

Designation: ddrtxn04a-01 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

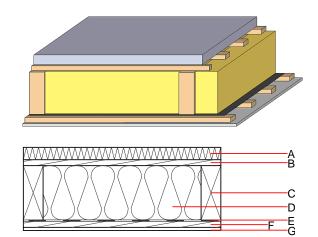
# Floor towards attic (uninhabitable) - ddrtxn04a-01

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  $0.20 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance  $R_w$  (C;C<sub>tr</sub>) 42(-1;-5) dB  $L_{n,w}$  ( $C_l$ ) Mass per unit area  $64.90 \text{ kg/m}^2$ 

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 pe	Reaction to fire			
			λ	μ min – max	ρ	С	EN
Α	50.0	Magnesite-bound lightweight wood wool board	0.120	2 - 5	700	1.400	
В	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
С	200.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
D	200.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
E		vapour barrier sd≥ 2m			1000		
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								
OI3 <sub>Kon</sub>	20.7							
Calculated by HFA								



Designation: ddrtxn04a-01 8/2/23 Holzforschung Austria Last updated:

Source:

Editor: HFA, SP

### 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		0.094	0.040	1,94E-6	0.018	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]