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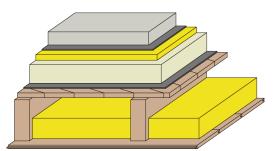
Designation: Last updated: Source: Editor:

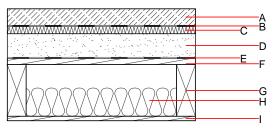
gdsnxn01a-00 8/2/23 Holzforschung Austria HFA, PLB

Intermediate floor - gdsnxn01a-00

intermediate floor, timber frame construction, directly, wet, with filling, wooden surface

Performance rating	g	
Fire protection performance	REI	30
maximum span = 5 m; ma Classified by HFA	aximum load E _{d,fi} = 3,	66 kN/m²
Thermal performance	U Diffusion	0.21 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	68(-1;-6) dB 52(2)
Assessed by TGM		
Mass per unit area	m	354.20 kg/m ²





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

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
	70.0	cement 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 [s' = 10 MN/m ³]	0.033	1	70	1.030	A1
)	100.0	fill loose	0.700	1	1800	1.000	A1
		trickling protection					E
	25.0	planking spruce wood diagonal	0.120	50	450	1.600	D
	220.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
1	120.0	mineral wool [035; ≥23; ≥1000°C]	0.035	1	23	1.030	A1
	19.0	planking profile C	0.120	50	450	1.600	

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

36.7

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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		0.165	0.074	2,19E-6	0.044	
	DEDE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle	PERE		I LINI	I LINIL		I LININ
Lifecycle (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.