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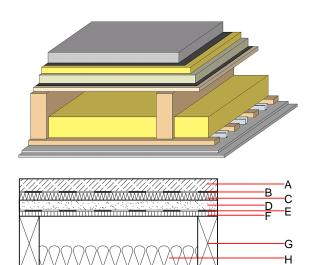
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Intermediate floor - gdrnxa08b-08

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

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	aximum load E _{d,fi} = 3,6	66 kN∕m²
Thermal performance	U Diffusion	0.27 W∕(m ² K) suitable
energy storage capacity p Calculated by HFA	er unit area above: 10)3,9 kg∕m²
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	67(-1;-6) dB 48(1)
Mass per unit area	m	233.80 kg/m ²
Calculation based on gyp	sum plaster board typ	e DF



Note: e=400;

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
	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	0.700	1	1800	1.000	A1
		trickling protection					E
	19.0	particleboard	0.130	50 - 100	700	1.700	D
i	220.0	construction timber (80/; $e=*$)	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				
	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

Calculated by HFA

OI3_{Kon}

43.4

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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		0.172	0.083	3,01E-6	0.035	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[MJ]	[LM]	[MJ]	[MJ]
	104.693	603.449	708.142	652.269	36.859	689.129

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