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Model

System

System length L = 4.50 m
 Cross-section width b = 0.20 m
 Cross-section height h = 0.30 m

Loads

Permanent actions: $1.35 \cdot b \cdot h \cdot 25 = 2.02 \text{ kN/m}$
 Variable actions: $1.50 \cdot 2.50 = 3.75 \text{ kN/m}$
 $q_d = 5.77 \text{ kN/m}$

Calculation

$M = q_d \cdot \frac{L^2}{8} = 14.61 \text{ kNm}$
 $Q = q_d \cdot \frac{L}{2} = 12.98 \text{ kN}$

VCmaster Classic-Edition
 Text format Version 19.04

System information

Software for documentation and calculation
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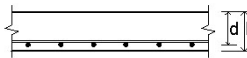
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Template Explorer

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Slab reinforcement



Data given

Overall depth h = 200.0 mm
 Effective depth d = 165.0 mm
 1-m-wide slab strip b = 1000.0 mm
 Required Moment M = 30.0 kNm/m

Material properties

Concrete grade C = SEL('EC2_BSConcrete'; Grade) = C20/25
 $f_{ctk} = \text{TAB}('EC2_BSConcrete'; f_{ctk}; \text{Grade}=C) = 20.0 \text{ N/mm}^2$
 $f_{yk} = 500.0 \text{ N/mm}^2$

Bending reinforcement calculation

$K = \text{MIN}(\frac{M}{b \cdot d^2 \cdot f_{ctk}}; 0.167) = 0.055$
 $f_{sreq} = \text{MIN}(0.5 \cdot (1 + \sqrt{1 - 3.63 \cdot K}); 0.95) = 0.949$
 $z = \frac{d \cdot f_{sreq}}{1.1} = 156.6 \text{ mm}$
 $A_s = \frac{M}{0.87 \cdot z \cdot f_{yk}} = 440.4 \text{ mm}^2/\text{m}$
 $\min A_s = b \cdot h \cdot 0.016/100 \cdot f_{ctk}^2 = 235.8 \text{ mm}^2/\text{m}$
 $A_s = \text{MAX}(A_s; \min A_s) = 440.4 \text{ mm}^2/\text{m}$



Reinforcing

Main reinforcement

Diameter $d_s = \text{SEL}('EC2_BSIAs'; d_s) = 8 \text{ mm}$
 $\text{Reinf} = \text{SEL}('EC2_BSIAsSp'; R; d_s=d_s; a_s > A_s) = \text{H8 at 100}$
 $A_{s,prov} = \text{TAB}('EC2_BSIAsSp'; a_s; R=\text{Reinf}) = 503.0 \text{ mm}^2/\text{m}$
 $\text{Spacing } e = \text{TAB}('EC2_BSIAsSp'; e; R=\text{Reinf}) = 100.0 \text{ mm}$
 $\text{Max spacing } e_{max} = 3 \cdot d_s = 495.0 \text{ mm}$
 $e / e_{max} = 0.20 \leq 1$

Distribution reinforcement

Diameter $d_s = \text{SEL}('EC2_BSIAs'; d_s) = 8 \text{ mm}$
 $\text{Reinf} = \text{SEL}('EC2_BSIAsSp'; R; d_s=d_s; a_s > \min A_s) = \text{H8 at 200}$
 $A_{s,prov} = \text{TAB}('EC2_BSIAsSp'; a_s; R=\text{Reinf}) = 251.0 \text{ mm}^2/\text{m}$
 $\text{Spacing } e = \text{TAB}('EC2_BSIAsSp'; e; R=\text{Reinf}) = 200.0 \text{ mm}$
 $\text{Max spacing } e_{max} = 3.5 \cdot d_s = 577.5 \text{ mm}$
 $e / e_{max} = 0.35 \leq 1$

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