

Designation: gdrtxn01b-06 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrtxn01b-06

intermediate floor, timber frame construction, not suspended, dry, with filling, other surface

Performance rating

Calculation based on GF

Fire protection

performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.27 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 63(-5;-12) dB $L_{n,w}$ (C_{l}) 58(1) Assessed by TGM Mass per unit area 144.30 kg/m^2

60

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	25.0	dry screed	0.210	8	900	1.050	A1	
В	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1	
С	40.0	fill	0.700	1	1800	1.000	A1	
D		trickling protection					E	
E	18.0	OSB	0.130	200	600	1.700	D	
F	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
G	100.0	sheep wool [0,041; R=16]	0.041	1	16	1.720	E	
Н	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D	
ı	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
ı	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent OI3_{Kon} 26.2 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		0.108	0.047	2,62E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]