

Designation: gdrnxn04b-03 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

Intermediate floor - gdrnxn04b-03

intermediate floor, timber frame construction, not suspended, wet, without filling, other surface

Performance rating

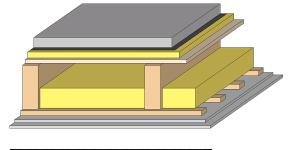
Fire protection

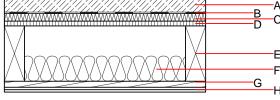
performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA Thermal performance U $0.25 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 58(-5;-12) dB $L_{n,w}$ (C_{l}) 63(0) Assessed by TGM

60

Calculation based on GF

Mass per unit area





Note: e=625;

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

 $157.00~\textrm{kg/m}^2$

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	50.0	cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	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	19.0	particleboard	0.130	50 - 100	700	1.700	D
Е	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
F	100.0	mineral wool [035; 50; <1000°C]	0.035	1	50	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	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
Н	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent OI3_{Kon} 49.4 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		0.187	0.090	3,42E-6	0.033	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	85.674	473.735	559.409	705.001	33.037	738.039