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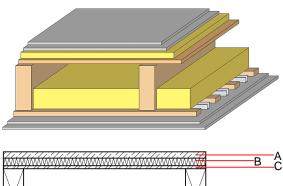
Designation: Last updated: Source: Editor: gdrtxa03b-07 8/2/23 Holzforschung Austria HFA, SP

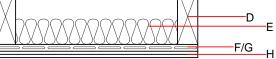
Intermediate floor - gdrtxa03b-07

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

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	aximum load E _{d,fi} = 3,	66 kN∕m²
Thermal performance	U Diffusion	0.27 W∕(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	64(-4;-11) dB 54(1)
Mass per unit area Calculation based on GF	m	70.60 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 pe	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
4	25.0	dry screed	0.210	8	900	1.050	A1
3	30.0	impact sound absorbing subflooring EPS-T	0.040	20 - 50	11	1.450	E
:	18.0	OSB	0.130	200	600	1.700	D
)	220.0	construction timber (80/; e=625) (80/; e=*)	0.120	50	450	1.600	D
	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
5	27.0	resilient channel (placed between open formwork)	0.156				
1	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
1	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

26.1

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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		0.103	0.044	2,30E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	[LM]	[M]	[M]	[LM]	[MJ]	[MJ]
(Phases)	נועון	[113]				

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