

Designation: gdrtxn03b-03 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrtxn03b-03

intermediate floor, timber frame construction, not suspended, dry, without filling, other surface

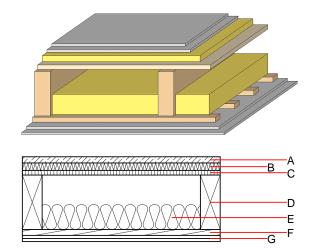
Performance rating

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 $0.25 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 50(-2;-9) dB $L_{n,w}$ (C_{l}) 66(0) Assessed by TGM Mass per unit area

60



Note: e=625;

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

 76.90 kg/m^2

	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	19.0	particleboard	0.130	50 - 100	700	1.700	D	
D	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
Е	100.0	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1	
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)

Database ecoinvent

 013_{Kon} 42.1

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		0.164	0.074	3,43E-6	0.029	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	77.224	473.735	550.959	638.874	29.215	668.089