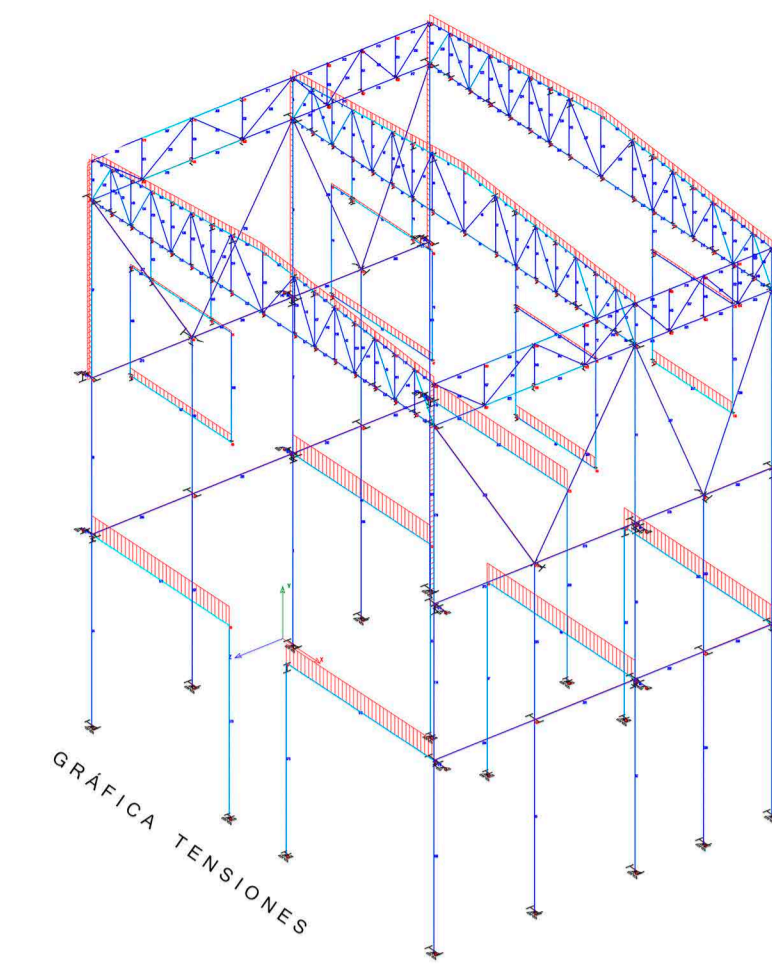
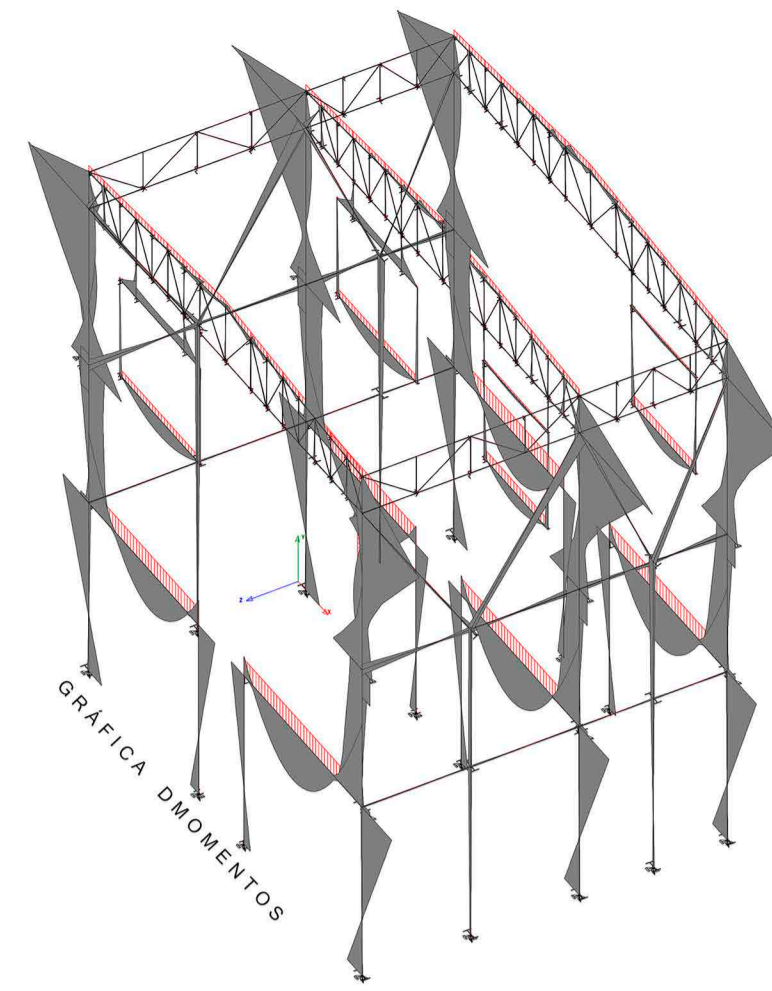
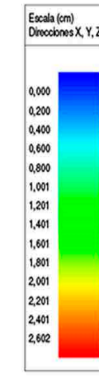
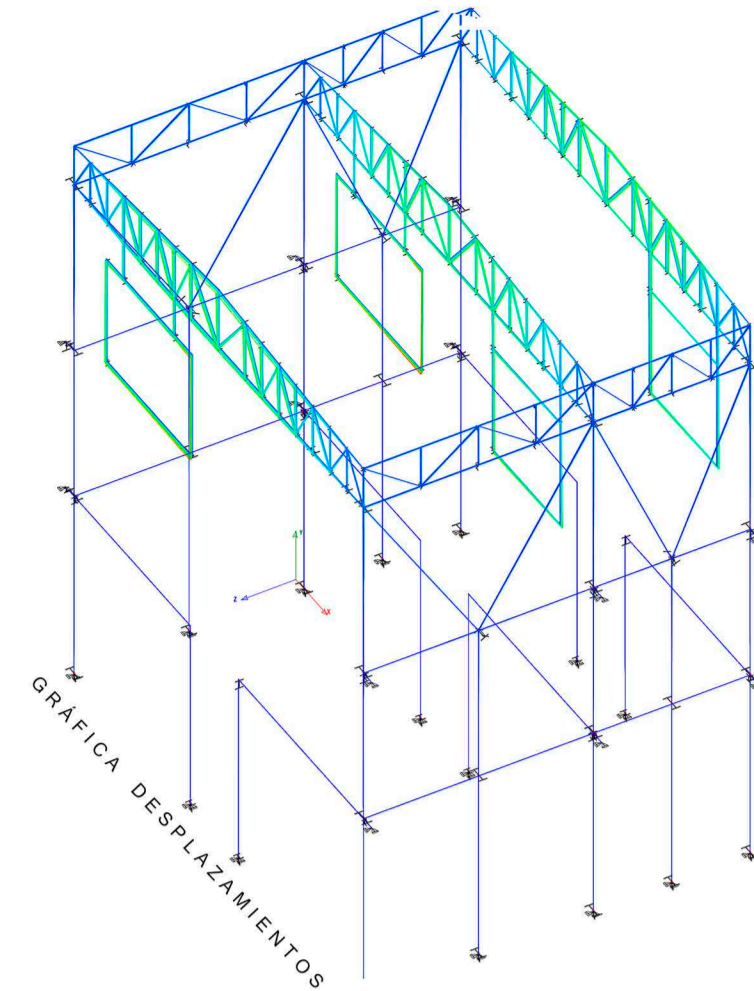
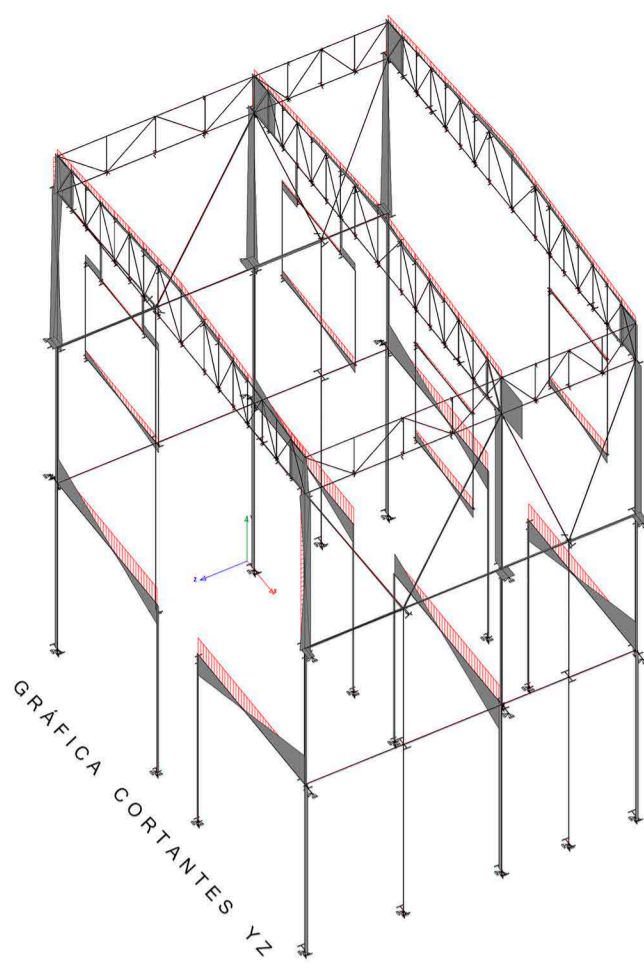
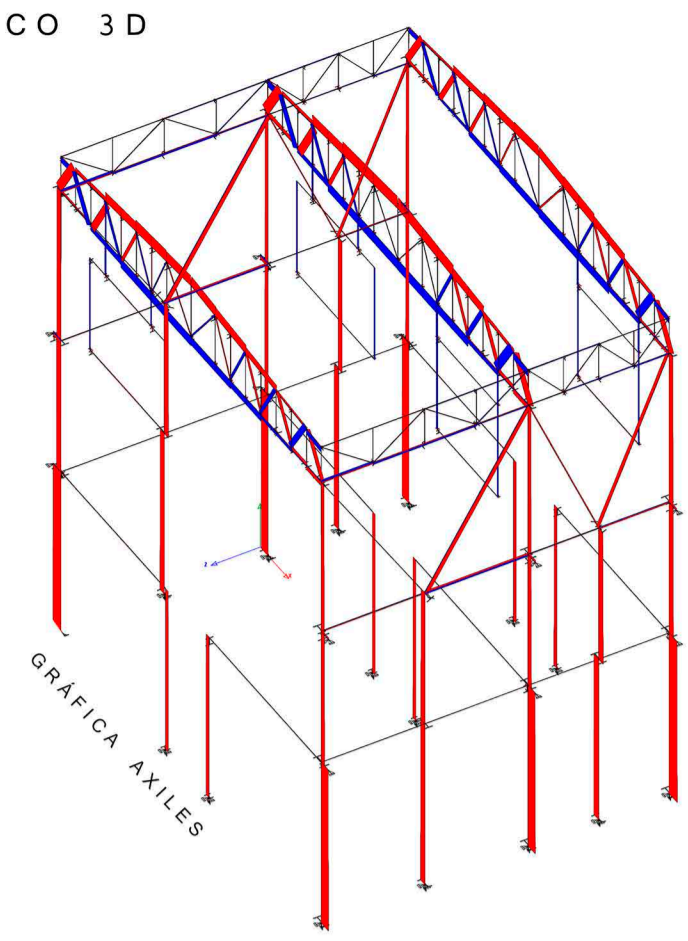


PÓRTICO 3D

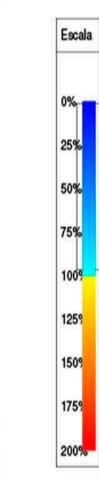
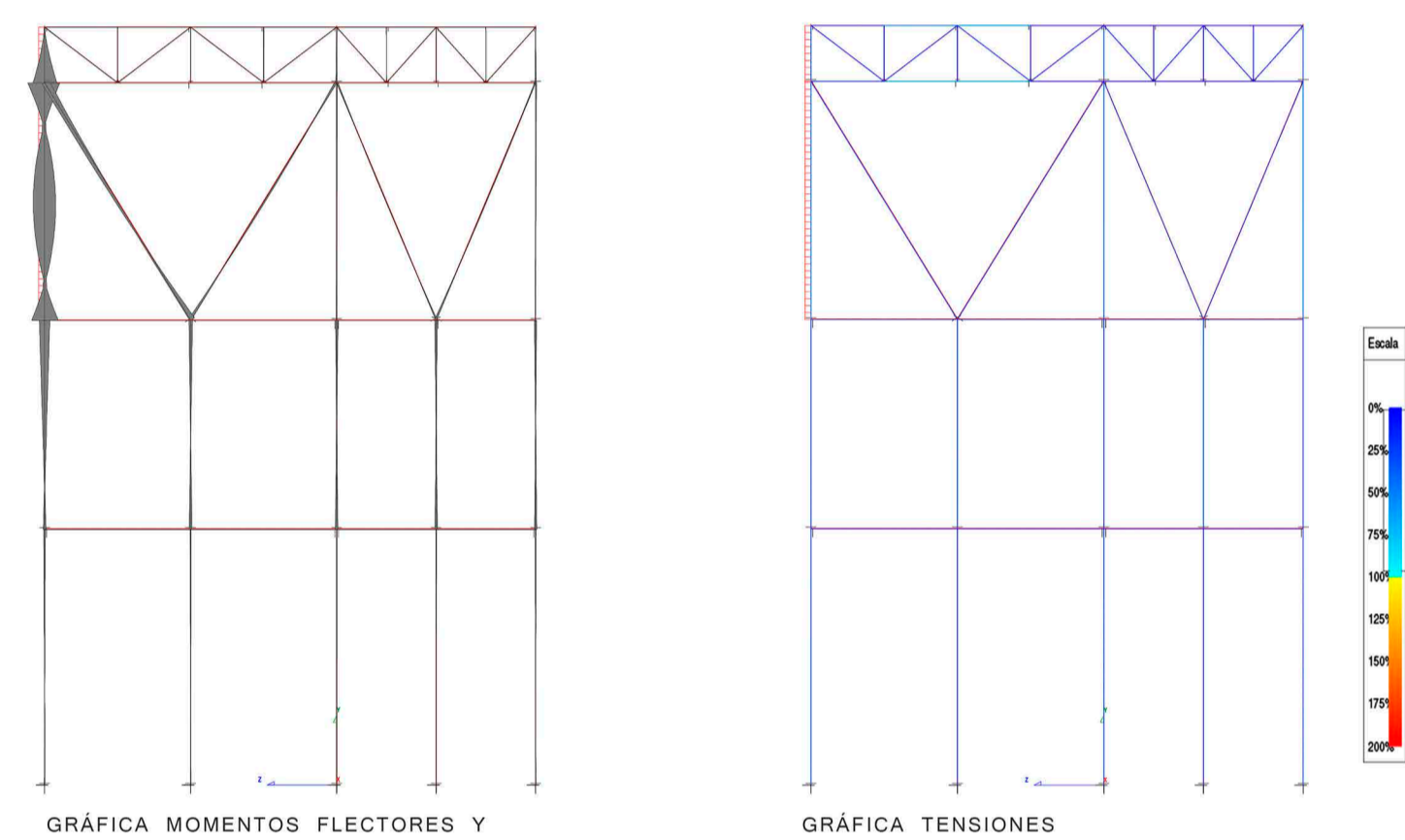
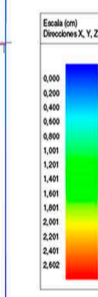
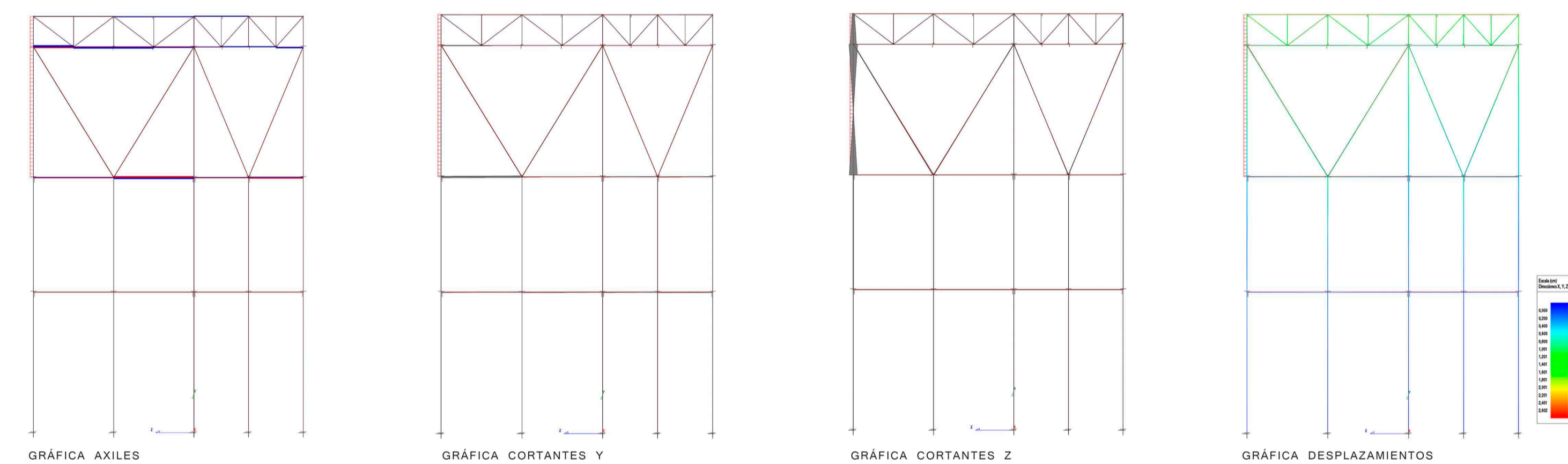


Resumen elementos y solicitaciones

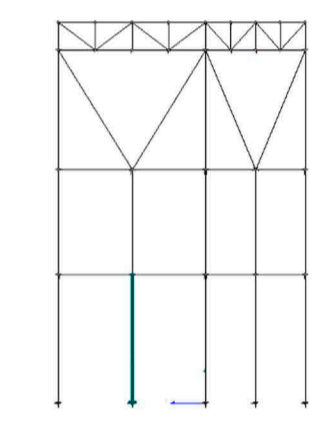
PÓRTICO PRINCIPAL	Perfil	Momento Flector (kN)	Cortante (kN)	Axial (kN)
1.PILAR 03	HEB 500	186	113	412
2.DIAGONAL 12	HEB 240	23	40,1	577
3.PILAR 70	HEB 120	26,3	21,3	-74
4.VIGA 88	HEB 300	339	240	23
5.PILAR 92	HEB 500	172	35	464

PÓRTICO SECUN	Perfil	Momento Flector (kN)	Cortante (kN)	Axial (kN)
1.PILAR 95	HEB 400	12	1,7	277
2.DIAGONAL 268	HEB 400	56	9,2	164

PÓRTICO SECUNDARIO



PILAR 95



PILAR 95	Solicitación
Compresión	277 kN
Cortante	1,7 kN
Momento Flector	12 kNm

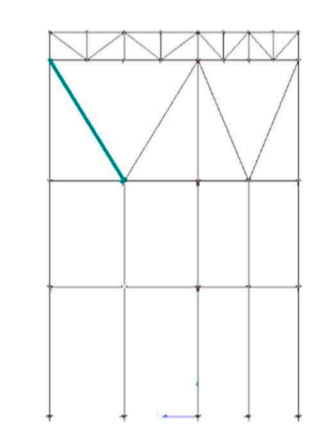
Dimensiones del elemento	
HEB 400	mm
L	7,35 m
la	7,35 m
A	19779 mm ²
I	57680 mm ⁴
Wx	3232 mm ³

Esfuerzo Axial, Compresión
 $N_{Ed} \leq N_{c,Rd}$
 $N_c, Rd = A \cdot f_y / \gamma_{M0} = 19779 \cdot 275 / 1,05 = 5180 \text{ kN} >> 277 \text{ kN}$
 OK

Esfuerzo Cortante
 $V_{Ed} \leq V_{pl,Rd}$
 $V_{pl,Rd} = A_v \cdot (f_y / \sqrt{3}) / \gamma_{M0} = 6999 \cdot (275 / \sqrt{3}) / 1,05 = 1058 \text{ kN} >> 1,7 \text{ kN}$
 OK

Momento Flector
 $M_{Ed} \leq M_{c,Rd}$
 $M_c, Rd = W_{pl} \cdot f_y / \gamma_{M0} = 3232 \cdot 275 / 1,05 = 846 \text{ kNm} >> 12 \text{ kNm}$
 OK

DIAGONAL 268



DIAGONAL 268	Solicitación
Compresión	164 kN
Cortante	9,2 kN
Momento Flector	56 kNm

Dimensiones del elemento	
HEB 400	mm
L	7,35 m
la	7,35 m
A	19779 mm ²
I	57680 mm ⁴
Wx	3232 mm ³

Esfuerzo Axial, Compresión
 $N_{Ed} \leq N_{c,Rd}$
 $N_c, Rd = A \cdot f_y / \gamma_{M0} = 19779 \cdot 275 / 1,05 = 5439225 \text{ N} = 5439 \text{ kN} >> 164 \text{ kN}$
 OK

Esfuerzo Cortante
 $V_{Ed} \leq V_{pl,Rd}$
 $V_{pl,Rd} = A_v \cdot (f_y / \sqrt{3}) / \gamma_{M0} = 6999 \cdot (275 / \sqrt{3}) / 1,05 = 1058 \text{ kN} >> 9,2 \text{ kN}$
 OK

Momento Flector
 $M_{Ed} \leq M_{c,Rd}$
 $M_c, Rd = W_{pl} \cdot f_y / \gamma_{M0} = 3232 \cdot 275 / 1,05 = 846 \text{ kNm} >> 56 \text{ kNm}$
 OK

