# dataholz.eu

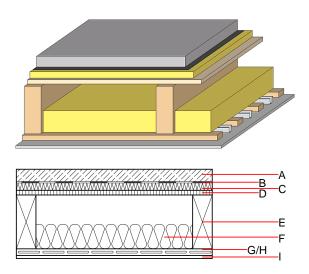
Designation: Last updated: Source: Editor:

gdrnxa04a-01 8/2/23 Holzforschung Austria HFA, SP

### Intermediate floor - gdrnxa04a-01

intermediate floor, timber frame construction, suspended, wet, without 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∕	m <sup>2</sup>
Thermal performance	U Diffusion	0.27 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(-2;-7) dB 53(0)
Assessed by TGM		
Mass per unit area Calculation based on GF	m	142.70 kg/m <sup>2</sup>



### 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	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	19.0	particleboard	0.130	50 - 100	700	1.700	D
E	200.0	construction timber (80/; $e=*$ )	0.120	50	450	1.600	D
F	100.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	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	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
I	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>

39.8

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		0.153	0.075	2,55E-6	0.029	
1 if a sural a	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle	I LIVE					
(Phases)	[MJ]	[MJ]	[LM]	[LM]	[MJ]	[MJ]

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