

Designation: gdrtxa03b-08 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrtxa03b-08

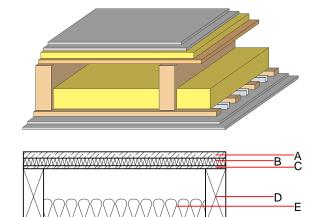
intermediate floor, timber frame construction, suspended, dry, without filling, other surface

Performance rating

Fire protection performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA

Thermal performance	U Diffusion	0.27 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	61(-4;-11) dB 55(1)
Mass per unit area	m	80.10 kg/m²

Calculation based on GF



F/G

Note: e=400;

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	18.0	OSB	0.130	200	600	1.700	D
D	220.0	construction timber (80/; e=400) (80/; e=*)	0.120	50	450	1.600	D
E	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	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	27.0	resilient channel (placed between open formwork)	0.156				
Н	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
Н	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 34.0

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		0.152	0.059	2,63E-6	0.043	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
(Titases)	[5]	Fried.	F			