

Designation: gdrnxa08b-04 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrnxa08b-04

intermediate floor, timber frame construction, suspended, wet, 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

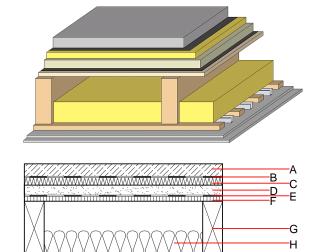
Mass per unit area

Thermal performance U $0.26 \text{ W/(m}^2\text{K)}$ Diffusion suitable

energy storage capacity per unit area above: 103,9 kg/m² Calculated by HFA

Acoustic performance 70(0;-4) dB R_w (C;C_{tr}) $L_{n,w}$ (C_I) 41(0)

Calculation based on gypsum plaster board type DF



Note: e=625;

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

 227.50 kg/m^2

	Thickness	Building material	Thermal performance				Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	50.0	cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	A1
В		plastic separation layer	0.200	100000	1400	1.400	Е
С	30.0	impact sound absorbing subflooring MW-T [s'=10 MN/m³]	0.035	1	68	1.030	A1
D	40.0	fill	0.700	1	1800	1.000	A1
Е		trickling protection					Е
F	19.0	particleboard	0.130	50 - 100	700	1.700	D
G	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
Н	100.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
I	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
J	27.0	resilient channel placed between cladding with spacing	0.156				
K	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
K	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

46.3 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		0.182	0.080	2,74E-6	0.046	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	81.195	473.735	554.930	633.864	36.859	670.723