Remarks: See §5.2.2, pages 285 till 288

Answer:

15 N/mm

Explanation:

Location of the NC w.r.t. the top of the profile
(units in mm):

$$\text{NC} = \frac{400\times12\times200}{(400\times12)+(400\times12)} = 100 \text{ mm}$$

Cross-sectional properties (unit in mm):

$$I_{zz} = I_{\text{steiner;flange}} + I_{\text{centr;web}} + I_{\text{steiner;web}} = 160\times10^6 \text{ mm}^4$$

$$S_z^{(a)} = 400\times12\times100 = 480\times10^3 \text{ mm}^3$$

Shear force per length in the double corner weld:

$$s_x^a = \frac{(10\times10^3 \text{ N})(480\times10^3 \text{ mm}^3)}{160\times10^6 \text{ mm}^4} = 30 \text{ N/mm}$$

In a single weld: 15 N/mm