

Designation: gdrnxa03a-02 Last updated: 8/2/23

Source: Holzforschung Austria

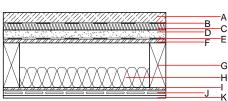
Editor: HFA, SP

Intermediate floor - gdrnxa03a-02

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}) 68(-8;-17) dB $L_{n,w}$ (C_{l}) 49(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 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	40.0	fill	0.700	1	1800	1.000	A1
Ε		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 [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
I	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)

Calculated by HFA

Database ecoinvent Ol3_{Kon} 42.0



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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		0.172	0.081	2,92E-6	0.031	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]