

Designation: gdrnxa03a-01 Last updated: 8/2/23

Source: Holzforschung Austria

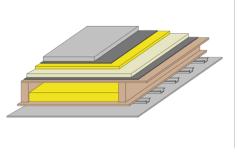
Editor: HFA, SP

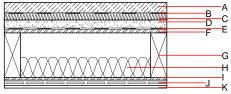
Intermediate floor - gdrnxa03a-01

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

Performance rating

Fire protection 30 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}) 67(-9;-18) dB $L_{n,w}$ (C_{l}) 50(6) Assessed by TGM Mass per unit area





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	anhydrite screed or cement screed	0.700	10	2200	1.300	A1	
В		plastic separation layer	0.200	100000	1400	1.400	Е	
С	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1	
D	40.0	fill	0.700	1	1800	1.000	A1	
E		trickling protection					E	
F	18.0	OSB	0.130	200	600	1.700	D	
G	200.0	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	
1	12.0	OSB	0.130	200	600	1.700	D	
J	27.0	resilient channel						
K	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
K	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent OI3_{Kon} 41.9

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		0.169	0.080	2,87E-6	0.030	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	119.715	502.666	622.380	589.334	29.327	618.660