

QR 40,  $\angle 225^\circ$ ; 803-152

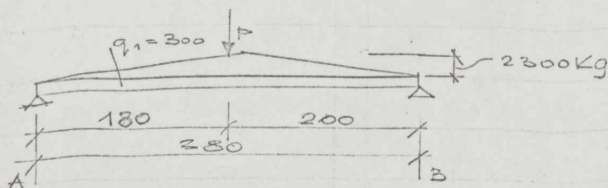
$$M_A = 2100 \times \frac{0,80^2}{2} = 670 \text{ kgm}$$

$$h = 16,5 - (1,5 + 1,0) = 14 \text{ cm}$$

$$K = 0,540 ; w = 0,2 \text{ pract } A = 3,60 \text{ cm}^2$$

$$\text{toegepast } \Phi 10-20 \quad A = 3,95 \text{ cm}^2$$

1° Verdieping balk bij directiekamer



$$P \text{ zie berek. pagina 36 } ; = 3190 \text{ Kg}$$

balk ommanteling

$$0,50 \times 0,40 \times 2400 \times 1,70 = \frac{815 \text{ kg}}{4005 \text{ kg}}$$

$$q_1 ; 0,24 \times 0,52 \times 2400 = 300 \text{ kg/m}^2$$

$$q_2 ; 1220 \times 3,80 \times \frac{1}{2} = 2320 \text{ Kg}$$

$$R_B = 4005 \times \frac{200}{380} + 300 \times 1,90 + \frac{1}{4} \times 2300 \times 3,80 = 5850 \text{ kg}$$

$$M_{AB} = \frac{2300 \times 380^2}{12} + \frac{300 \times 380^2}{10} + \frac{4005 \times 180 \times 200}{380} = 7000 \text{ kgm}$$

Wapening

$$b = 24 \text{ cm} ; h = 57 \text{ cm}$$

$$w = 0,20 \text{ practisch } A = 14,40 \text{ cm}^2$$

toegepast  $4 \Phi 22$

$$T_1 = \frac{7 \times 24 \times 57}{1,5} = 6390 \text{ kg} > 5850 \text{ kg}$$