

Designation: ddrtxn06b-06 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

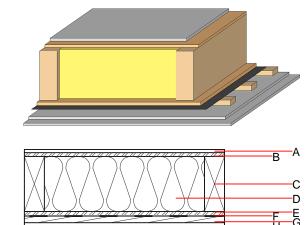
# Floor towards attic (uninhabitable) - ddrtxn06b-06

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

### Performance rating

Calculation based on GF

Fire protection 60 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>) 46(-2;-8) dB  $L_{n,w}$  ( $C_{l}$ ) Assessed by TGM Mass per unit area  $67.80 \text{ kg/m}^2$ 



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	220.0	spruce wood floor joists (80/*); e=*	0.120	50	450	1.600	D
D	220.0	sheep wool [0,041; R=16]	0.041	1	16	1.720	E
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	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
Н	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

# Sustainability rating (per m<sup>2</sup>)

Database ecoinvent OI3<sub>Kon</sub> 18.9

Calculated by HFA



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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		0.087	0.037	2,19E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	114.009	643.423	757.432	373.081	26.832	399.913