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Designation: Last updated: Source: Editor: gdrnxa05a-03 8/2/23 Holzforschung Austria HFA, PLB

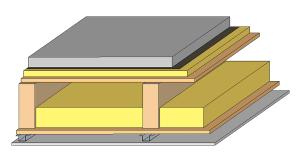
Intermediate floor - gdrnxa05a-03

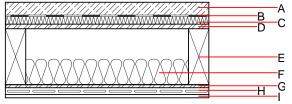
intermediate floor, timber frame construction, suspended, wet, without filling, other surface

Performance rating

Fire protection performance	REI	30
	ximum load E _{d,fi} = 2,62 kN/ SB; with ceiling beam 60/20	
Thermal performance	U Diffusion	0.24 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	58(-1;-7) dB 61(0)
Assessed by TGM		
Mass per unit area	m um plaster board type DF	154.10 kg/m ²

Calculation based on gypsum plaster board type D





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
٩	50.0	anhydrite screed	0.700	10	2200	1.300	A1
3		plastic separation layer	0.200	100000	1400	1.400	E
2	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1
D	18.0	OSB	0.130	200	600	1.700	D
	220.0	construction timber (80/; e=625)	0.120	50	450	1.600	D
:	100.0	mineral wool [035; 50; <1000 °C]	0.035	1	50	1.030	A1
5	12.0	OSB	0.130	200	600	1.700	D
1	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

51.7

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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		0.208	0.099	3,57E-6	0.034	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[M]

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.