

Designation: gdrtxn03a-05 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrtxn03a-05

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

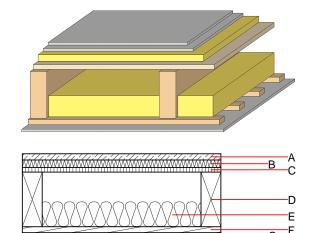
Performance rating

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 $0.26 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 51(-3;-10) dB $L_{n,w}$ (C_{l}) 66(1) Assessed by TGM Mass per unit area $67.30~\textrm{kg/m}^{2}$

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Note: e=625;

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

	Thickness	Building material	Thermal pe	rformance			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	cellulose fibre [040; E]	0.040	1 - 2	55	2.000	E
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} 25.1

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		0.108	0.047	2,20E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	70.231	517.194	587.425	427.975	29.215	457.190