

Designation: gdrnxa03b-00 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

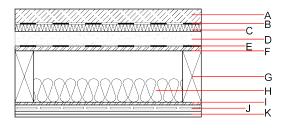
Intermediate floor - gdrnxa03b-00

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

Performance rating

Mass per unit area

REI 60 Fire protection performance maximum span = 5 m; maximum load $E_{d,fi}$ = 2,62 kN/m² Classified by HFA Thermal performance U $0.25 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 74(-4;-12) dB $L_{n,w}$ (C_l) 47(0) Assessed by HFA



Note: e=625;

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)

 312.40 kg/m^2

	Thickness	Building material	Thermal performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN	
Α	60.0	cement screed or cement screed	1.330	50 - 100	2500	1.080		
В		plastic separation layer	0.200	100000	1400	1.400	E	
С	30.0	impact sound absorbing subflooring MW-T [s' = 10 MN/m³]	0.033	1	70	1.030	A1	
D	60.0	elastic bonded (PUR) chippings, m' approx. 90 kg/m²	0.700	1	1500	1.000	A1	
E		trickling protection					E	
F	18.0	OSB	0.130	200	600	1.700	D	
G	240.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
Н	100.0	mineral wool [038; ≥30; ≥1000°C]	0.038	1	30	1.030	A1	
T	12.0	OSB	0.130	200	600	1.700	D	
J	27.0	resilient channel						
K	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
K	25.0	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²) Database ecoinvent Ol3_{Kon} 52.8 Calculated by HFA



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Details of sustainability rating

Database ecoinvent

	1	1	1	1	1	1
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		0.215	0.100	3,75E-6	0.040	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	163.451	710.518	873.970	761.616	48.971	810.587