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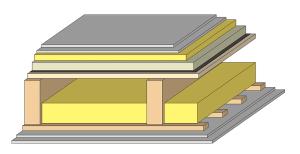
Performance rating

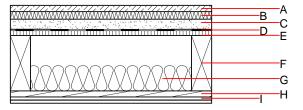
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Intermediate floor - gdrtxn02b-00

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

Performance rating							
Fire protection performance	REI	60					
maximum span = 5 m; m Classified by HFA	aximum load E _{d,fi} = 3,	66 kN∕m²					
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)	63(-4;-11) dB 58(0)					
Assessed by TGM							
Mass per unit area	m	145.90 kg/m ²					
Calculation based on GF							







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
4	25.0	dry screed	0.210	8	900	1.050	A1
3	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1
2	40.0	fill	0.700	1	1800	1.000	A1
D		trickling protection					E
=	19.0	particleboard	0.130	50 - 100	700	1.700	D
-	220.0	construction timber (80/; $e=*$)	0.120	50	450	1.600	D
5	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
1	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}

32.3

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		0.127	0.056	2,76E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[LM]	[MJ]	[LM]
A1 - A3	71.653	473.735	545.388	522.648	33.037	555.685

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