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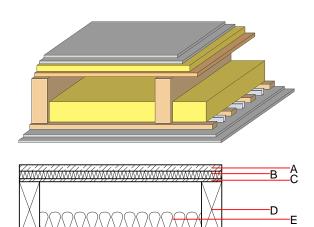
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Intermediate floor - gdrtxa03b-01

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

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	ximum load E _{d,fi} = 3,66 kN/	′m²
Thermal performance	U Diffusion	0.26 W∕(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	64(-3;-10) dB 53(2)
Mass per unit area Calculation based on GF	m	71.00 kg/m ²



F/G H

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
A	25.0	dry screed	0.210	8	900	1.050	A1
В	30.0		0.040	1	180	1.030	A1
С	18.0	OSB	0.130	200	600	1.700	D
D	200.0	construction timber (80/; e=625) (80/; e=*)	0.120	50	450	1.600	D
E	100.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
F	24.0	spruce wood cladding with spacing of cladding boards(24/100); $a=400$	0.120	50	450	1.600	D
G	27.0	resilient channel (placed between open formwork)	0.156				
Н	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
Н	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

34.1

Note: e=625;

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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		0.143	0.055	2,51E-6	0.038	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
LITECYCIE						
(Phases)	[LM]	[M]	[LM]	[MJ]	[M]	[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.