

[Remarks:](#) See §6.2.1, pages 415 till 420

[Answer:](#)

$$\tau = 25 \text{ N/mm}^2$$

[Explanation:](#)

$$A = 2\pi R t = 8000 \text{ mm}^2$$

$$I_p = 2\pi R^3 t = AR^2$$

$$\tau = \frac{M_t R}{I_p} = \frac{M_t}{AR} = \frac{30 \times 10^6 \text{ Nmm}}{(8000 \text{ mm}^2)(150 \text{ mm})} = 25 \text{ N/mm}^2$$