

Designation: gdrtxn02b-07 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrtxn02b-07

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

Performance rating

Fire protection performance

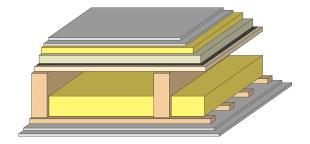
maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.27 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 61(-4;-11) dB $L_{n,w}$ (C_{l}) 61(1)

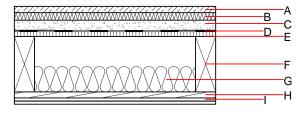
60

Assessed by TGM

Mass per unit area 144.20 kg/m^2

Calculation based on GF





Note: e=625;

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

24.9

	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 EPS-T	0.040	20 - 50	11	1.450	E
С	40.0	fill	0.700	1	1800	1.000	A1
D		trickling protection					E
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 [040; ≥16; <1000°C]	0.040	1	16	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
I	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}

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		0.096	0.040	2,18E-6	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	66.914	473.735	540.650	432.326	46.237	478.564