

[Remarks:](#) See §3.1.3 pages 77 till 82

[Answer:](#)

$$z = 200 \text{ mm}$$

[Explanation:](#)

$$z = \frac{(500 \times 20 \text{ mm}^2)(250 \text{ mm}) + (200 \times 25 \text{ mm}^2)(500 \text{ mm})}{(600 \times 25 \text{ mm}^2) + (500 \times 20 \text{ mm}^2)} = 200 \text{ mm}$$