-0.04	0.01	0.06
	CO898	Connected member	11.29	-0.13	-0.3	-0.05	0.9
61	CO899	Main member	-39.72	0.18	-1.9	-0.85	-0.14
	CO899	Continuous member	-39.58	-0.05	2.16	-1.23	-0.04
	CO899	Connected member	-1.65	-0.01	0	0.01	0
61	CO899	Connected member	0.73	-0.02	-0.47	-0.38	0.22
	CO900	Main member	-51.37	0.16	-3.62	-2.25	-0.11
	CO900	Continuous member	-49.78	-0.06	5.05	-3.11	-0.07
61	CO900	Connected member	-14.78	-0.01	-0.06	-0.18	0
	CO900	Connected member	5.24	-0.02	-0.56	-0.68	0.23
61	CO901	Main member	-46.7	0.17	-1.69	-0.83	-0.12
	CO901	Continuous member	-47.65	-0.06	2.38	-1.31	-0.07
	CO901	Connected member	-6.42	-0.01	-0.01	-0.03	0
61	CO901	Connected member	-0.06	-0.02	-0.5	-0.45	0.23
	CO902	Main member	-31.29	0.16	-0.48	0.1	-0.12
	CO902	Continuous member	-18.73	-0.04	0.05	0.38	-0.03
61	CO902	Connected member	-10.46	-0.01	0.1	0.27	-0.01
	CO902	Connected member	19.46	-0.02	-0.32	0.01	0.22
61	CO903	Main member	-7.96	-1.7	-1.63	-0.77	3.29
	CO903	Continuous member	-18.18	-0.58	2.44	-1.6	-0.45
	CO903	Connected member	5.2	-0.03	-0.13	-0.25	0.02
61	CO903	Connected member	-14.68	-0.13	-0.52	-0.58	0.92
	CO904	Main member	18.26	-1.72	-0.17	0.41	3.27
	CO904	Continuous member	20.45	-0.52	-0.26	0.37	-0.37
61	CO904	Connected member	4	-0.02	-0.02	0.05	-0.01
	CO904	Connected member	2.8	-0.13	-0.34	-0.09	0.86
61	CO905	Main member	18.45	-1.71	0.1	0.25	3.26
	CO905	Continuous member	20.77	-0.54	-0.49	0.06	-0.4
	CO905	Connected member	3.99	-0.02	-0.04	-0.01	-0.01
61	CO905	Connected member	2.97	-0.13	-0.37	-0.18	0.88
	CO906	Main member	38.34	-1.72	1.7	1.17	3.25
	CO906	Continuous member	53.12	-0.5	-3.23	1.63	-0.33
61	CO906	Connected member	2.19	-0.01	0.06	0.25	-0.05
	CO906	Connected member	20.65	-0.13	-0.21	0.21	0.83
61	CO907	Main member	46.82	-1.19	1.68	1.17	2.44
	CO907	Continuous member	59.66	-0.45	-3.19	1.57	-0.31



::LAV/team::

Page: 332/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO907	Connected member	3.49	-0.04	0.03	0.19	0.05
	CO907	Connected member	17.66	-0.13	-0.21	0.21	0.89
	CO908	Main member	-33.43	0.18	-0.15	0.25	-0.14
61	CO908	Continuous member	-28.59	-0.05	-0.26	0.32	-0.04
	CO908	Connected member	-1.82	-0.01	0.07	0.19	0
	CO908	Connected member	7.1	-0.02	-0.38	-0.11	0.22
61	CO909	Main member	-45.08	0.16	-1.86	-1.14	-0.11
	CO909	Continuous member	-38.79	-0.06	2.62	-1.56	-0.07
	CO909	Connected member	-14.95	-0.01	0.01	0	-0.01
61	CO909	Connected member	11.62	-0.02	-0.47	-0.41	0.23
	CO910	Main member	-46.6	0.17	-1.71	-0.87	-0.12
	CO910	Continuous member	-46.9	-0.06	2.42	-1.35	-0.07
61	CO910	Connected member	-7.21	-0.01	-0.01	-0.03	0
	CO910	Connected member	1	-0.02	-0.5	-0.45	0.23
	CO911	Main member	-31.19	0.16	-0.49	0.06	-0.12
61	CO911	Continuous member	-17.98	-0.04	0.08	0.34	-0.03
	CO911	Connected member	-11.25	-0.01	0.1	0.27	-0.01
	CO911	Connected member	20.51	-0.02	-0.32	0.01	0.22
61	CO912	Main member	-7.86	-1.7	-1.65	-0.81	3.29
	CO912	Continuous member	-17.44	-0.58	2.48	-1.64	-0.45
	CO912	Connected member	4.41	-0.03	-0.13	-0.25	0.02
61	CO912	Connected member	-13.63	-0.13	-0.52	-0.58	0.92
	CO913	Main member	18.35	-1.71	-0.19	0.37	3.27
	CO913	Continuous member	21.2	-0.52	-0.22	0.34	-0.37
61	CO913	Connected member	3.21	-0.02	-0.02	0.05	-0.01
	CO913	Connected member	3.85	-0.13	-0.34	-0.09	0.86
	CO914	Main member	18.55	-1.71	0.08	0.21	3.26
61	CO914	Continuous member	21.52	-0.54	-0.46	0.03	-0.4
	CO914	Connected member	3.2	-0.02	-0.04	-0.01	-0.01
	CO914	Connected member	4.03	-0.13	-0.36	-0.18	0.88
61	CO915	Main member	38.44	-1.72	1.69	1.13	3.25
	CO915	Continuous member	53.87	-0.5	-3.19	1.59	-0.33
	CO915	Connected member	1.4	-0.01	0.06	0.25	-0.05
61	CO915	Connected member	21.7	-0.13	-0.21	0.21	0.83
	CO916	Main member	46.92	-1.19	1.66	1.14	2.44
	CO916	Continuous member	60.4	-0.45	-3.16	1.53	-0.31
61	CO916	Connected member	2.7	-0.04	0.03	0.19	0.05
	CO916	Connected member	18.71	-0.13	-0.2	0.21	0.89
	CO917	Main member	-33.33	0.18	-0.17	0.21	-0.14
61	CO917	Continuous member	-27.85	-0.05	-0.22	0.28	-0.04
	CO917	Connected member	-2.61	-0.01	0.07	0.18	0
	CO917	Connected member	8.16	-0.02	-0.38	-0.12	0.22
61	CO918	Main member	-44.98	0.16	-1.88	-1.18	-0.1
	CO918	Continuous member	-38.05	-0.06	2.66	-1.6	-0.07
	CO918	Connected member	-15.74	-0.01	0.01	0	-0.01
61	CO918	Connected member	12.67	-0.02	-0.47	-0.42	0.23
	CO919	Main member	-44.6	0.17	-1.22	-0.54	-0.12
	CO919	Continuous member	-44.15	-0.06	1.73	-0.9	-0.07
61	CO919	Connected member	-6.62	-0.01	0	0.01	0
	CO919	Connected member	1.88	-0.02	-0.47	-0.38	0.23
	CO920	Main member	-29.19	0.16	0	0.39	-0.12
61	CO920	Continuous member	-15.22	-0.04	-0.6	0.79	-0.03
	CO920	Connected member	-10.66	-0.01	0.12	0.32	-0.01
	CO920	Connected member	21.39	-0.02	-0.3	0.08	0.22
61	CO921	Main member	-5.86	-1.7	-1.15	-0.48	3.28
	CO921	Continuous member	-14.68	-0.57	1.79	-1.19	-0.45
	CO921	Connected member	5.01	-0.03	-0.12	-0.21	0.02
61	CO921	Connected member	-12.74	-0.13	-0.5	-0.51	0.91
	CO922	Main member	20.36	-1.72	0.31	0.7	3.26
	CO922	Continuous member	23.95	-0.52	-0.91	0.78	-0.36
61	CO922	Connected member	3.8	-0.02	0	0.1	-0.02
	CO922	Connected member	4.74	-0.13	-0.32	-0.02	0.86
	CO923	Main member	20.55	-1.71	0.58	0.54	3.26
61	CO923	Continuous member	24.27	-0.54	-1.14	0.47	-0.4
	CO923	Connected member	3.79	-0.02	-0.02	0.04	-0.02
	CO923	Connected member	4.91	-0.13	-0.34	-0.11	0.87
61	CO924	Main member	40.44	-1.72	2.18	1.46	3.25
	CO924	Continuous member	56.62	-0.5	-3.87	2.03	-0.33
	CO924	Connected member	1.99	-0.01	0.07	0.29	-0.05
61	CO924	Connected member	22.58	-0.13	-0.19	0.28	0.83
	CO925	Main member	48.92	-1.19	2.16	1.46	2.44
	CO925	Continuous member	63.16	-0.44	-3.84	1.98	-0.31
61	CO925	Connected member	3.29	-0.04	0.04	0.24	0.04
	CO925	Connected member	19.59	-0.13	-0.18	0.28	0.89
	CO926	Main member	-31.33	0.18	0.33	0.54	-0.14
61	CO926	Continuous member	-25.09	-0.05	-0.91	0.73	-0.04
	CO926	Connected member	-2.01	-0.01	0.08	0.23	0
	CO926	Connected member	9.04	-0.02	-0.36	-0.04	0.22
61	CO927	Main member	-42.98	0.16	-1.39	-0.85	-0.11
	CO927	Continuous member	-35.29	-0.06	1.97	-1.15	-0.07
	CO927	Connected member	-15.14	-0.01	0.02	0.04	-0.01
61	CO927	Connected member	13.56	-0.02	-0.44	-0.34	0.23
	CO928	Main member	-44.5	0.17	-1.23	-0.58	-0.12
	CO928	Continuous member	-43.4	-0.06	1.77	-0.94	-0.07
61	CO928	Connected member	-7.41	-0.01	0	0.01	0
	CO928	Connected member	2.93	-0.02	-0.47	-0.38	0.23
	CO929	Main member	-29.09	0.16	-0.02	0.35	-0.12
61	CO929	Continuous member	-14.48	-0.04	-0.57	0.75	-0.03
	CO929	Connected member	-11.44	-0.01	0.12	0.32	-0.01
	CO929	Connected member	22.44	-0.02	-0.3	0.08	0.22
61	CO930	Main member	-5.76	-1.7	-1.17	-0.52	3.28
	CO930	Continuous member	-13.94	-0.57	1.83	-1.23	-0.45
	CO930	Connected member	4.22	-0.03	-0.12	-0.21	0.02
	CO930	Connected member	-11.69	-0.13	-0.5	-0.51	0.91



::LAVteam::

Page: 333/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO931	Main member	20.45	-1.72	0.29	0.66	3.26
	CO931	Continuous member	24.7	-0.52	-0.87	0.74	-0.36
	CO931	Connected member	3.01	-0.02	0	0.1	-0.02
61	CO931	Connected member	5.79	-0.13	-0.31	-0.02	0.86
	CO932	Main member	20.65	-1.71	0.56	0.5	3.26
	CO932	Continuous member	25.02	-0.54	-1.11	0.43	-0.4
61	CO932	Connected member	3	-0.02	-0.02	0.04	-0.02
	CO932	Connected member	5.96	-0.13	-0.34	-0.11	0.87
	CO933	Main member	40.54	-1.72	2.16	1.42	3.25
61	CO933	Continuous member	57.36	-0.5	-3.84	1.99	-0.33
	CO933	Connected member	1.21	-0.01	0.07	0.29	-0.06
	CO933	Connected member	23.64	-0.13	-0.19	0.28	0.83
61	CO934	Main member	49.02	-1.19	2.14	1.42	2.44
	CO934	Continuous member	63.9	-0.44	-3.8	1.94	-0.31
	CO934	Connected member	2.51	-0.04	0.04	0.24	0.04
61	CO934	Connected member	20.64	-0.13	-0.18	0.28	0.89
	CO935	Main member	-31.23	0.18	0.31	0.5	-0.14
	CO935	Continuous member	-24.34	-0.05	-0.87	0.69	-0.04
61	CO935	Connected member	-2.8	-0.01	0.08	0.23	0
	CO935	Connected member	10.09	-0.02	-0.35	-0.05	0.22
	CO936	Main member	-42.88	0.16	-1.4	-0.89	-0.1
61	CO936	Continuous member	-34.54	-0.06	2.01	-1.19	-0.07
	CO936	Connected member	-15.93	-0.01	0.02	0.04	-0.01
	CO936	Connected member	14.61	-0.02	-0.44	-0.34	0.23
61	CO937	Main member	-9.92	0.01	-0.3	0.06	-0.01
	CO937	Continuous member	-16.22	0	0.68	-0.45	-0.01
	CO937	Connected member	4.02	0	-0.07	-0.09	0.01
61	CO937	Connected member	-9.19	0	-0.48	-0.42	0.01
	CO938	Main member	-16.3	0.01	-2.04	-1	-0.01
	CO938	Continuous member	-27.94	-0.01	3.06	-1.96	-0.01
61	CO938	Connected member	4.99	0	-0.14	-0.27	0.01
	CO938	Connected member	-16.63	0	-0.57	-0.68	0.01
	CO939	Main member	-18.4	0.01	-2.51	-1.29	-0.01
61	CO939	Continuous member	-31.45	-0.01	3.71	-2.37	-0.01
	CO939	Connected member	5.19	0	-0.15	-0.32	0.01
	CO939	Connected member	-18.57	0	-0.59	-0.75	0.02
61	CO940	Main member	-12.02	0.01	-0.77	-0.23	-0.01
	CO940	Continuous member	-19.72	0	1.33	-0.86	-0.01
	CO940	Connected member	4.22	0	-0.08	-0.14	0.01
61	CO940	Connected member	-11.13	0	-0.5	-0.49	0.01
	CO941	Main member	-11.32	0.01	-0.61	-0.13	-0.01
	CO941	Continuous member	-18.55	0	1.11	-0.72	-0.01
61	CO941	Connected member	4.16	0	-0.08	-0.13	0.01
	CO941	Connected member	-10.49	0	-0.5	-0.47	0.01
	CO942	Main member	-11.28	0.01	-0.62	-0.15	-0.01
61	CO942	Continuous member	-18.25	0	1.13	-0.74	-0.01
	CO942	Connected member	3.84	0	-0.08	-0.13	0.01
	CO942	Connected member	-10.06	0	-0.5	-0.47	0.01
61	CO943	Main member	-17.7	0.01	-2.35	-1.2	-0.01
	CO943	Continuous member	-30.28	-0.01	3.5	-2.23	-0.01
	CO943	Connected member	5.12	0	-0.15	-0.3	0.01
61	CO943	Connected member	-17.92	0	-0.59	-0.73	0.02
	CO944	Main member	-17.66	0.01	-2.36	-1.21	-0.01
	CO944	Continuous member	-29.98	-0.01	3.51	-2.25	-0.01
61	CO944	Connected member	4.81	0	-0.15	-0.3	0.01
	CO944	Connected member	-17.5	0	-0.59	-0.73	0.02
61	CO945	Main member	-19.8	0.01	-2.83	-1.49	-0.01
	CO945	Continuous member	-33.78	-0.01	4.15	-2.64	-0.01
	CO945	Connected member	5.32	0	-0.17	-0.35	0.01
61	CO945	Connected member	-19.86	0	-0.61	-0.8	0.02
	CO946	Main member	-19.76	0.01	-2.84	-1.5	-0.01
	CO946	Continuous member	-33.48	-0.01	4.16	-2.66	-0.01
61	CO946	Connected member	5	0	-0.17	-0.35	0.01
	CO946	Connected member	-19.44	0	-0.61	-0.8	0.02
61	CO947	Main member	-13.42	0.01	-1.09	-0.42	-0.01
	CO947	Continuous member	-22.05	0	1.76	-1.13	-0.01
	CO947	Connected member	4.35	0	-0.1	-0.17	0.01
61	CO947	Connected member	-12.43	0	-0.52	-0.54	0.01
	CO948	Main member	-13.38	0.01	-1.1	-0.44	-0.01
	CO948	Continuous member	-21.76	0	1.78	-1.15	-0.01
61	CO948	Connected member	4.04	0	-0.1	-0.17	0.01
	CO948	Connected member	-12	0	-0.52	-0.54	0.01
61	CO949	Main member	-16.16	0.04	-0.32	0.04	-0.03
	CO949	Continuous member	-20.63	-0.02	0.67	-0.4	-0.02
	CO949	Connected member	1.83	0	-0.05	-0.06	0
61	CO949	Connected member	-6.33	-0.01	-0.47	-0.39	0.06
	CO950	Main member	-13.08	0.04	-0.08	0.23	-0.03
	CO950	Continuous member	-14.85	-0.01	0.21	-0.07	-0.01
61	CO950	Connected member	1.02	0	-0.02	0	0
	CO950	Connected member	-2.43	0	-0.44	-0.3	0.05
	CO951	Main member	-8.41	-0.34	-0.31	0.05	0.65
61	CO951	Continuous member	-14.74	-0.12	0.69	-0.46	-0.09
	CO951	Connected member	4.15	-0.01	-0.07	-0.1	0
	CO951	Connected member	-9.26	-0.03	-0.48	-0.41	0.19
61	CO952	Main member	-3.17	-0.34	-0.02	0.29	0.66
	CO952	Continuous member	-7.01	-0.11	0.14	-0.07	-0.08
	CO952	Connected member	3.91	-0.01	-0.05	-0.04	0
61	CO952	Connected member	-5.76	-0.03	-0.44	-0.31	0.18
	CO953	Main member	-3.13	-0.34	0.04	0.26	0.66
	CO953	Continuous member	-6.95	-0.12	0.1	-0.13	-0.09
61	CO953	Connected member	3.91	-0.01	-0.05	-0.05	0
	CO953	Connected member	-5.73	-0.03	-0.44	-0.33	0.19
61	CO954	Main member	0.85	-0.34	0.36	0.44	0.66
	CO954	Continuous member	-0.48	-0.11	-0.45	0.19	-0.08



::LAV/team::

Page: 334/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO954	Connected member	3.55	-0.01	-0.03	0	0
	CO954	Connected member	-2.19	-0.03	-0.41	-0.25	0.18
	CO955	Main member	2.55	-0.24	0.35	0.44	0.5
61	CO955	Continuous member	0.83	-0.1	-0.45	0.18	-0.08
	CO955	Connected member	3.81	-0.01	-0.04	-0.01	0.02
	CO955	Connected member	-2.79	-0.03	-0.41	-0.25	0.19
61	CO956	Main member	-13.51	0.04	-0.01	0.26	-0.03
	CO956	Continuous member	-16.82	-0.01	0.15	-0.08	-0.01
	CO956	Connected member	2.75	0	-0.03	-0.01	0
61	CO956	Connected member	-4.9	0	-0.45	-0.32	0.05
	CO957	Main member	-15.84	0.04	-0.36	-0.02	-0.03
	CO957	Continuous member	-18.86	-0.02	0.72	-0.45	-0.02
61	CO957	Connected member	0.12	0	-0.04	-0.05	0
	CO957	Connected member	-3.99	-0.01	-0.46	-0.38	0.06
	CO958	Main member	-22.53	0.04	-2.06	-1.03	-0.03
61	CO958	Continuous member	-32.36	-0.02	3.06	-1.91	-0.02
	CO958	Connected member	2.79	0	-0.12	-0.24	0
	CO958	Connected member	-13.77	-0.01	-0.56	-0.65	0.06
61	CO959	Main member	-19.46	0.04	-1.82	-0.84	-0.03
	CO959	Continuous member	-26.58	-0.01	2.59	-1.57	-0.01
	CO959	Connected member	1.98	0	-0.09	-0.17	0
61	CO959	Connected member	-9.86	0	-0.53	-0.56	0.05
	CO960	Main member	-14.78	-0.33	-2.05	-1.01	0.65
	CO960	Continuous member	-26.47	-0.12	3.07	-1.97	-0.1
61	CO960	Connected member	5.12	-0.01	-0.14	-0.28	0.01
	CO960	Connected member	-16.7	-0.03	-0.57	-0.68	0.2
	CO961	Main member	-9.54	-0.34	-1.75	-0.78	0.65
61	CO961	Continuous member	-18.74	-0.11	2.52	-1.57	-0.09
	CO961	Connected member	4.88	-0.01	-0.12	-0.22	0.01
	CO961	Connected member	-13.2	-0.03	-0.53	-0.58	0.19
61	CO962	Main member	-9.5	-0.34	-1.7	-0.81	0.65
	CO962	Continuous member	-18.67	-0.12	2.48	-1.63	-0.09
	CO962	Connected member	4.88	-0.01	-0.12	-0.23	0.01
61	CO962	Connected member	-13.16	-0.03	-0.54	-0.6	0.19
	CO963	Main member	-5.52	-0.34	-1.38	-0.62	0.66
	CO963	Continuous member	-12.2	-0.11	1.93	-1.31	-0.08
61	CO963	Connected member	4.52	-0.01	-0.1	-0.18	0.01
	CO963	Connected member	-9.62	-0.03	-0.5	-0.52	0.19
	CO964	Main member	-3.83	-0.24	-1.38	-0.62	0.5
61	CO964	Continuous member	-10.89	-0.1	1.93	-1.33	-0.08
	CO964	Connected member	4.78	-0.01	-0.11	-0.19	0.02
	CO964	Connected member	-10.22	-0.03	-0.5	-0.52	0.2
61	CO965	Main member	-19.88	0.04	-1.75	-0.81	-0.04
	CO965	Continuous member	-28.55	-0.01	2.53	-1.58	-0.01
	CO965	Connected member	3.71	0	-0.1	-0.19	0
61	CO965	Connected member	-12.33	0	-0.54	-0.58	0.06
	CO966	Main member	-22.21	0.04	-2.1	-1.09	-0.03
	CO966	Continuous member	-30.59	-0.02	3.1	-1.96	-0.02
61	CO966	Connected member	1.09	0	-0.11	-0.23	0
	CO966	Connected member	-11.43	-0.01	-0.56	-0.64	0.06
	CO967	Main member	-24.64	0.04	-2.54	-1.32	-0.03
61	CO967	Continuous member	-35.86	-0.02	3.71	-2.32	-0.02
	CO967	Connected member	2.99	0	-0.13	-0.28	0
	CO967	Connected member	-15.71	-0.01	-0.59	-0.72	0.06
61	CO968	Main member	-21.56	0.04	-2.29	-1.13	-0.03
	CO968	Continuous member	-30.08	-0.01	3.24	-1.98	-0.01
	CO968	Connected member	2.18	0	-0.11	-0.22	0
61	CO968	Connected member	-11.8	0	-0.55	-0.63	0.06
	CO969	Main member	-16.88	-0.33	-2.52	-1.31	0.65
	CO969	Continuous member	-29.97	-0.12	3.72	-2.38	-0.1
61	CO969	Connected member	5.32	-0.01	-0.16	-0.33	0.01
	CO969	Connected member	-18.63	-0.03	-0.59	-0.75	0.2
	CO970	Main member	-11.64	-0.34	-2.23	-1.07	0.65
61	CO970	Continuous member	-22.24	-0.12	3.17	-1.98	-0.09
	CO970	Connected member	5.08	-0.01	-0.13	-0.27	0.01
	CO970	Connected member	-15.14	-0.03	-0.55	-0.65	0.19
61	CO971	Main member	-11.6	-0.34	-2.18	-1.1	0.65
	CO971	Continuous member	-22.18	-0.12	3.13	-2.04	-0.09
	CO971	Connected member	5.08	-0.01	-0.14	-0.28	0.01
61	CO971	Connected member	-15.1	-0.03	-0.56	-0.67	0.19
	CO972	Main member	-7.62	-0.34	-1.86	-0.91	0.66
	CO972	Continuous member	-15.7	-0.11	2.58	-1.72	-0.08
61	CO972	Connected member	4.72	-0.01	-0.12	-0.22	0.01
	CO972	Connected member	-11.56	-0.03	-0.53	-0.59	0.19
	CO973	Main member	-5.93	-0.24	-1.86	-0.91	0.5
61	CO973	Continuous member	-14.39	-0.1	2.58	-1.73	-0.08
	CO973	Connected member	4.98	-0.01	-0.13	-0.24	0.02
	CO973	Connected member	-12.16	-0.03	-0.53	-0.59	0.2
61	CO974	Main member	-21.98	0.04	-2.23	-1.1	-0.04
	CO974	Continuous member	-32.05	-0.01	3.18	-1.99	-0.01
	CO974	Connected member	3.91	0	-0.12	-0.24	0.01
61	CO974	Connected member	-14.27	0	-0.56	-0.65	0.06
	CO975	Main member	-24.31	0.04	-2.57	-1.38	-0.03
	CO975	Continuous member	-34.09	-0.02	3.75	-2.37	-0.02
61	CO975	Connected member	1.28	0	-0.13	-0.28	0
	CO975	Connected member	-13.37	-0.01	-0.58	-0.71	0.06
	CO976	Main member	-18.26	0.04	-0.8	-0.25	-0.03
61	CO976	Continuous member	-24.14	-0.02	1.32	-0.81	-0.02
	CO976	Connected member	2.03	0	-0.06	-0.1	0
	CO976	Connected member	-8.27	-0.01	-0.49	-0.46	0.06
61	CO977	Main member	-15.18	0.04	-0.55	-0.07	-0.03
	CO977	Continuous member	-18.36	-0.01	0.86	-0.47	-0.01
	CO977	Connected member	1.21	0	-0.04	-0.04	0
	CO977	Connected member	-4.36	0	-0.46	-0.37	0.05



::LAV/team::

Page: 335/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

main model

1.3 LOADS

Node No.	Load-ing	Member	Axial force N [kN]	Shear force V _y [kN]	Shear force V _z [kN]	Moment M _y [kNm]	Moment M _z [kNm]
61	CO978	Main member	-10.51	-0.34	-0.78	-0.24	0.65
	CO978	Continuous member	-18.25	-0.12	1.34	-0.87	-0.1
	CO978	Connected member	4.35	-0.01	-0.09	-0.15	0
	CO978	Connected member	-11.2	-0.03	-0.5	-0.48	0.19
61	CO979	Main member	-5.27	-0.34	-0.49	0	0.66
	CO979	Continuous member	-10.52	-0.11	0.79	-0.47	-0.08
	CO979	Connected member	4.11	-0.01	-0.07	-0.09	0
	CO979	Connected member	-7.7	-0.03	-0.46	-0.39	0.19
61	CO980	Main member	-5.23	-0.34	-0.44	-0.04	0.66
	CO980	Continuous member	-10.45	-0.12	0.75	-0.54	-0.09
	CO980	Connected member	4.11	-0.01	-0.07	-0.1	0
	CO980	Connected member	-7.66	-0.03	-0.47	-0.4	0.19
61	CO981	Main member	-1.25	-0.34	-0.12	0.15	0.66
	CO981	Continuous member	-3.98	-0.11	0.2	-0.22	-0.08
	CO981	Connected member	3.75	-0.01	-0.05	-0.05	0
	CO981	Connected member	-4.13	-0.03	-0.44	-0.33	0.18
61	CO982	Main member	0.45	-0.24	-0.12	0.15	0.5
	CO982	Continuous member	-2.67	-0.1	0.2	-0.23	-0.08
	CO982	Connected member	4.01	-0.01	-0.06	-0.06	0.02
	CO982	Connected member	-4.72	-0.03	-0.44	-0.32	0.19
61	CO983	Main member	-15.61	0.04	-0.49	-0.04	-0.03
	CO983	Continuous member	-20.33	-0.01	0.8	-0.49	-0.01
	CO983	Connected member	2.94	0	-0.05	-0.06	0
	CO983	Connected member	-6.84	0	-0.47	-0.39	0.05
61	CO984	Main member	-17.94	0.04	-0.83	-0.31	-0.03
	CO984	Continuous member	-22.37	-0.02	1.37	-0.86	-0.02
	CO984	Connected member	0.32	0	-0.06	-0.1	0
	CO984	Connected member	-5.93	-0.01	-0.49	-0.45	0.06
61	CO989	Main member	-9.92	0.01	-0.3	0.06	-0.01
	CO989	Continuous member	-16.22	0	0.68	-0.45	-0.01
	CO989	Connected member	4.02	0	-0.07	-0.09	0.01
	CO989	Connected member	-9.19	0	-0.48	-0.42	0.01
61	CO990	Main member	-9.92	0.01	-0.3	0.06	-0.01
	CO990	Continuous member	-16.22	0	0.68	-0.45	-0.01
	CO990	Connected member	4.02	0	-0.07	-0.09	0.01
	CO990	Connected member	-9.19	0	-0.48	-0.42	0.01
61	CO991	Main member	-16.3	0.01	-2.04	-1	-0.01
	CO991	Continuous member	-27.94	-0.01	3.06	-1.96	-0.01
	CO991	Connected member	4.99	0	-0.14	-0.27	0.01
	CO991	Connected member	-16.63	0	-0.57	-0.68	0.01
61	CO992	Main member	-16.3	0.01	-2.04	-1	-0.01
	CO992	Continuous member	-27.94	-0.01	3.06	-1.96	-0.01
	CO992	Connected member	4.99	0	-0.14	-0.27	0.01
	CO992	Connected member	-16.63	0	-0.57	-0.68	0.01
61	CO993	Main member	-18.4	0.01	-2.51	-1.29	-0.01
	CO993	Continuous member	-31.45	-0.01	3.71	-2.37	-0.01
	CO993	Connected member	5.19	0	-0.15	-0.32	0.01
	CO993	Connected member	-18.57	0	-0.59	-0.75	0.02
61	CO994	Main member	-18.4	0.01	-2.51	-1.29	-0.01
	CO994	Continuous member	-31.45	-0.01	3.71	-2.37	-0.01
	CO994	Connected member	5.19	0	-0.15	-0.32	0.01
	CO994	Connected member	-18.57	0	-0.59	-0.75	0.02
61	CO995	Main member	-12.02	0.01	-0.77	-0.23	-0.01
	CO995	Continuous member	-19.72	0	1.33	-0.86	-0.01
	CO995	Connected member	4.22	0	-0.08	-0.14	0.01
	CO995	Connected member	-11.13	0	-0.5	-0.49	0.01
61	CO996	Main member	-12.02	0.01	-0.77	-0.23	-0.01
	CO996	Continuous member	-19.72	0	1.33	-0.86	-0.01
	CO996	Connected member	4.22	0	-0.08	-0.14	0.01
	CO996	Connected member	-11.13	0	-0.5	-0.49	0.01

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Basic Geometry of the Joint			
Main member			
Member			
Length	l	3.03	m
Height	h	280	mm
Thickness	t	260	mm
Cross-Sectional Area	A	728	cm ²
Steel Plate			
Number of steel plates	n _{pl}	1	
Height	h	144	mm
Thickness	t	8	mm
Cross-Sectional Area	A	11.52	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n _{dx}	4	
Number of bolt rows (z-direction)	n _{dz}	3	
Distance between bolt columns	a ₁	50	mm
Distance between bolt rows	a ₂	40	mm
Distance from loaded end to bolt in grain direction	a _{3,t}	-75	mm
Distance between fastener and edge No. 1	a _{4,1}	100	mm
Distance between fastener and edge No. 2	a _{4,2}	100	mm
Eccentricity	e _z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K _{ser}	179.63	MN/m
Slip Modulus for ULS	K _u	92.12	MN/m
Polar moment of inertia	I _p	503	cm ²



::LAVteam::

Page: 336/337

Sheet: 1

JOINTS

Project: Examples

Model: PGTrussBU2

Date: 16/07/2023

Sample structures

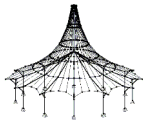
main model

1.4 GEOMETRY DETAILS

Component	Symbol	Value	Unit
Rotation Modulus for SLS	C_{ser}	0.75	MNm/rad
Rotation Modulus for ULS	C_u	0.39	MNm/rad
Bolts			
Total number of bolts		12	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	260	mm
Connected Member No. 1			
Member			
Length	l	4.88	m
Height	h	260	mm
Thickness	t	260	mm
Cross-Sectional Area	A	676	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	144	mm
Thickness	t	8	mm
Cross-Sectional Area	A	11.52	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	3	
Number of bolt rows (z-direction)	n_{dz}	3	
Distance between bolt columns	a_1	50	mm
Distance between bolt rows	a_2	40	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	80	mm
Distance between fastener and edge No. 1	$a_{4,1}$	90	mm
Distance between fastener and edge No. 2	$a_{4,2}$	90	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	134.73	MN/m
Slip Modulus for ULS	K_u	69.09	MN/m
Polar moment of inertia	I_p	246	cm ²
Rotation Modulus for SLS	C_{ser}	0.37	MNm/rad
Rotation Modulus for ULS	C_u	0.19	MNm/rad
Bolts			
Total number of bolts		9	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	260	mm
Connected Member No. 2			
Member			
Length	l	3.85	m
Height	h	220	mm
Thickness	t	220	mm
Cross-Sectional Area	A	484	cm ²
Steel Plate			
Number of steel plates	n_{pl}	1	
Height	h	104	mm
Thickness	t	8	mm
Cross-Sectional Area	A	8.32	cm ²
Bolt Group			
Pattern		Rectangle	
Number of bolt columns (x-direction)	n_{dx}	3	
Number of bolt rows (z-direction)	n_{dz}	2	
Distance between bolt columns	a_1	50	mm
Distance between bolt rows	a_2	40	mm
Distance from loaded end to bolt in grain direction	$a_{3,t}$	80	mm
Distance between fastener and edge No. 1	$a_{4,1}$	90	mm
Distance between fastener and edge No. 2	$a_{4,2}$	90	mm
Eccentricity	e_z	0	mm
Chamfer angle	α	0	°
Rotation	β	0	°
Slip Modulus for SLS	K_{ser}	89.82	MN/m
Slip Modulus for ULS	K_u	46.06	MN/m
Polar moment of inertia	I_p	124	cm ²
Rotation Modulus for SLS	C_{ser}	0.19	MNm/rad
Rotation Modulus for ULS	C_u	0.1	MNm/rad
Bolts			
Total number of bolts		6	
Bolt types		1	
Diameter	d	10	mm
Area	A	0.79	cm ²
Length	l	220	mm

2.1 SUMMARY

	Governing Node	Load Case	Check Ratio	Check formula
Main member				
61	CO522	0.23	≤ 1	5004) Steel plates - Shear Resistance acc. to EN 1993-1-1, 6.2.6
61	CO35	0.13	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
61	CO35	0.32	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
61	CO35	0.58	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
61	CO7	0.91	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
61	CO12	0.11	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4



::LAV/team::

Page: 337/337

Sheet: 1

JOINTSProject: Examples
Sample structuresModel: PGTrussBU2
main model

Date: 16/07/2023

2.1 SUMMARY

Governing		Check		Check formula
Node	Load Case	Ratio		
61	CO7	0.56	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
61	CO7	0.31	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
61	CO7	0.45	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
61	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
61	CO7	0.21	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
61	CO7	0.19	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
61	CO522	0.12	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
61	CO523	0.18	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
Connected Member No. 1				
61	CO35	0.18	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
61	CO11	0.41	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
61	CO7	0.95	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
61	CO11	0.14	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
61	CO7	0.03	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
61	CO7	0.17	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
61	CO7	0.23	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
61	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
61	CO7	0.02	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7
61	CO7	0.05	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
61	CO522	0.16	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
61	CO522	0.19	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
61	CO522	0.14	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
61	CO522	0.06	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
Connected Member No. 2				
61	CO35	0.05	≤ 1	5000) Steel plates - Tension resistance acc. to EN 1993-1-1, 6.2.3
61	CO35	0.06	≤ 1	5001) Steel plates - Tension resistance - Net cross-section acc. to EN 1993-1-1, 6.2.3
61	CO35	0.33	≤ 1	5005) Steel plates - Bending, shear and axial force resistance acc. to EN 1993-1-1, 6.2.10
61	CO7	0.52	≤ 1	6010) Bolt group - Load carrying capacity of single bolt acc. to 8.2.3 and 8.5
61	CO525	0.08	≤ 1	5009) Steel plates - Bearing resistance acc. to EN 1993-1-8, Tab. 3.4
61	CO7	0.10	≤ 1	6030) Bolt group - Block shear and plug shear failure at multiple dowel-type steel-to-timber connections acc. to Annex A
61	CO7	0.18	≤ 1	6146) Timber cross-section - Additional shear in net cross-section due to moment
61	CO7	0.26	≤ 1	6033) Bolt group - Connection forces at angle to the grain due to moment
61	CO996	OK		6500) Bolt group geometry - Minimum spacing, edge and end distances for bolts acc. to Tab. 8.4
61	CO7	0.06	≤ 1	6144) Timber cross-section - Tension and bending in net cross-section acc. to 6.2.3
61	CO7	0.02	≤ 1	6034) Bolt group - Connection forces at angle to the grain acc. to 8.1.4
61	CO624	0.13	≤ 1	5002) Steel plates - Compression resistance acc. to EN 1993-1-1, 6.2.4
61	CO42	0.03	≤ 1	6145) Timber cross-section - Compression and bending in net cross-section acc. to 6.2.4
61	CO7	0.01	≤ 1	6142) Timber cross-section - Shear in net cross-section acc. to 6.1.7