

Designation: ddrtxn04b-02 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

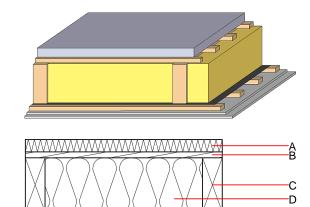
Floor towards attic (uninhabitable) - ddrtxn04b-02

floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

Performance rating

Fire protection performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.17 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 44(-1;-5) dB $L_{n,w}$ (C_l) Assessed by TGM

Mass per unit area 78.00 kg/m^2 Calculation based on gypsum plaster board type DF



Note: e=625

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

	Thickness	Building material	Thermal performance				Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	50.0	Magnesite-bound lightweight wood wool board	0.120	2 - 5	700	1.400	
В	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
С	240.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
D	240.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
E		vapour barrier sd≥ 2m			1000		
F	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
G	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
G	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent									
OI3 _{Kon}	25.6								
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		0.112	0.049	2,42E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M1]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	84.356	468.307	552.664	411.775	4.459	416.234