

Begane grond

Plaat tussen stramien 1 en 2

belasting:

$$\text{Van eigen gewicht; } 0,18 \times 2400 = 435 \text{ kg/m}^2$$

$$\text{Van afw; } = 135 \text{ kg/m}^2$$

$$\text{Van n.b. } = 300 \text{ "}$$

$$q_v = 870 \text{ kg/m}^2$$

$$l = 2,64 \text{ m ;}$$

$$M_{\text{veld}} = 870 \times 2,64^2 \times \frac{1}{10} = 605 \text{ Kgm}$$

$$h = 16,5 \text{ cm}$$

Beton K 225 ; Staal Qr 40

$$\text{practisch } - \omega = 0,2 ; A = 3,60 \text{ cm}^2 ;$$

$$\text{toegepast } \phi 10-20 ; A = 3,93 \text{ cm}^2$$

Plaat tussen stramien 2 en 4

$$\text{Kruisvloer met } l_y = 10,35 \text{ m ; } q_v = 870 \text{ kg/m}^2$$

$$l_x = 6,35 \text{ m}$$

$$l_y/l_x = 1,63$$

tabel VIII geval VI B

$$h_x = 16,5 \text{ cm}$$

$$h_y = 15,5 \text{ cm}$$

$$(M_{v_x}) = -(M_{i_x}) = 0,001 \times 870 \times 6,35^2 \times 60,3 = 2118 \text{ Kgm}$$

$$M_{v_y} = 0,001 \times 870 \times 6,35^2 \times 35,7 = 1250 \text{ Kgm}$$

$$-(M_{i_y}) = 0,001 \times 870 \times 6,35^2 \times 35,7 = 1250 \text{ Kgm}$$