

KeldervloerPlaat tussen as 2 en 4

Kruisvloer met $l_y = 10,30 + 0,05 = 10,35 \text{ m}$

$l_x = 6,30 + 0,05 = 6,35 \text{ m}$

$l_y; l_x = 10,35; 6,35 = 1,63$; $q_f = 1000 \text{ kg/m}^2$

tabel VIII gewel IV B

$M_{vx} = 17,00 \text{ cm}$;

$M_{vy} = 16,00 \text{ cm}$;

$M_{vx} = -(M_{ix}) = 0,001 \times 1000 \times 6,35^2 \times 62 = 2500 \text{ kgm}$

$M_{vy} = 0,001 \times 1000 \times 6,35^2 \times 12,7 = 513 \text{ kgm}$

$k = 225$;

$Q_v = 40$;

$\gamma = 1,72$;

$K_{vx} = 0,340$; $\omega = 0,400$; $A_{vx} = 6,80 \text{ cm}^2$

toegepast $\Phi 12-16 \text{ cm}$; $A = 7,07 \text{ cm}^2$

$\omega_{vy} (\text{pract}) = 0,20$; $A_{vy} = 3,50 \text{ cm}^2$

$\Phi 10-25 \text{ cm}$

Plaat tussen as 1 en 2

$l = 2,44 \text{ m}$

$q_f = 1000 \text{ kg/m}^2$

$M_{vield} = 1000 \times 2,44^2 \times \frac{1}{10} = 595 \text{ kgm}$

$h = 17,00 \text{ cm}$; $\gamma = 1,72$

$\omega = 0,2$; $A = 4,00 \text{ cm}^2$

toegepast $\Phi 10-19 \text{ cm}$