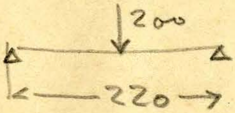
Tirante ⑨

Tension 800 Kg plano de 8 × 40

Tirante ②

Tension 10000 Kg 2 planos de 8 × 70

Peso-cielorraso à 50 Kg/m² (1'10 × 3'70 × 50 = 203 Kg)



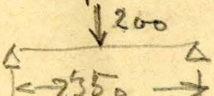
$M = \frac{200}{2} \times \frac{220}{2} = 11000$ Kg. cm.

$\sigma = \frac{10000}{18'60} \pm \frac{11000}{28} = 537'63 + 392'48 = 930'48$ Kg/cm²

Para][60-34-10 y 7'30 Kg. m.l. → angulos [87×75×10 / 76×76×9

Par ①

Compresión 10000 Kg



à (1'175 × 3'70 × 50 = 217 Kg)

$M = \frac{200}{2} \times \frac{235}{2} = 12000$ Kg cm.

$\sigma = \frac{10000}{18'60} \pm \frac{12000}{28'00} = 537'63 + 428'57 = 966'20$ Kg/cm²

Para][60-34-10 y 7'30 Kg m.l.

Tornapunta ⑪

Compresion = 2000 Kg. $I_{min} \geqq 2'5 P L^2$

longitud = 2'85

$I_m \geqq 2'5 \times 2 \times \overline{2'85}^2 = 5 \times 8'1225 = 40'61$ cm⁴

2 ⅃L de 55-55-8 ∴ $I_m = 44'20$ cm²

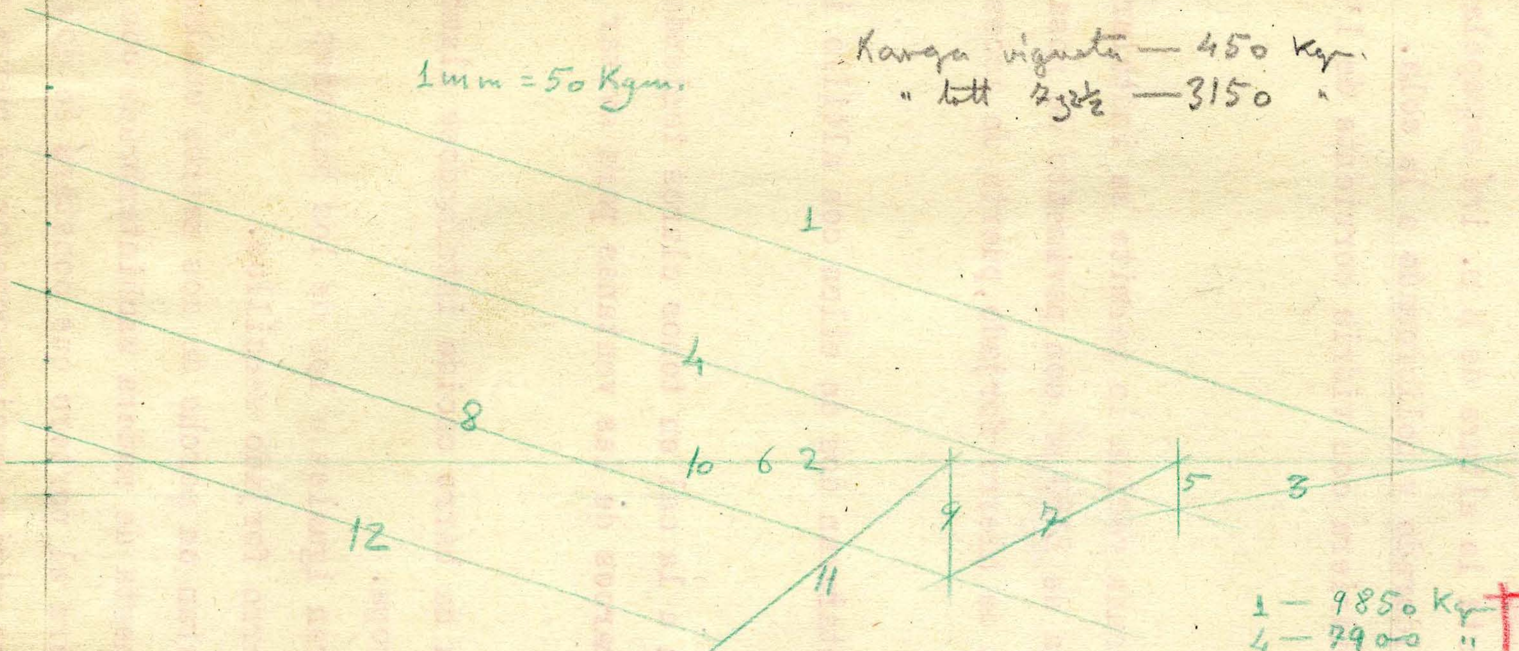
Pie derecho con garras

Carga = 3150 Kg
Seccion = 3'15 cm²

Pandeo distancia entre garras	à 2m	$I_m = 2'5 \times 3'15 \times \overline{2}^2 = 31'50$ cm³	— 2][	n = 12
	à 1'50	$I_m = 2'5 \times 3'15 \times \overline{1'5}^2 = 17'75$ "	— "	n = 10
	a 1m	$I_m = 2'5 \times 3'15 \times 1^2 = 7'87$ "	— "	n = 8

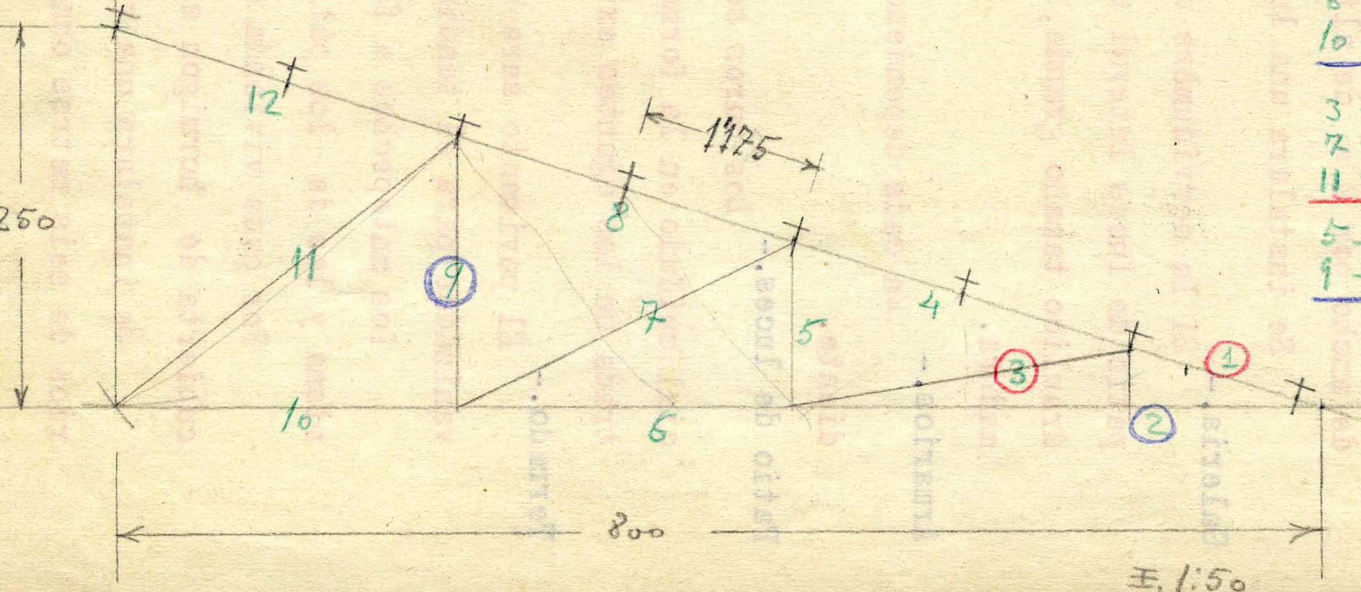
Karga vigueta — 450 Kgr.
" total 7 y ½ — 3150 "

1mm = 50 Kgm.



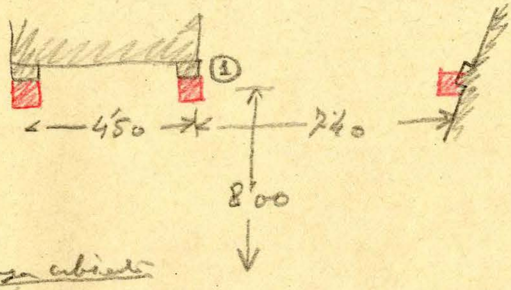
1 — 9850 Kgr.		10000 Kgr.
4 — 7900 "		
8 — 6300 "		
12 — 4650 "		
2 — 9400 Kgr.		10000 Kgr.
6 — 7500 "		
10 — 5000 "		
3 — 1900 Kgr.		2000 Kgr.
7 — 1750 "		
11 — 1950 "		
5 — 300 Kgr.		
9 — 250 "		300 Kgr.

17
8'80



Distancia entre cerchillos = 3'70 m.
Karga m.² cubierta = 200 Kgr.
" m. lineal cerchillo = 200 x 3'70 = 740 Kgr.
" total cerchillo = 8'50 x 740 = 6290 Kgr.

Pilares adossados á cozinhas ①



Carga coberta

$$\left(\frac{7'40+4'50}{2}\right) \times \frac{8'00}{2} \times 200 = 4800 \text{ Kgm.}$$

Peso proprio

$$4'40 \times 0'40 \times 0'55 \times 1600 = 1536 \text{ "}$$

Total = 6336 Kgm.

Cimiento á 2 Kg/cm²

$$\frac{6336}{2} = 3118 \text{ cm}^2$$

tiene 100 × 60 = 6000 cm²

Pilares

0'40 × 0'55 = 2200 cm²

á 10 Kg — 22000 Kg