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gdrnxa07a-00 8/2/23 Holzforschung Austria HFA, SP

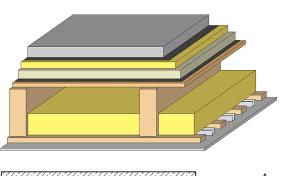
Intermediate floor - gdrnxa07a-00

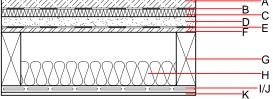
intermediate floor, timber frame construction, suspended, wet, with filling, other surface

Performance rating

Fire protection performance	REI	30
maximum span = 5 m; max construction; with ceiling by Classified by IBS Classified by HFA		I∕m² (without floor
Thermal performance	U Diffusion	0.26 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	70(-1;-5) dB 41(1)
Assessed by TGM		
Mass per unit area	m	214.40 kg/m ²

Calculation based on gypsum plaster board type DF





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

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
	50.0	cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	A1
		plastic separation layer	0.200	100000	1400	1.400	E
	30.0	impact sound absorbing subflooring MW-T [s' = 10 MN/m ³]	0.035	1	68	1.030	A1
)	40.0	fill loose	0.700	1	1800	1.000	A1
		trickling protection					E
	18.0	OSB	0.130	200	600	1.700	D
	220.0	construction timber (80/; $e=625$)	0.120	50	450	1.600	D
I	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
	27.0	resilient channel placed between cladding with spacing	0.156				
	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

39.1

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Designation: Last updated: Source: Editor: gdrnxa07a-00 8/2/23 Holzforschung Austria HFA, SP

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		0.158	0.076	2,68E-6	0.028	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[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.