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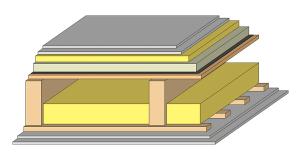
Performance rating

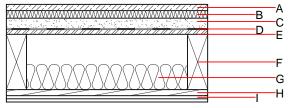
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### Intermediate floor - gdrtxn01b-02

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

Ferrormance rating		
Fire protection performance	REI	60
maximum span = 5 m; max Classified by HFA	kimum load E <sub>d,fi</sub> = 3,66 kN∕	m²
Thermal performance	U Diffusion	0.26 W∕(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	65(-4;-11) dB 57(1)
Assessed by TGM		
Mass per unit area Calculation based on GF	m	145.60 kg⁄m²





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	25.0	dry screed	0.210	8	900	1.050	A1
В	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1
С	40.0	fill	0.700	1	1800	1.000	A1
D		trickling protection					E
E	18.0	OSB	0.130	200	600	1.700	D
F	240.0	construction timber (80/; $e=*$ )	0.120	50	450	1.600	D
G	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
Н	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
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 m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

30.5

Calculated by HFA

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#### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.128	0.056	2,84E-6	0.023	
		1	1	1		
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]

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