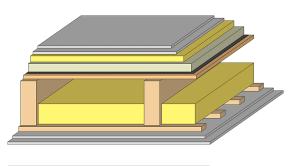
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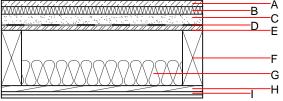
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Intermediate floor - gdrtxn01b-09

intermediate floor, timber frame construction, not suspended, dry, with filling, other surface

Performance rating	9	
Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	aximum load E _{d,fi} = 3,6	6 kN/m²
Thermal performance	U Diffusion	0.27 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	59(-5;-12) dB 65(2)
EPS-F with a dynamic stiff Assessed by TGM	ness of s' \leq 40MN/m ³	3
Mass per unit area	m	142.70 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
١	25.0	dry screed	0.210	8	900	1.050	A1
3	30.0	Polystyrene EPS-W [0,041]	0.041	20 - 50	15	1.450	E
2	40.0	fill	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/; $e=*$)	0.120	50	450	1.600	D
j	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
ł	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
	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

OI3_{Kon}

23.4

Calculated by HFA

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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		0.096	0.039	2,25E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
					FR 413	CA 4 13
(Phases)	[LM]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]

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