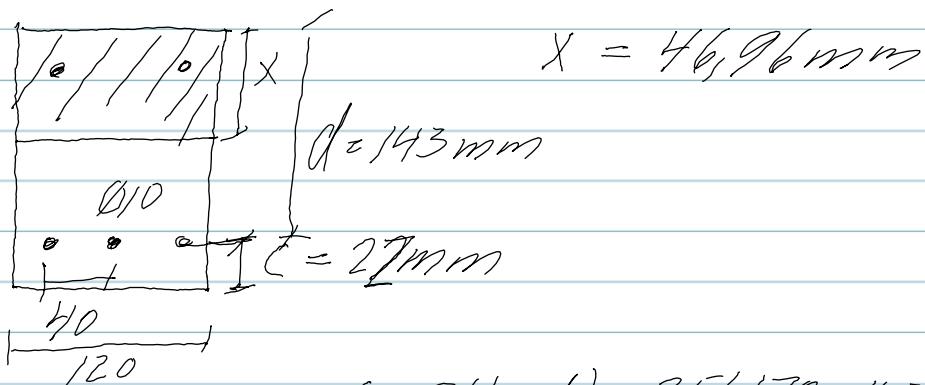


# DTU. Betonkonstruktioner



$$2,5(h-d) = 25(170-143) = 67,5 \text{ mm}$$

$$h_{c,eff} = \min \left\{ \begin{array}{l} (h-x)/3 = (170-46,96)/3 = 41,0 \text{ mm} \\ h/2 = 170/2 = 85,0 \text{ mm} \end{array} \right.$$

$$= 41,0 \text{ mm}$$

$$a = 40 \text{ mm} < 5(c + \bar{d}/2) = 5(22 + 10/2) = 2 \cdot 27 = 135 \text{ mm}$$

$$s_{nmax} = 29 \sqrt[3]{c^2 + 0,17 \cdot \frac{A_{c,eff}}{A_s} d}$$

$$= 29 \sqrt[3]{22^2 + 0,17 \cdot \frac{44 \cdot 120}{3 \pi (10/2)^2} \cdot 10} = 117 \text{ mm}$$