



The design resistance of the fillet weld will be sufficient if the following are both satisfied:

$$[\sigma_{\perp}^2 + 3(\tau_{\perp}^2 + \tau_{\parallel}^2)]^{0.5} \leq f_u / (\beta_w \gamma_{M2}) \quad \text{and} \quad \sigma_{\perp} \leq 0.9 f_u / \gamma_{M2}$$

where:

$f_u$  is the nominal ultimate tensile strength of the weaker part joined;

$\beta_w$  is the appropriate correlation factor taken from Table 4.1.

$$\sqrt{2} \sigma_D \leq \frac{f_u}{\beta_w \gamma_{M2}}$$

$$0,786 \sigma_D \leq \frac{f_u}{\gamma_{M2}}$$

1,25

S235 → 0,8

S355 → 0,9

S460 → 1,0

↓  
MPa