

Designation: ddrtxn03a-06 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

# Floor towards attic (uninhabitable) - ddrtxn03a-06

30

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

## Performance rating

Fire protection

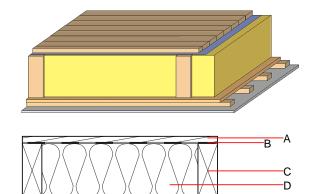
performance maximum span = 5 m; maximum load  $E_{d,fi}$  = 3,66 kN/m<sup>2</sup> Classified by HFA Thermal performance U  $0.21 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance  $R_w$  (C;C<sub>tr</sub>) 41(-3;-7) dB

REI

Mass per unit area  $54.00 \text{ kg/m}^2$ 

 $L_{n,w}$  ( $C_l$ )

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)

	Thickness	Building material	Thermal performance				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	sheep wool [0,041; R=16]	0.041	1	16	1.720	E	
Е	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

 $013_{Kon}$ 12.2

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		0.074	0.033	1,62E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	100.868	705.192	806.060	279.733	20.103	299.836