

Steunpunt B wapening

$$M_B = 42582 \text{ kgw}$$

$$Q_r = 40$$

$$b = 70 \text{ cm}$$

$$K = 225$$

$$w = 60 \text{ cm}$$

$$K = 0,248; \quad w = 0,855 \quad A = 35,90 \text{ cm}^2$$

toegepast  $6 \Phi 28$ 

$$; A = 36,96 \text{ cm}^2$$

Veldwapening A-B

$$M_{AB} = 48900 \text{ kg/m}$$

$$b = 70 \text{ cm}$$

$$w = 60 \text{ cm}$$

$$K = 0,827; \quad w = 1,058 \quad A = 44,20 \text{ cm}^2$$

toegepast  $8 \Phi 28; A = 49,28 \text{ cm}^2$ 

$$T_{BR} = 30983 + 1,24 \times 5480 = 37778 \text{ Kg}$$

$$T_{BL} = -23190 + 5480 \times 8,54 + \frac{48900}{8,54} = 29230 \text{ Kg}$$

$$\delta_{bA} = \frac{1,5 \times 23190}{60 \times 70} = 8,55 \text{ Kg/cm}^2 > 7 \text{ Kg/cm}^2$$

$$T_z = \frac{7 \times 60 \times 70}{1,5} = 21000 \text{ Kg}$$

$$y_A = \frac{23190 - 21000}{5480} = 0,40 \text{ m}$$

Schuine trekkracht T.P.V. A

$$S_A = \frac{1}{2} (8,55 + 7,00) \times 70 \times 40 = 21780 \text{ Kg}$$

opgebogen wapening te A

$$A_0 = \frac{21780}{2200 \cdot \sqrt{2}} = 7,00 \text{ cm}^2$$

 $3 \Phi 18; A = 7,62 \text{ cm}^2$ 