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gdrtxa03b-10 8/2/23 Holzforschung Austria HFA, SP

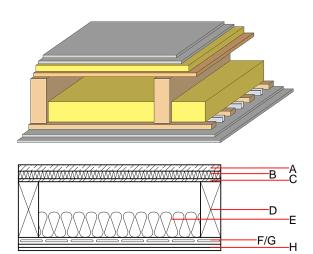
Intermediate floor - gdrtxa03b-10

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

Performance rating

Fire protection performance	REI	60
Classified by HFA		
Germany		
Load $E_{d,fi}$ according to the	e German certification	document
Thermal performance	U Diffusion	suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	63(-3;-10) dB 56(0)
Mass per unit area	m	78.10 kg/m ²

Calculation based on gypsum plaster board type DF



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

	Thickness	Building material	Thermal pe	Thermal performance			
			λ	µ min – max	ρ	с	EN
	25.0	dry screed	0.210	8	900	1.050	A1
	30.0		0.040	1	180	1.030	A1
	22.0	OSB	0.130	200	600	1.700	D
)	220.0	construction timber (80/; e=625) (80/; e=*)	0.120	50	450	1.600	D
	100.0	Wood fibre insulation [039; 45]	0.039	1 - 2	45	2.100	E
	24.0	0 spruce wood cladding with spacing of cladding boards(24/100); a=400		50	450	1.600	D
	27.0	resilient channel (placed between open formwork)	0.156				
1	25.0	0 gypsum plaster board type DF (2x12,5 mm) or		10	800	1.050	A2
I	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent		Database GaBi (ÖKOBAUDAT)		
OI3_{Kon} Calculated by HFA	32.5	Built-in renewable materials Biogenic carbon in kg CO ₂ -e. Energy use of Primary Energy Share of renewable PE	kg kg CO ₂ MJ %	32.390 48.080 878.810 27.33

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.

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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		0.141	0.053	2,50E-6	0.040	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[M]	[M]	[M]	[LM]	[MJ]	[LM]
A1 - A3	104.647	516.995	621.641	484.435	26.477	510.912

Database GaBi (ÖKOBAUDAT)

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		0.125	0.022	7,85E-7	0.026	
C1 - C4		0.006	0.002	8,39E-8	0.001	
A1 - C4		0.134	0.025	8,83E-7	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[LM]	[LM]	[LM]	[MJ]	[LM]
A1 - A3	237.430	708.240	947.100	604.070	30.710	634.910
C1 - C4	2.030	-697.180	-695.150	23.890	-23.150	0.740
A1 - C4	240.210	11.580	253.220	638.600	7.660	646.390