

Designation: gdrtxn02b-04 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrtxn02b-04

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

Performance rating

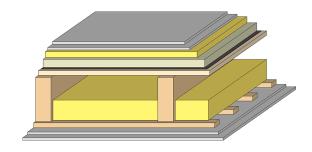
Fire protection

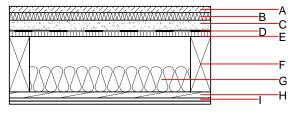
performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.26 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 63(-4;-11) dB $L_{n,w}$ (C_{l}) 58(0)

60

Assessed by TGM Mass per unit area

Calculation based on GF





Note: e=625;

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

 147.40 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	40.0	fill	0.700	1	1800	1.000	A1	
D		trickling protection					Е	
Е	19.0	particleboard	0.130	50 - 100	700	1.700	D	
F	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
G	100.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1	
Н	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D	
1	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
I	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent OI3_{Kon} 35.2 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		0.145	0.056	2,60E-6	0.040	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
				525.311	33.037	558.348