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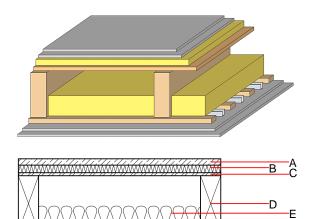
Designation: Last updated: Source: Editor:

gdrtxa03b-09 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrtxa03b-09

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

Performance rating		
Fire protection performance	REI	60
maximum span = 5 m; max Classified by HFA	timum load $E_{d,fi} = 3,66 \text{ kN/}$	m ²
Thermal performance	U Diffusion	0.27 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	61(-5;-12) dB 60(0)
EPS-F with a dynamic stiffn	ess of s' \leq 40MN/m ³ .	
Mass per unit area Calculation based on GF	m	70.80 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 pe	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
ł	25.0	dry screed	0.210	8	900	1.050	A1
3	30.0	Polystyrene EPS-W [0,041]	0.041	20 - 50	15	1.450	E
5	18.0	OSB	0.130	200	600	1.700	D
D	220.0	construction timber (80/; e=625) (80/; e=*)	0.120	50	450	1.600	D
:	100.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
-	24.0	spruce wood cladding with spacing of cladding boards($24/100$); a=400	0.120	50	450	1.600	D
5	27.0	resilient channel (placed between open formwork)	0.156				
4	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
4	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

26.5

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		0.104	0.044	2,31E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
LITCCYCIC						
(Phases)	[LM]	[M]	[LM]	[LM]	[M]	[LM]

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.