

Opmerkingen: Zie §3.2.2, blz. 88 t/m 90

Antwoorden:

a. $I_{\bar{\bar{z}}} = 70 \times 10^6 \text{ mm}^4$

b. $I_{zz} = 40 \times 10^6 \text{ mm}^4$

Toelichting:

$$I_{\bar{\bar{z}}} = I_{zz} + Aa^2$$

b. $I_{zz} = 47,5 \times 10^6 \text{ mm}^4 - (12 \times 10^3 \text{ mm}^2)(25 \text{ mm})^2 = 40 \times 10^6 \text{ mm}^4$

a. $I_{\bar{\bar{z}}} = 40 \times 10^6 \text{ mm}^4 + (12 \times 10^3 \text{ mm}^2)(50 \text{ mm})^2 = 70 \times 10^6 \text{ mm}^4$