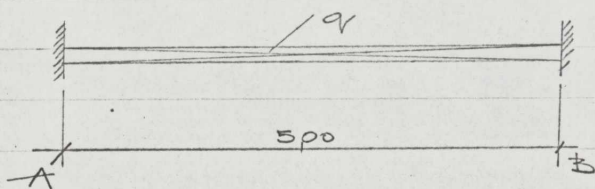


Balle in stramien A (tussen as 2 en 4)Belasting:

$$\begin{aligned} \text{Van Kelderwand} & (3,45 + 0,33) \times 0,20 \times 2400 = 1830 \text{ Kg} \\ \text{Van balken in as. A} & 0,05 \times 0,45 \times 2400 \text{ (rest)} = 50 \text{ Kg} \\ \text{Van keldervloer} & 1000 \times 1,90 = 1900 \text{ Kg} \\ \hline q & = 3780 \text{ Kg} \end{aligned}$$

$$\begin{aligned} T_A = T_B & = 3780 \times 5,00 \times \frac{1}{2} = 9450 \text{ Kg} \\ M_A = M_B & = -3780 \times 5,00^2 \times \frac{1}{12} = -5220 \text{ Kgcm} \\ M_{A-B} & = 3780 \times 5,00^2 \times \frac{1}{14} = 4460 \text{ Kgcm} \end{aligned}$$

Steunpunt A en B

$$M_A = -5220 \text{ Kgcm}$$

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

$$b = 25 \text{ cm} \quad K = 0,415 \quad ; \quad \omega = 0,277 \quad ; \quad K_z = 0,953$$

$$A = 4,15 \text{ cm}^2$$

$$\text{toegepast } 2 \Phi 18 \quad ; \quad A = 5,08 \text{ cm}^2$$

$$M_{AB} = 4460 \text{ Kgcm}$$

$$\text{toegepast } 2 \Phi 18 \quad ; \quad A = 5,08 \text{ cm}^2$$

$$\tilde{\sigma}_A = \frac{9450}{60 \times 25 \times 0,953} = 6,62 \text{ Kg/cm}^2 < 7 \text{ Kg/cm}^2$$