

staaf 3 = kolom

$$N_{c;s;d} = 84.79 \text{ kN} \quad \varnothing 101.6 \times 5.0$$

$$N_{c;u;d} = 1517 \times 235 = 356.5 \text{ kN}$$

$$\lambda_y = \frac{3000}{34.20} = 87.72$$

$$\lambda_{y;rel} = \frac{87.72}{93.9} = 0.93$$

$$W_{buc} = 0.75$$

$$\frac{N_{c;s;d}}{W_{buc} \times N_{c;u;d}} = \frac{84.79}{0.75 \times 356.5} = 0.32 \leq 1.0 \text{ akkoord}$$

Berekening ligger fundering onder kolom:

$$L_{syst} = \pm 2 \text{ m} \quad F_d = 84.8 \text{ kN} \quad F_{rep} = 67.6$$

$$F/L = 84.8 \text{ kN} / 2.0 \text{ m} = 42.4 \text{ kN/m}$$

$$W_{ben.} = \frac{1}{2} \times 42.4 \times 1.0^2 / 235 = 90.2 \cdot 10^3 \text{ mm}^3$$

$$I_{ben.} = \frac{67.6 \times 1000^4}{8 \times 2.1 \times 10^5 \times 2} = 2011.9 \times 10^4 \text{ mm}^4$$

Toepassen HE 180A