

$$N_{ez} = \frac{1}{r_0^2} \left[\frac{\pi^2 E C_w}{(k_z L_z)^2} + G I_t \right] = \mathbf{1071,17 \text{ kN}}$$

$$N_e = \min(N_{ex}; N_{ey}; N_{ez}) = \mathbf{461,36 \text{ kN}}$$

$$\lambda_0 = \sqrt{\frac{Q A_g f_y}{N_e}} = \mathbf{1,406}$$

$$\lambda_0 \leq 1,5 \quad \chi = 0,658 \lambda_0^2$$

$$\lambda_0 > 1,5 \quad \chi = \frac{0,877}{\lambda_0^2}$$

$$\chi = \mathbf{0,437}$$

$$N_{c,Rd} = \frac{\chi Q A_g f_y}{\gamma_{a1}} = \mathbf{363 \text{ kN}}$$