

Designation: ddrtxn03a-05 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

Floor towards attic (uninhabitable) - ddrtxn03a-05

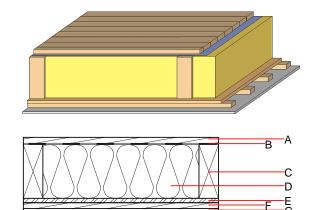
floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

Performance rating

Mass per unit area

REI 30 Fire protection 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}) 42(-3;-7) dB $L_{n,w}$ (C_l)

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)

 61.50 kg/m^2

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	24.0	planking spruce wood	0.120	50	450	1.600	D
В		wind barrier			1000		
С	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
D	220.0	cellulose fibre [040; E]	0.040	1 - 2	55	2.000	E
Е	18.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
F	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
G	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
G	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

 013_{Kon} 13.4

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		0.092	0.040	1,56E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]