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Designation: Last updated: Source: Editor:

Floor towards attic (uninhabitable) - ddrtxn07a-00

floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

Performance rating

Fire protection REI 30 performance

maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA

Germany

F30

Load E_{d.fi} according to the German certification document

Corresponding proof: DIN 4102-4:2016-05, Tabelle 10.12, Zeile 1 in conjunction with 10.7.5 (to attic no floating screed necessary)

Thermal performance	U Diffusion	0.19 W∕(m ² K) suitable	
Calculated by TUM			
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	42(-2;-6) dB	
Assessed by Müller-BBM			
Mass per unit area	m	40.80 kg/m ²	

Calculation based on gypsum plaster board type DF



ddrtxn07a-00

Holzforschung Austria

8/2/23

HFA, SP

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
А	19.0	particleboard	0.130	50 - 100	700	1.700	D
В	220.0	construction timber (80/; e=625)	0.120	50	450	1.600	D
С	220.0	mineral wool [040; 11; <1000°C]	0.040	1	11	1.030	A1
D		vapour barrier sd≥ 8m			1000		
E	24.0	spruce wood cladding with spacing of cladding boards($24/100$); a=400	0.120	50	450	1.600	D
F	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
F	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

17.6

Database GaBi (ÖKOBAUDAT)

Built-in renewable materials Biogenic carbon in kg CO ₂ -e.	kg kg CO ₂	28.830 42.030
Energy use of Primary Energy	MJ	377.520
Share of renewable PE	%	26.60

Calculated by TUM

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Designation: Last updated: Source: Editor: ddrtxn07a-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		0.081	0.036	1,43E-6	0.020	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[LM]	[LM]	[MJ]	[MJ]
A1 - A3	60.968	473.735	534.703	316.947	33.674	350.621

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		0.088	0.014	1,22E-6	0.012	
C1 - C4		0.002	0.002	8,58E-8	0.000	
A1 - C4		0.092	0.017	1,32E-6	0.013	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[LM]	[LM]	[MJ]	[MJ]
A1 - A3	99.674	453.983	555.179	261.290	29.218	290.643
C1 - C4	0.369	-447.705	-447.336	9.461	-11.166	-1.705
A1 - C4	100.430	6.538	108.489	277.087	18.104	295.326