

Designation: ddrtxn03b-00 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

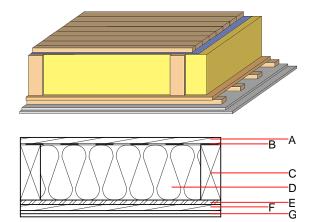
Floor towards attic (uninhabitable) - ddrtxn03b-00

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

Performance rating

REI 60 Fire protection performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance $0.19 \text{ W/(m}^2\text{K)}$ U Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 43(-3;-7) dB $L_{n,w}$ (C_{l}) Assessed by TGM Mass per unit area 64.00 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	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	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
E	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	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 23.8 OI3_{Kon}



Designation: ddrtxn03b-00 8/2/23 Holzforschung Austria Last updated:

Source:

HFA, SP Editor:

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		0.119	0.053	2,34E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	108.127	634.533	742.660	409.921	19.412	429.334