

Designation: ddrtxn05b-04
Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

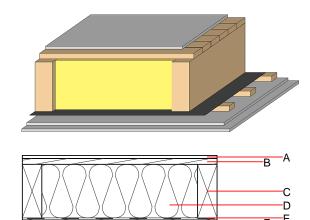
Floor towards attic (uninhabitable) - ddrtxn05b-04

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

Performance rating

Calculation based on GF

Fire protection 60 performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.20 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 47(-3;-8) dB $L_{n,w}$ (C_{l}) Assessed by TGM Mass per unit area 65.50 kg/m^2



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	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
Α	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	
В	24.0	planking spruce wood	0.120	50	450	1.600	D	
С	220.0	spruce wood floor joists (80/*); e=*	0.120	50	450	1.600	D	
D	220.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1	
E		vapour barrier sd≥ 6m			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)

Calculated by HFA

Database ecoinvent
Ol3_{Kon} 27.3

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes.



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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		0.138	0.045	1,80E-6	0.054	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(DI)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
(Phases)	[נואו]	[IAD]	[ivi5]	[]	[5]	[]