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[Graitec Omd 17.1 Pour Windows 7 64 Bits](#)

concrete.fho - Advance Design - Version 2017 - [NOT FOR RESALE version - View Modules]

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Type Gravity Design Assumptions Stock Reinforcement Loads and Combinations Foundation Calculations Calculate Reinforcement Results Generate Report - Drawing Settings settings - Options

Model Drawing Solicitations Stresses Reinforcement Deflection Fire Resistance Supports Verifications Supports Reactions

Model Analysis Design

Model

- 1 - Fast floor
 - 1 - Linear
 - 1 - Rigid point support
 - 2 - Rigid linear support
 - 2 - Linear
 - 2 - Rigid point support
 - 3 - Linear
 - 3 - Rigid linear support
 - 4 - Rigid linear support
 - 5 - Rigid linear support
 - 6 - Linear
 - 7 - Linear
 - 8 - Linear

Design efforts	Top x	Top value	Top comb.	Bottom x	Bottom value	Bottom
Longitudinal MEd	0.00 mm	-0.01 MN.m	102	528.00 mm	0.00 MN.m	102
Longitudinal NEd	0.00 mm	-965.18 daN	102	528.00 mm	0.00 daN	102
Transversal VEd	0.00 mm	1372.60 daN	102	2352.00 mm	-55.66 daN	102

Reinforcement	Top x	Top value	Top comb.	Bottom x	Bottom value	Bottom
Longitudinal theoretical	0.00 mm	2.49 cm ²	102	528.00 mm	2.49 cm ²	102
Longitudinal real	0.00 mm	1.95 cm ²	--	528.00 mm	2.56 cm ²	--
Transversal theoretical	0.00 mm	2.80 cm ²	102	2352.00 mm	2.80 cm ²	102
Transversal real	0.00 mm	6.38 cm ²	--	2352.00 mm	5.69 cm ²	--

Calculation results | Errors and warnings

ReportViewer

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Project	Revision	A
Address		
Document	Beam Report	
Designed by	Date	07/27/2016
Verified by	Date	07/27/2016

Combination ULS 102 : -1.35x(1 G)

Design bending moment $M_{Ed} = 0.01 \text{ MN.m}$

Reduced moment value $\mu = \frac{|M_{Ed}|}{b \cdot d^2 \cdot f_{td}} = \frac{0.01 \text{ MN.m}}{350.0 \text{ mm} \times (534.0 \text{ mm})^2 \times 16666666.67 \text{ Pa}} = 0.01$

Reduced moment limit $\mu_{lim} = 0.37$

Compressed reinforcement is not required $\mu \leq \mu_{lim} : 0.01 \leq 0.37$

Neutral axis $x_s = \frac{1}{\lambda} \cdot (1 - \sqrt{1 - 2\mu_{red}}) = \frac{1}{0.80} \times (1 - \sqrt{1 - 2 \times 0.01}) \approx 0.01$

Inner lever arm $x_s = d \cdot (1 - 0.5\lambda \cdot x_s) = 534.0 \text{ mm} \times (1 - 0.5 \times 0.80 \times 0.01) = 532.4 \text{ mm}$

Steel stress in tension $\sigma_s = 434782608.70 \text{ Pa}$

Tension reinforcement area $A_{s1} = \frac{|M_{Ed}|}{\sigma_s \cdot x_s} = \frac{0.01 \text{ MN.m}}{532.4 \text{ mm} \times 434782608.70 \text{ Pa}} = 0.43 \text{ cm}^2$

The minimal and maximal percentages of longitudinal reinforcement in the beam are defined by the article 9.2.1.1 from EN1992-1-1:

Minimal percentage (9.1N)

$$A_{s,min} = \text{Max} \left(\frac{0.2 \cdot f_{ctm}}{f_{yk}} \cdot b_w \cdot d, 0.0013 b_w \cdot d \right)$$

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