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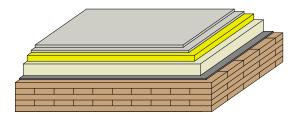
gdmtxn01-00 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdmtxn01-00

intermediate floor, solid wood construction, without lining, dry, with filling, wooden surface

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	ximum load E _{d,fi} = 5 kN∕m²	
Germany REI60		
Load $\boldsymbol{E}_{d,fi}$ according to the	German certification docum	ent
Corresponding proof: man	ufacturer-specific	
Thermal performance	U Diffusion	suitable
Thermal performance Acoustic performance	•	suitable 62(-5;-13) dB 50(-1)
	Diffusion R _w (C;C _{tr})	62(-5;-13) dB



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

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
А	25.0	dry screed	0.210	8	900	1.050	A1
В	30.0	impact sound absorbing subflooring MW-T [s' = 40 MN/m ³]	0.040	1	160	0.840	A2
С	60.0	elastic bonded fill (m' aprrox. 90 kg/m²) elastic bonded, m' = 90 kg/m²	0.700	1	1500	1.000	A1
D	0.2	trickling protection					E
Е	140.0	cross laminated timber	0.130	50	500	1.600	D

Sustainability rating (per m²)

Database GaBi (ÖKOBAUDAT) Database ecoinvent OI3_{Kon} 41.4 Built-in renewable materials 68.520 kg Biogenic carbon in kg CO₂-e. kg CO₂ 98.630 Calculated by HFA 967.990 MJ Energy use of Primary Energy Share of renewable PE % 31.21

Calculated by TUM

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Designation: Last updated: Source: Editor: gdmtxn01-00 8/2/23 Holzforschung Austria HFA, SP

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		0.217	0.079	3,37E-6	0.069	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
		[[]] []]	TA 413	[MJ]	[MJ]	[MJ]
(Phases)	[MJ]	[MJ]	[MJ]	נואון	ניאון	[[[1]]]

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.]	
A1 - A3		0.127	0.023	3,67E-6	0.020	
C1 - C4		0.016	0.004	1,68E-7	0.001	
A1 - C4		0.143	0.026	3,83E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[M]	[MJ]	[LM]
A1 - A3	297.826	1161.286	1456.312	618.702	42.774	660.692
C1 - C4	4.314	-1160.600	-1156.286	46.970	0.000	46.970
A1 - C4	302.141	0.686	300.027	665.844	42.774	707.835