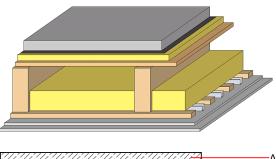
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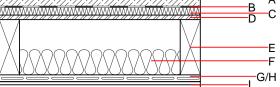
Designation: Last updated: Source: Editor: gdrnxa01b-04 8/2/23 Holzforschung Austria HFA, SP

### Intermediate floor - gdrnxa01b-04

intermediate floor, timber frame construction, suspended, wet, without filling, other surface

Performance rating	]	
Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	iximum load E <sub>d,fi</sub> = 3,6	56 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> )	66(-1;-6) dB 51(0)
Assessed by TGM		
Mass per unit area	m	153.90 kg/m <sup>2</sup>
Calculation based on of		





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	50.0	anhydrite screed or cement screed	0.700	10	2200	1.300	A1
В		plastic separation layer	0.200	100000	1400	1.400	E
С	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1
D	18.0	OSB	0.130	200	600	1.700	D
E	220.0	construction timber (80/; $e=*$ )	0.120	50	450	1.600	D
F	100.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
G	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
Н	27.0	resilient channel (placed between open formwork)	0.156				
I	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
I	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

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

Database ecoinvent

43.2

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		0.176	0.077	2,72E-6	0.043	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	[641]	[M]	[M]	[MJ]	[MJ]	[MJ]
(Phases)	[MJ]	[1013]	[1113]			

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