

Designation: ddrtxn05a-05 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

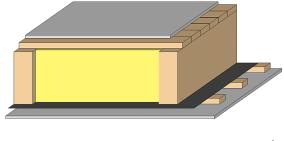
# Floor towards attic (uninhabitable) - ddrtxn05a-05

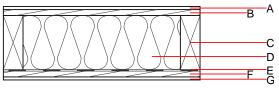
floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

### Performance rating

Calculation based on GF

Fire protection 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>) 47(-4;-9) dB  $L_{n,w}$  ( $C_{l}$ ) Assessed by TGM Mass per unit area  $59.70 \text{ kg/m}^2$ 





Note: e=625

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

	Thickness	Building material	Thermal pe	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	24.0	planking spruce wood	0.120	50	450	1.600	D
С	220.0	spruce wood floor joists (80/*); e=*	0.120	50	450	1.600	D
D	220.0	cellulose fibre [040; E]	0.040	1 - 2	55	2.000	E
E		vapour barrier sd≥ 6m			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 m²)

Database ecoinvent OI3<sub>Kon</sub> 10.7 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		0.073	0.031	1,39E-6	0.017	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	92.276	571.882	664.158	228.358	4.459	232.817