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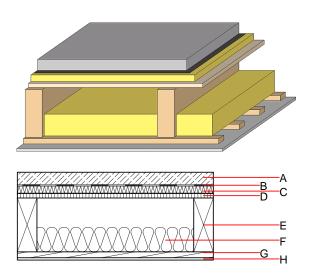
Designation: Last updated: Source: Editor:

gdrnxn04a-03 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxn04a-03

intermediate floor, timber frame construction, not suspended, wet, without filling, other surface

Performance rating		
Fire protection performance	REI	30
maximum span = 5 m; max Classified by HFA	ximum load E _{d,fi} = 3,66 kN∕	m²
Thermal performance	U Diffusion	0.25 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	58(-5;-12) dB 64(0)
Assessed by TGM		
Mass per unit area Calculation based on GF	m	147.00 kg/m ²



Note: e=625;

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

	Thickness	Building material	Thermal per	Reaction to fire			
			λ	µ min – max	ρ	с	EN
٩	50.0	cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	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
)	19.0	particleboard	0.130	50 - 100	700	1.700	D
	220.0	construction timber (80/; $e=*$)	0.120	50	450	1.600	D
:	100.0	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1
Ĵ	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400 $$	0.120	50	450	1.600	D
ł	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
ł	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

47.0

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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		0.182	0.088	3.14E-6	0.032	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[LM]	[LM]	[LM]	[MJ]	[M]
A1 - A3	83.390	473,735	557.125	664,720	33.037	697.757

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.