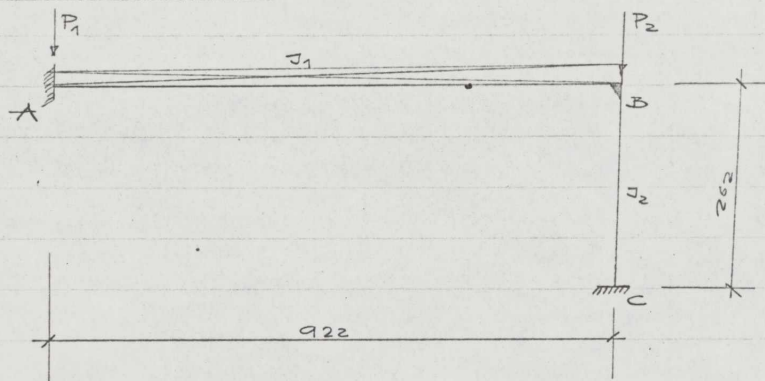


Balken en kolom in stramien 2

803-100

begane grond



Belasting

Van balken eigen gewicht $0,40 \times 0,70 \times 2400 = 670 \text{ kg/m}'$
Van begane vloer e.g. + plaat $870 \times \left(\frac{9,22}{2} + 350\right) = 4350 \text{ kg/m}'$
 $q = 5020 \text{ kg/m}'$

$$P_1 = 77975 \text{ kg}$$

$$P_2 = 68255 \text{ kg}$$

$$J_1 = 70 \times 53^3 \times \frac{1}{12} = 869000 \text{ cm}^4$$

$$J_2 = 40 \times 65^3 \times \frac{1}{12} = 913000 \text{ cm}^4$$

Versteefingscoëfficiënten:

$$K_{BA} : K_{BC} = \frac{4 \times 869000}{9,22} : \frac{4 \times 913000}{2,62} = 21\% : 79\%$$

Primaire momenten

$$M_A = -M_B = \frac{5020 \times 9,22^2}{12} = 35500 \text{ kgm}$$