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Designation: Last updated: Source: Editor:

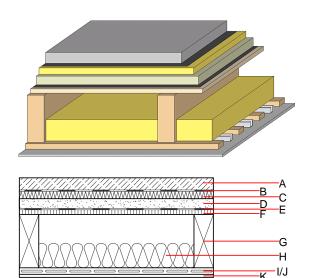
gdrnxa08a-03 8/2/23 Holzforschung Austria HFA, SP

## Intermediate floor - gdrnxa08a-03

intermediate floor, timber frame construction, suspended, wet, with filling, other surface

### Performance rating

Fire protection performance	REI	30
maximum span = 5 m; ma Classified by HFA	uximum load E <sub>d,fi</sub> = 3,66 kN	/m²
Thermal performance	U Diffusion	0.25 W/(m <sup>2</sup> K) suitable
energy storage capacity per Calculated by HFA	er unit area above: 103,9 kg	g∕m²
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>I</sub> )	70(-1;-5) dB 41(1)
Mass per unit area	m	219.00 kg/m <sup>2</sup>
Calculation based on gyps	sum plaster board type DF	



K



## 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
50.0	cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	A1
	plastic separation layer	0.200	100000	1400	1.400	E
30.0	impact sound absorbing subflooring MW-T [s' = 10 $MN/m^3$ ]	0.035	1	68	1.030	A1
40.0	fill	0.700	1	1800	1.000	A1
	trickling protection					E
19.0	particleboard	0.130	50 - 100	700	1.700	D
220.0	construction timber (80/; $e=*$ )	0.120	50	450	1.600	D
100.0	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1
24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
27.0	resilient channel placed between cladding with spacing	0.156				
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

#### OI3<sub>Kon</sub>

Calculated by HFA

52.0

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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		0.200	0.096	3,35E-6	0.035	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[MJ]	[MJ]	[MJ]	[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.