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gdrnxa10b-03 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxa10b-03

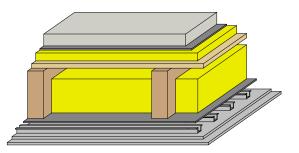
intermediate floor, timber frame construction, suspended, wet, without filling, other surface

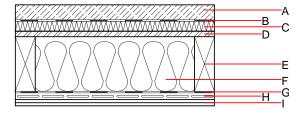
Performance rating

Mass per unit area

Fire protection performance	REI	60
maximum span = 5 m; ma construction, with ceiling b Classified by HFA	-1-	= 3,66 kN∕m² (without floor
Germany		
F60		
Load $E_{d,fi}$ according to the	German certific	ation document
Corresponding proof: DIN	4102-4:2016-0	5, Tabelle 10.12, Zeile 4
Thermal performance	U Diffusion	
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	74(-1;-6) dB 51(2)
Assessed by Müller-BBM		

m





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

188.90 kg/m²

	Thickness	Building material	Thermal per	Reaction to fire			
			λ	µ min – max	ρ	с	EN
ł	60.0	anhydrite screed or cement screed	0.700	10	2200	1.300	A1
3	0.2	plastic separation layer	0.200	100000	1400	1.400	E
2	40.0	impact sound absorbing subflooring MW [s' =7 MN/m ²]	0.033	1	30	0.030	A1
)	22.0	OSB	0.130	200	600	1.700	D
	240.0	construction timber (80/; e=625)	0.120	50	450	1.600	D
	200.0	mineral wool [040; 11; <1000°C]	0.040	1	11	1.030	A1
5	0.2	trickling protection					E
ł	27.0	resilient channel	0.156				
	36.0	gypsum plaster board type DF (2xmm)	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent		Database GaBi (ÖKOBAUDAT)		
Ol3_{Kon} Calculated by HFA	50.7	Built-in renewable materials Biogenic carbon in kg CO ₂ -e. Energy use of Primary Energy Share of renewable PE Calculated by TUM	kg kg CO ₂ MJ %	24.490 36.880 771.220 18.30

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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Designation: Last updated: Source: Editor: gdrnxa10b-03 8/2/23 Holzforschung Austria HFA, SP

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		0.192	0.093	3,62E-6	0.032	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[M]	[M]	[M]	[MJ]
A1 - A3	120.993	466.453	587.446	710.334	23.545	733.878

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		0.178	0.026	9,16E-7	0.026	
C1 - C4		0.012	0.005	9,40E-8	0.002	
A1 - C4		0.199	0.034	1,03E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[M]	[MJ]	[LM]
A1 - A3	139.028	435.483	575.427	598.419	36.377	634.906
C1 - C4	0.915	-423.099	-420.818	14.574	-9.389	23.905
A1 - C4	141.101	12.901	156.867	630.121	27.140	685.860