

Designation: gdrnxa08b-02 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

# Intermediate floor - gdrnxa08b-02

intermediate floor, timber frame construction, suspended, wet, with filling, other surface

### Performance rating

Fire protection REI 60 performance maximum span = 5 m; maximum load  $E_{d,fi}$  = 3,66 kN/m²

Classified by HFA

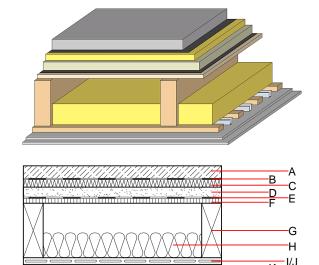
Thermal performance U 0.26 W/(m²K)

Diffusion suitable

energy storage canacity per unit area above: 103.9 kg/m²

energy storage capacity per unit area above: 103,9 kg/m $^2$  Calculated by HFA

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)

	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					E	
F	19.0	particleboard	0.130	50 - 100	700	1.700	D	
G	240.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
Н	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	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 m<sup>2</sup>)

Database ecoinvent

Ol3<sub>Kon</sub> 43.5

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#### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.165	0.080	2,93E-6	0.032	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	85.514	494.699	580.212	635.563	36.859	672.423