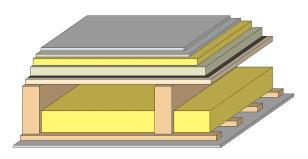
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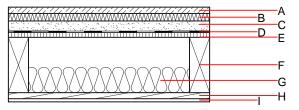
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### Intermediate floor - gdrtxn02a-04

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

Performance rating		
Fire protection performance	REI	30
maximum span = 5 m; max Classified by HFA	ximum 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> )	63(-5;-12) dB 58(2)
Assessed by TGM		
Mass per unit area Calculation based on GF	m	137.40 kg/m <sup>2</sup>





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	19.0	particleboard	0.130	50 - 100	700	1.700	D
F	220.0	construction timber (80/; $e=*$ )	0.120	50	450	1.600	D
G	100.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	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
I	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
1	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

### Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

32.8

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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		0.139	0.054	2,32E-6	0.039	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle						
(Phases)	[LM]	[M]	[LM]	[LM]	[M]	[MJ]

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.