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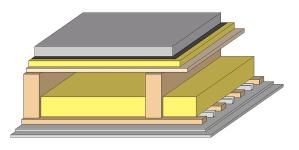
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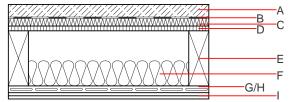
gdrnxa04b-03 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxa04b-03

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

Performance rating		
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	0.25 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	66(-1;-6) dB 51(0)
Assessed by TGM		
Mass per unit area	m	157.00 kg∕m ²
Calculation based on GF		





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	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	50.0	anhydrite screed or cement screed	0.700	10	2200	1.300	A1
В		plastic separation layer	0.200	100000	1400	1.400	E
С	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1
D	19.0	particleboard	0.130	50 - 100	700	1.700	D
E	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
F	100.0	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1
G	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
Н	27.0	resilient channel (placed between open formwork)	0.156				
I	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

53.2

Calculated by HFA

OI3_{Kon}

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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		0.201	0.097	3,58E-6	0.035	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle						
(Phases)	[LM]	[MJ]	[LM]	[LM]	[MJ]	[MJ]

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