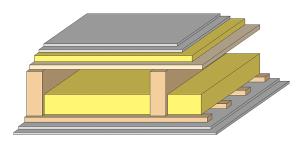
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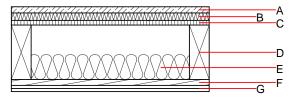
Designation: Last updated: Source: Editor: gdrtxn03b-02 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrtxn03b-02

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

Performance rating						
Fire protection performance	REI	60				
maximum span = 5 m; ma Classified by HFA	iximum load E _{d,fi} = 3,66	5 kN/m²				
Thermal performance	U Diffusion	0.26 W∕(m ² K) suitable				
Calculated by HFA						
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	52(-2;-9) dB 65(0)				
Assessed by TGM						
Mass per unit area	m	75.20 kg/m ²				
Calculation based on GF						





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	formance			Reaction to fire
		λ	µ min – max	ρ	с	EN
25.0	dry screed	0.210	8	900	1.050	A1
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
240.0	construction timber (80/; $e=*$)	0.120	50	450	1.600	D
100.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
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

31.2

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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		0.124	0.055	2,73E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[MJ]	[LM]	[MJ]	[LM]
A1 - A3	75.097	494.699	569.796	515.627	29.215	544.842

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.