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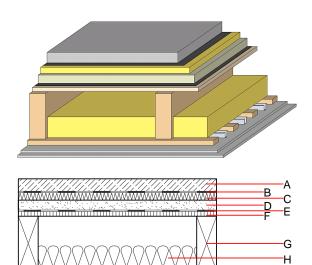
Performance rating

Designation: Last updated: Source: Editor: gdrnxa08b-09 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxa08b-09

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

-		
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	0.27 W∕(m ² K) suitable
energy storage capacity pe Calculated by HFA	er unit area above: 104,5 kg.	/m²
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	65(-2;-7) dB 50(1)
EPS-F with a dynamic stiffr	ness of s' \leq 40MN/m ³ .	
Mass per unit area	m	224.40 kg/m ²
Calculation based on gyps	um plaster board type DF	



Note: e=625;

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

Thickness	Building material	Thermal performance				Reaction to fire	
		λ	µ min – max	ρ	с	EN	
5	.0 cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	A1	
	plastic separation layer	0.200	100000	1400	1.400	E	
3	.0 Polystyrene EPS-W [s'≥26 MN/m³]	0.041	20 - 50	15	1.450	E	
4	.0 fill	0.700	1	1800	1.000	A1	
	trickling protection					E	
19	.0 particleboard	0.130	50 - 100	700	1.700	D	
22	.0 construction timber (80/; e=*)	0.120	50	450	1.600	D	
10	.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	
2	.0 resilient channel placed between cladding with spacing	0.156					
2	.0 gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
2	.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

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.

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K I/J

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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		0.134	0.064	2,33E-6	0.031	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[LM]	[MJ]	[LM]
A1 - A3	77.097	473.735	550.832	545.296	53.059	598.356

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