

Designation: ddrtxa01b-00 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Floor towards attic (uninhabitable) - ddrtxa01b-00

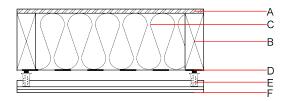
floor towards attic (uninhabitable), timber frame construction, suspended, dry, other surface

Performance rating

Fire protection performance REI 60 maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² (without floor construction) Classified by HFA

Thermal performance	U Diffusion	0.18 W/(m ² K) suitable		
Calculated by HFA				
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	63(-4;-11) dB 55(0)		
$[C_{150-2500}] = [6] dB$ Assessed by HFA				
Mass per unit area	m	54.00 kg/m ²		

Calculation based on gypsum plaster board type DF



Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal pe	Thermal performance				
			λ	μ min – max	ρ	С	EN	
Α	18.0	OSB	0.130	200	600	1.700	D	
В	240.0	spruce wood floor joists (80/*); e=625	0.120	50	450	1.600	D	
С	240.0	mineral wool [038; ≥30]	0.038	1	30	1.030		
D		vapour barrier sd≥ 15m			1000			
E	60.0	acoustic direct hanger decoupled with CD-profile (a=400)						
F	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
F	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2	

Sustainability rating (per m²) Database ecoinvent Ol3_{Kon} 41.1 Calculated by HFA



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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.172	0.077	3,17E-6	0.028	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	102.878	442.034	544.912	579.786	18.553	598.339