$M_{sd.x} := q_d \cdot l_{ox}^2 \cdot \phi_{1x}$ $M_{sd.x} = 18.155\,kN\cdot m$ $M_{sd.px} := \frac{-\chi_1}{12} \cdot q_d \cdot l_{ox}^2$ $M_{sd.px} = -20.425\,kN\cdot m$

$M_{sd.y} := q_d \cdot l_{oy}^2 \cdot \phi_{1y}$ $M_{sd.y} = 15.892\,kN\cdot m$ $M_{sd.py} := -\frac{1-\chi_1}{12} \cdot q_d \cdot l_{ox}^2$ $M_{sd.py} = -13.96\,kN\cdot m$

$s_{bcx} := \frac{M_{sd.x}}{\alpha \cdot b \cdot d^2 \cdot f_{cd}}$ $s_{bcx} = 0.05$ $\xi := \frac{1-\sqrt{1-2\cdot s_{bcx}}}{0.8}$ $\xi = 0.064$ $x := \xi \cdot d$ $x = 1.026\,cm$

$A_{s1x} := \frac{0.8 \cdot x \cdot b \cdot \alpha \cdot f_{cd}}{f_{yd}}$ $A_{s1x} = 2.7728\,cm^2$ - przyjęto ϕ 12 co 12 cm - As.obl=9,42cm2

$s_{bcy} := \frac{M_{sd.y}}{\alpha \cdot b \cdot d_y^2 \cdot f_{cd}}$ $s_{bcy} = 0.051$ $\xi := \frac{1-\sqrt{1-2\cdot s_{bcy}}}{0.8}$ $\xi = 0.066$ $x := \xi \cdot d$ $x = 1.05\,cm$

$A_{s1y} := \frac{0.8 \cdot x \cdot b \cdot \alpha \cdot f_{cd}}{f_{yd}}$ $A_{s1y} = 2.8384\,cm^2$ - przyjęto ϕ 12 co 12 cm - As.obl=9,42cm2

-płyta P_05.1

$q_d := 12.7 \cdot \frac{kN}{m}$ $h := 0.18 \cdot m$ $d := h - 0.02m$ $d = 16\,cm$

$l_{ox} := 5.40 \cdot m$ $l_{oy} := 6.13 \cdot m$ $b := 1 \cdot m$ $d_y := d - 1.20 \cdot cm$ $d_y = 14.8\,cm$

$\frac{l_{oy}}{l_{ox}} = 1.135$ $\phi_{1x} := 0.0476$ $\phi_{1y} := 0.0300$ $\chi_1 := 0.636$ $\alpha := 0.85$

$M_{sd.x} := q_d \cdot l_{ox}^2 \cdot \phi_{1x}$ $M_{sd.x} = 17.628\,kN\cdot m$ $M_{sd.px} := \frac{-\chi_1}{12} \cdot q_d \cdot l_{ox}^2$ $M_{sd.px} = -19.628\,kN\cdot m$

$M_{sd.y} := q_d \cdot l_{oy}^2 \cdot \phi_{1y}$ $M_{sd.y} = 14.317\,kN\cdot m$ $M_{sd.py} := -\frac{1-\chi_1}{12} \cdot q_d \cdot l_{ox}^2$ $M_{sd.py} = -11.233\,kN\cdot m$

$s_{bcx} := \frac{M_{sd.x}}{\alpha \cdot b \cdot d^2 \cdot f_{cd}}$ $s_{bcx} = 0.049$ $\xi := \frac{1-\sqrt{1-2\cdot s_{bcx}}}{0.8}$ $\xi = 0.062$ $x := \xi \cdot d$ $x = 0.995\,cm$

$A_{s1x} := \frac{0.8 \cdot x \cdot b \cdot \alpha \cdot f_{cd}}{f_{yd}}$ $A_{s1x} = 2.6901\,cm^2$ - przyjęto ϕ 12 co 12 cm - As.obl=9,42cm2

$s_{bcy} := \frac{M_{sd.y}}{\alpha \cdot b \cdot d_y^2 \cdot f_{cd}}$ $s_{bcy} = 0.046$ $\xi := \frac{1-\sqrt{1-2\cdot s_{bcy}}}{0.8}$ $\xi = 0.059$ $x := \xi \cdot d$ $x = 0.943\,cm$

$A_{s1y} := \frac{0.8 \cdot x \cdot b \cdot \alpha \cdot f_{cd}}{f_{yd}}$ $A_{s1y} = 2.5501\,cm^2$ - przyjęto ϕ 12 co 12 cm - As.obl=9,42cm2

-płyta P_06.1

$q_d := 12.7 \cdot \frac{kN}{m}$ $h := 0.18 \cdot m$ $d := h - 0.02m$ $d = 16\,cm$

$l_{ox} := 5.70 \cdot m$ $l_{oy} := 6.13 \cdot m$ $b := 1 \cdot m$ $d_y := d - 1.20 \cdot cm$ $d_y = 14.8\,cm$