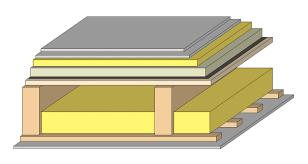
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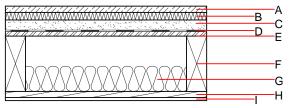
Designation: Last updated: Source: Editor: gdrtxn01a-05 8/2/23 Holzforschung Austria HFA, SP

### Intermediate floor - gdrtxn01a-05

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	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> )	63(-5;-12) dB 58(2)
Assessed by TGM		
Mass per unit area Calculation based on GF	m	137.70 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	c	EN
٩	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
C		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
5	100.0	cellulose fibre [040; E]	0.040	1 - 2	55	2.000	E
1	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

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

Database ecoinvent

24.4

Calculated by HFA

OI3<sub>Kon</sub>

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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		0.111	0.047	2,31E-6	0.020	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[LM]	[MJ]	[LM]	[M]	[MJ]
				396.372	16.832	413.204

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