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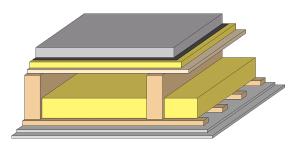
Designation: Last updated: Source: Editor:

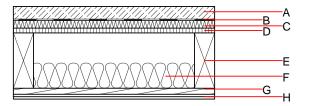
gdrnxn04b-06 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxn04b-06

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

Performance rating		
Fire protection performance	REI	60
maximum span = 5 m; max Classified by HFA	timum load $E_{d,fi} = 3,66 \text{ kN/}$	m²
Thermal performance	U Diffusion	0.28 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	58(-5;-12) dB 63(0)
Assessed by TGM		
Mass per unit area Calculation based on GF	m	154.00 kg⁄m²





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	
50.0	cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	A1	
	plastic separation layer	0.200	100000	1400	1.400	E	
30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1	
19.0	particleboard	0.130	50 - 100	700	1.700	D	
220.0	construction timber (80/; $e=*$)	0.120	50	450	1.600	D	
100.0	sheep wool [0,041; R=16]	0.041	1	16	1.720	E	
24.0	spruce wood cladding with spacing of cladding boards(24/100); $a=400$	0.120	50	450	1.600	D	
25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

34.3

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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		0.128	0.063	2,49E-6	0.026	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[LM]	[MJ]	[LM]
A1 - A3	77.420	505.853	583.273	535.633	33.351	568.984

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.