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Designation: Last updated: Source: Editor: gdmnxn03-00 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdmnxn03-00

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

Performance rating

Fire protection performance	REI	60							
maximum span = 5 m; ma Classified by HFA	aximum load $E_{d,fi} = 5$	kN∕m²							
Germany									
REI60									
Load E _{d.fi} according to the German certification document									
Corresponding proof: mar	ufacturer-specific								
Thermal performance	U Diffusion	suitable							
Acoustic performance	R _w (C;C _{tr})	74(-2;-8) dB							
	L _{n,w} (C _l)	45(-1)							
Assessed by Müller-BBM									
Mass per unit area	m	409.00 kg/m ²							



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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	Reaction to fire			
			λ	µ min – max	ρ	с	EN
А	60.0	cement screed	1.330	50 - 100	2000	1.080	A1
В	0.2	plastic separation layer	0.200	100000	1400	1.400	E
С	40.0	impact sound absorbing subflooring MW-T [s' = 10 MN/ m^3]	0.035	1	68	1.030	A1
D	120.0	elastic bonded fill elastic bonded, m' = 180 kg/m ²	0.700	1	1500	1.000	A1
Е	0.2	trickling protection					E
F	140.0	cross laminated timber	0.130	50	500	1.600	D

Sustainability rating (per m²)

Database ecoinvent

Calculated by HFA

OI3_{Kon}

53.2

Database GaBi (ÖKOBAUDAT)

Built-in renewable materials	ka	68 520
Biogenic carbon in kg CO ₂₋ e	ka CO.	98.630
Enormy use of Drimony Enormy	Kg CO ₂	1040 010
Chara of remove bla DC		1049.010
Share of renewable PE	%	29.70

Calculated by TUM

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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		0.244	0.111	4,04E-6	0.063	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[LM]	[LM]	[LM]	[MJ]	[LM]
A1 - A3	58.065	957.600	1015.665	812.618	31.697	844.315

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		0.158	0.027	3,72E-6	0.022	
C1 - C4		0.033	0.006	1,69E-7	0.003	
A1 - C4		0.194	0.034	3,89E-6	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[LM]	[LM]	[LM]	[MJ]	[M]
A1 - A3	305.272	1161.515	1463.987	671.184	52.364	722.765
C1 - C4	6.443	-1160.600	-1152.789	66.483	0.000	85.203
A1 - C4	311.717	0.915	311.780	737.898	52.364	817.967