

Designation: ddrtxn06a-02 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

## Floor towards attic (uninhabitable) - ddrtxn06a-02

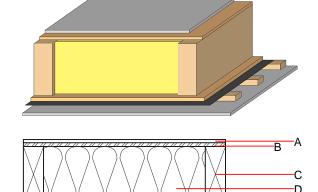
floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

### 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  $0.19 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance  $R_w$  (C;C<sub>tr</sub>) 46(-1;-7) dB  $L_{n,w}$  ( $C_{l}$ ) Assessed by TGM Mass per unit area  $59.40 \text{ kg/m}^2$ 



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	240.0	spruce wood floor joists (80/*); e=*	0.120	50	450	1.600	D
D	240.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
Е	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 m<sup>2</sup>) Database ecoinvent OI3<sub>Kon</sub> 27.2



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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		0.127	0.055	2,47E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	121.620	593.728	715.348	445.347	26.141	471.489