

Designation: ddrtxn03a-00 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

## Floor towards attic (uninhabitable) - ddrtxn03a-00

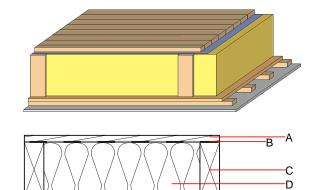
floor towards attic (uninhabitable), timber frame construction, not suspended, dry, Gipsplatte

### Performance rating

Mass per unit area

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  $0.20 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance  $R_w$  (C;C<sub>tr</sub>) 42(-3;-7) 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)

 $54.00 \text{ kg/m}^2$ 

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	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 [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
Ε	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

21.5 OI3<sub>Kon</sub>

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		0.113	0.051	2,07E-6	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	106.097	634.533	740.630	371.601	19.412	391.013