

Designation: gdrnxa05b-08 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, PLB

Intermediate floor - gdrnxa05b-08

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

Performance rating

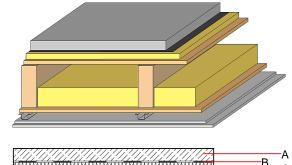
Fire protection REI 60 performance

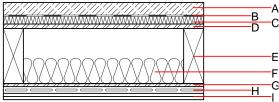
maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² (without floor construction and 12mm OSB; with ceiling beam 80/200)

Classified by IBS Classified by HFA

Thermal performance	U Diffusion	0.26 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	55(-3;-9) dB 67(0)
Assessed by TGM		
Mass per unit area	m	178.90 kg/m ²

Calculation based on gypsum plaster board type DF





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

	Thickness	Building material	Thermal per	Thermal performance			
			λ	μ min – max	ρ	С	EN
Α	50.0	anhydrite screed or cement screed	0.700	10	2200	1.300	A1
В		plastic separation layer	0.200	100000	1400	1.400	E
С	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1
D	18.0	OSB	0.130	200	600	1.700	D
E	220.0	construction timber (80/; e=400)	0.120	50	450	1.600	D
F	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
G	12.0	OSB	0.130	200	600	1.700	D
Н	27.0	resilient channel					
ı	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} 43.0

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		0.179	0.085	3,22E-6	0.034	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]