

Designation: ddrtxn03a-04 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

# Floor towards attic (uninhabitable) - ddrtxn03a-04

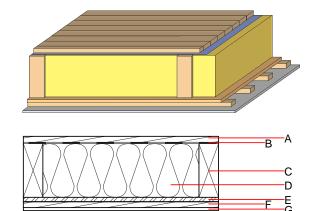
floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

## Performance rating

Mass per unit area

REI 30 Fire protection performance maximum span = 5 m; maximum load  $E_{d,fi}$  = 3,66 kN/m<sup>2</sup> Classified by HFA Thermal performance U  $0.20 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance  $R_w$  (C;C<sub>tr</sub>) 41(-2;-6) dB  $L_{n,w}$  (C<sub>I</sub>)

Calculation based on gypsum plaster board type DF



Note: e=625

## Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

 $57.30 \text{ kg/m}^2$ 

	Thickness	Building material	Thermal performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN	
A	24.0	planking spruce wood	0.120	50	450	1.600	D	
В		wind barrier			1000			
С	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
D	220.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1	
E	18.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D	
F	24.0	spruce wood cladding with spacing of cladding boards(24/100); $a=400$	0.120	50	450	1.600	D	
G	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
G	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

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

Database ecoinvent

 $013_{Kon}$ 27.7

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		0.152	0.051	1,70E-6	0.057	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	104.846	634.533	739.378	377.461	19.412	396.873