Remarks: See § 4.4, pages 168 till 170
See §4.6, pages 184 till 186

Comments:

$\sigma = \dfrac{Mz}{I_{zz}}$ or $\sigma = \dfrac{M}{W}$

Answer:

$\sigma_{max} = \pm 2,4 \text{ N/mm}^2$ (Tension above and compression below)

Explanation:

The maximum bending moment in cross-section:

$M_{max} = (1680 \text{ Nm}) + (720 \text{ Nm}) = 2400 \text{ Nm}$ $(\curvearrowright)$

Properties of the cross-section:

$I = 50 \times 10^6 \text{ mm}^4$ and $W = 10^6 \text{ mm}^3$