

Designation: ddrtxn02a-07 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

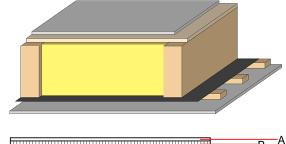
Floor towards attic (uninhabitable) - ddrtxn02a-07

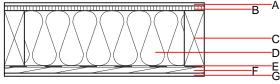
floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

Performance rating

Calculation based on GF

Fire protection REI 30 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}) 43(-4;-9) dB $L_{n,w}$ (C_{l}) Assessed by TGM Mass per unit area 62.40 kg/m^2





Note: e=400

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	19.0	particleboard	0.130	50 - 100	700	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		vapour barrier sd≥ 8m			1000			
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} 24.4 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		0.112	0.050	2,12E-6	0.026	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	88.429	603.449	691.877	430.637	33.674	464.311