

Designation: ddrtxn06a-07 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Floor towards attic (uninhabitable) - ddrtxn06a-07

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

Performance rating

Calculation based on GF

REI 30 Fire protection performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.22 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 42(-2;-8) dB $L_{n,w}$ (C_{l}) Assessed by TGM Mass per unit area 65.50 kg/m^2

B A

C C D

Note: e=400

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

	Thickness	Building material	Thermal per	rformance			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	15.0	OSB	0.130	200	600	1.700	D
С	220.0	spruce wood floor joists (80/*); e=*	0.120	50	450	1.600	D
D	220.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
E	15.0	OSB	0.130	200	600	1.700	D
F		vapour barrier sd≥ 7m			1000		
G	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
Н	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
Н	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²) Database ecoinvent OI3_{Kon} 25.2

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		0.126	0.055	2,43E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	139.811	702.477	842.288	440.585	26.141	466,726