Dimensioning template

Enquiry form for preliminary design of wood-concrete composite (WCC)

Construction project	
Item no.	
Completed by	
Date	

Basis for calculation:
TS 19103:2021, ÖNORM B 1995-1-1, ÖNORM B 1992-1-1
Calculation method: γ - method

General		
Type: ☐ WCC-flat slab ☐ WCC-ribbed slab ☐ WCC-dowel-beam ceiling	Usage class: ☐ 1 ☐ 2 for virtually constant climatic conditions: - expected equilibrium moisture content m_{use} corresponds to the moisture content at installation - maximum fluctuation in equilibrium moisture content Δmc = 6 % - maximum fluctuations in air temperature ΔT = 20 K	
Span (single-span beam): m	Ceiling width: m	Desired WCC-construction height: mm

Concrete construction	
Take the cracked depth of the concrete into account in the stiffness calculation	☐ Yes ☐ No

Loads		
Structural load (including partition wall surcharge):	$g_{1,k}$ kN/m²	
Live load:	q_k kN/m²	Live load category: ☐ A ☐ C

Cross-section – concrete		
Height: mm	Material ☐ C25/30 ☐ C30/37 ☐ C35/45 ☐ C40/50	Shrinkage according to EN 1992-1-1 – Annex B ‰
Width: mm		Creep coefficient according to EN 1992-1-1 – Annex B
	Type of cement ☐ S ☐ N ☐ R	Reinforcement * relevant for ribbed slabs ☐ AQ50 ☐ AQ60

Cross-section – Wood		
WCC-flat slab	WCC-ribbed slab	WCC-dowel-beam ceiling
hCLT: mm	b: mm	bDB: mm
Construction: mm	h: mm	hDB (rDB): mm
Manufacturer:	Material:	Material:

Please ensure you complete this form in full.
Otherwise, we will be unable to carry out the assessment!

TAKE THE BEST

Leitbetrieb Österreich Leitbetrieb Deutschland

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Connecting		
Screw: ☐ preliminary measurement ☐ Hobet 8x155 ☐ Hobet 8x205	Screw-in angle: ☐ 45° ☐ 90°	non-load-bearing intermediate layer ☐ Yes ☐ No
Screw spacing $s_{max} < 4 * s_{min}$	s_{min}: mm	
	s_{max}: mm	
Number of rows		

Burning		
wear and tear: ☐ none ☐ Fire from below	Burning time: ☐ none ☐ R30 ☐ R60 ☐ R90	Adhesive: ☐ heat-resistant ☐ not heat-resistant

Limit state of serviceability		
Deflection limits t = 0:	$w_{inst,grenz}$	
	$w_{fin,grenz}$	
Deflection limits t = oo:	Deflection factors t = oo: take into account short-term load components	☐ Yes ☐ No
Vibrations	Requirements:	☐ DK I ☐ DK II ☐ no requirements
	Lehrsche damping coefficient:	%
	Take the rigidity of the screed into account:	☐ Yes ☐ No
	d:	cm
	E:	N/mm²
	Storage: ☐ 2-sided ☐ 4-sided	
	Point load position: (for 2-sided mounting)	☐ Single load in the centre ☐ Single load at the free edge

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