

803-101

Cross.

A	B		C
AB	BA 21%	BC 79%	CB
+35500	-35500		
+ 3725	+ 7450	+27050	+13525
+39225	-27050	+27050	+13525

$$T_A = 5020 \times 9,22 \times \frac{1}{2} + \frac{39225 - 27050}{9,22} = 24390 \text{ Kg}$$

$$T_{B_L} = 5020 \times 9,22 \times \frac{1}{2} + \frac{27050 - 39225}{9,22} = 21970 \text{ Kg}$$

Steunpunt A

$$T_A = 24390 \text{ Kg}$$

$$M_A = 39225 \text{ Kg m}$$

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

$$\mu = 58 - (2,0 + 1,0 + 1,4) = 53,6 \text{ cm}$$

$$k = 0,227 ; \omega = 1,058 ; A = 39,61 \text{ cm}^2$$

$$\text{toegepart } 2\phi 24 + 5\phi 28 A = 39,84 \text{ cm}^2$$

$$k_z = 0,824$$

$$k_A = \frac{24390}{53,6 \times 70 \times 0,824} = 7,89 \text{ Kg/cm}^2 > 7 \text{ Kg/cm}^2$$

$$T_z = 58 \times 70 \times 7 \times 0,824 = 23410 \text{ Kg}$$

$$y_A = \frac{24390 - 23410}{5020} = 0,19 \text{ m}$$

$$A_0 = \frac{(7,89 + 7,00) \times 70 \times 19}{2 \times 2200 \times \sqrt{2}} = 3,19 \text{ cm}^2$$

practische opbouw!