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Designation: Last updated: Source: Editor: gdrnxa03a-05 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxa03a-05

intermediate floor, timber frame construction, suspended, wet, with filling, other surface

Performance rating	9	
Fire protection performance	REI	30
maximum span = 5 m; ma Classified by HFA	aximum load E _{d,fi} = 2,	,62 kN/m²
Thermal performance	U Diffusion	0.25 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	68(-9;-18) dB 50(6)
Assessed by TGM		
Mass per unit area	m	

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
50.0	anhydrite screed or cement screed	0.700	10	2200	1.300	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
40.0	fill	0.700	1	1800	1.000	A1
	trickling protection					E
18.0	OSB	0.130	200	600	1.700	D
220.0	construction timber (80/; $e=*$)	0.120	50	450	1.600	D
100.0	cellulose fibre [0,040; R=55]	0.040	1 - 2	55	2.000	В
12.0	OSB	0.130	200	600	1.700	D
27.0	resilient channel					
12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

38.3

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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		0.161	0.076	2,67E-6	0.029	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]

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.