BERÄKNINGAR

EGT BJL: 1,0 kH/m²

NL: 0,5 kH/m² ψ=1,0 1,5 kH/m² ψ=0,33

q_{brott} =(1,0 + 1,3 x 2) x 4,5 x 1,2 = 23,3 kH/m

=(1,0 + 0,5 + 1,5 x 0,33) x 4,5 x 1,2 = 13 kH/m

M = 36,7 MPa

f_{st} = 229 mpA $w \geq 160 \times 10^{-6}$ m² ⟶ HEA160

f_{md} = 16,5 mpA $w \geq 2224 \times 10^{-6}$ m² L 90x405

Sätter y_{max} = 8,5 mm L/400

$$0{,}0085 = \frac{5 \times 13 \times 10^3 \times 3{,}55}{384 \times 210 \times 10^9 \times I} \longrightarrow I \geq 15 \times 10^{-6}\ m^4 \longrightarrow \text{HEA 160 } \underline{\text{OK}}$$

$$0{,}0085 = \frac{5 \times 13 \times 10^3 \times 3{,}55}{384 \times 8450 \times 10^6 \times I} \longrightarrow I \geq 374 \times 10^{-6}\ m^4 \longrightarrow \text{L 90x405 } \underline{\text{OK}}$$

Rekomenderar HEA 180 alt. L 115x405