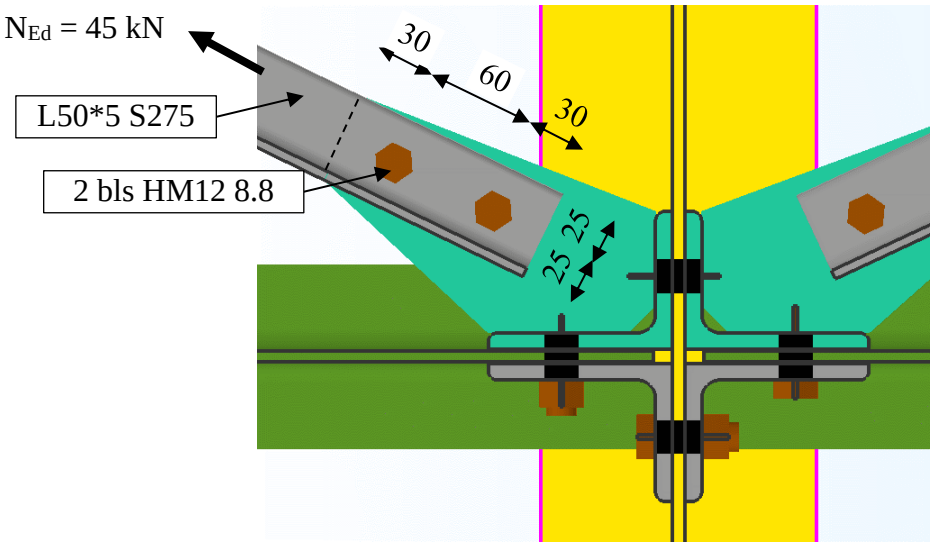
AMCR	E4	Révisions – Traction
		Diagonale de CV corrigé



1. Vérifier les dispositions constructives sur la cornière.

e_1= 30 mm > 1.2*d_0 = 1.2*13 = 16 mm
e_2 = 25 mm > 1.2*d_0 = 16 mm
p_1 = 60 mm > 2.2*d_0 = 29 mm
< min(14t ;200) = min(14*5 ;200) = 70 mm

2. Vérifier la résistance en traction de la cornière.

Critère EC3-1.1-§6.2.3 – Résistance en traction

$$\frac{N_{Ed}}{N_{t,Rd}} \leq 1$$

N_{Ed} = 45.00 kN

$N_{t,Rd}$= min$\left[N_{pl,Rd}; N_{u,Rd}\right]$ = 92.79 kN

$N_{pl,Rd} = \frac{A.f_y}{\gamma_{M0}} = \frac{4.80*10^{-4}*275*10^3}{1}$ = 132.00 kN

$N_{u,Rd} = \frac{\beta_2.A_{net}.f_u}{\gamma_{M2}} = \frac{0.65*4.15*10^{-4}*430*10^3}{1.25}$ = 92.79 kN

β_2 : 2.5*d_0=2.5*13=32.5 < 60 < 5*d_0=5*13=65 → β_2 = 0.4+ $\frac{0.3}{2.5*13}$*(60-2.5*13) = 0.65

A_{net} = 4.80-(1.3*0.5) = 4.15 cm²

$$\frac{N_{Ed}}{N_{t,Rd}} = \frac{45.00}{92.79} = 0.48 < 1 \quad \rightarrow \text{vérifié}$$