

Designation: gdrnxa04a-00 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrnxa04a-00

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

Performance rating

Fire protection

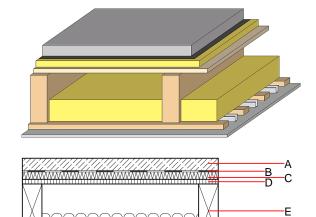
performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.27 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 66(-1;-6) dB $L_{n,w}$ (C_{l}) 52(0)

30

Assessed by TGM

Mass per unit area $144.00~\textrm{kg/m}^2$

Calculation based on GF



G/H

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	E	
С	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1	
D	19.0	particleboard	0.130	50 - 100	700	1.700	D	
E	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
F	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
G	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D	
Н	27.0	resilient channel (placed between open formwork)	0.156					
I	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
I	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent OI3_{Kon} 39.9

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		0.154	0.076	2,57E-6	0.030	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	79.174	473.735	552.909	579.535	33.037	612.572