

Designation: ddrtxn06a-01 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

# Floor towards attic (uninhabitable) - ddrtxn06a-01

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

## Performance rating

Calculation based on GF

Calculated by HFA

Fire protection REI 30 performance maximum span = 5 m; maximum load  $E_{d,fi}$  = 3,66 kN/m<sup>2</sup> Classified by HFA Thermal performance U  $0.22 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance  $R_w$  (C;C<sub>tr</sub>) 45(-1;-7) dB  $L_{n,w}$  ( $C_{l}$ ) Assessed by TGM Mass per unit area  $56.30 \text{ kg/m}^2$ 

B A

Note: e=625

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	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
Α	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	
В	15.0	OSB	0.130	200	600	1.700	D	
С	200.0	spruce wood floor joists (80/*); e=*	0.120	50	450	1.600	D	
D	200.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
E	15.0	OSB	0.130	200	600	1.700	D	
F		vapour barrier sd≥ 7m			1000			
G	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D	
Н	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
Н	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

# Sustainability rating (per m²) Database ecoinvent Ol3<sub>Kon</sub> 24.6

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.



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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		0.115	0.050	2,26E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	112.798	551.800	664.598	407.909	26.141	434.050