

[Remarks:](#) See § 4.4, pages 168 till 170

[Answer:](#)

Stress-diagram b.

[Explanation:](#)

Calculate the location of the normal centre NC.

The distance of the NC from the top of the cross –section is:

$$\frac{(10 \times 30 \times 5 \text{ mm}^3) + (30 \times 10 \times 25 \text{ mm}^3)}{(10 \times 30 \text{ mm}^2) + (30 \times 10 \text{ mm}^2)} = 15 \text{ mm}$$

Since $N=0$, the normal stress at the normal centre NC must be zero.

Therefore stress-diagram b is correct.