

Designation: gdrtxa02b-05 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Intermediate floor - gdrtxa02b-05

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

Performance rating

Fire protection performance

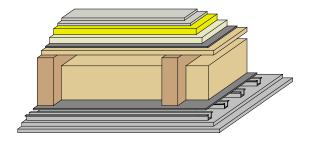
 $60/K_260$

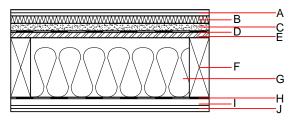
Classified by HFA

Germany

Load $E_{\text{d,fi}}$ according to the German certification document

Thermal performance	U Diffusion	
Acoustic performance	R_w (C;C _{tr}) $L_{n,w}$ (C _l)	78(-1;-7) dB 38(3)
Mass per unit area	m	190.70 kg/m²





Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal performance				Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	25.0	dry screed	0.210	8	900	1.050	A1
В	20.0	impact sound absorbing subflooring MW-T [s'=10 MN/m³]	0.035	1	68	1.030	A1
С	60.0	fill	0.700	1	1500	1.000	A1
D	0.2	trickling protection					E
E	22.0	OSB	0.130	200	600	1.700	D
F	240.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
G	200.0	mineral wool [040; 30; ≥1000°C]	0.040	1	30	1.030	A1
Н	0.2	trickling protection					E
I	27.0	resilient channel cladding with spacing of cladding boards(24/100); a=400					
J	36.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent		Database GaBi (ÖKOBAUDAT)			
Ol3 _{Kon} Calculated by HFA	36.1	Built-in renewable materials Biogenic carbon in kg CO ₂ -e. Energy use of Primary Energy Share of renewable PE	kg kg CO ₂ MJ %	34.440 51.130 1257.590 27.89	



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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.146	0.064	3,29E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	119.178	609.464	728.643	586.936	37.054	623.990

Database GaBi (ÖKOBAUDAT)

Lifecycle	GWP	AP	EP	ODP	POCP
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]
41 - A3		0.150	0.028	6,92E-7	0.034
C1 - C4		0.018	0.004	9,24E-8	0.002
A1 - C4		0.172	0.033	8,06E-7	0.036

Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	344.060	891.130	1236.100	832.730	48.020	880.860
C1 - C4	5.530	-880.270	-874.750	58.160	-41.390	16.770
A1 - C4	350.740	11.370	363.020	906.860	6.790	913.750