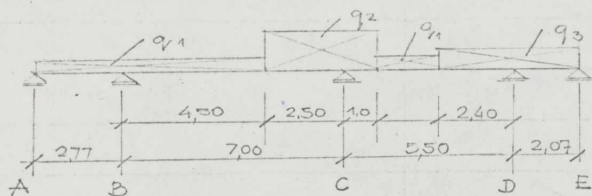


Plaat tussen os A en C/D

1^o verdieping.



Belasting

$$\begin{aligned} \text{e.g. vloer} & 0,18 \times 2400 = 435 \text{ kg/m}^2 \\ \text{afw} & = 135 \text{ ---} \\ \text{mb} & = 300 \text{ kg/m}^2 \\ \hline q_1 & = 870 \text{ kg/m}^2 \end{aligned}$$

$$\begin{aligned} \text{e.g. vloer} & = 435 \text{ kg/m}^2 \\ \text{afw} & = 65 \text{ kg/m}^2 \\ \text{mb} & = 1500 \text{ kg/m}^2 \\ \hline q_2 & = 2000 \text{ kg/m}^2 \end{aligned}$$

$$\begin{aligned} \text{e.g. vloer} & = 435 \text{ kg/m}^2 \\ \text{Mebelwerk} & = 500 \text{ kg/m}^2 \\ \text{afw} & = 135 \text{ kg/m}^2 \\ \text{mb} & = 150 \text{ kg/m}^2 \\ \hline q_3 & = 1220 \text{ kg/m}^2 \end{aligned}$$

Primaire momenten

$$\begin{aligned} M_{BAq} & = -870 \times 2,77^2 \times \frac{1}{8} = -837 \text{ Kgm} \\ M_{BAg} & = -570 \times 2,77^2 \times \frac{1}{8} = -547 \text{ Kgm} \\ M_{BCq} & = +870 \times 7,00^2 \times \frac{1}{12} + \frac{1230 \times 2,50^3}{12 \times 7,0^2} (4 \times 7,0 - 3 \times 2,50) = 4225 \\ M_{BCg} & = +570 \times 7,00^2 \times \frac{1}{12} = 2330 \text{ Kgm} \\ M_{CDq} & = -870 \times 7,00^2 \times \frac{1}{12} - \frac{1230 \times 2,50^2}{12 \times 7,0^2} [2(2 \times 7,0 - 2,5)^2 - \\ & \quad - (2 \times 7,0^2 - 2,5^2)] = -5797 \text{ Kgm} \end{aligned}$$