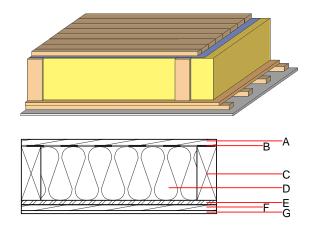
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### Floor towards attic (uninhabitable) - ddrtxn03a-02

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

Performance rating	I	
Fire protection performance	REI	30
maximum span = 5 m; ma Classified by HFA	ximum load E <sub>d,fi</sub> = 3,66 kN/	′m²
Thermal performance	U Diffusion	0.18 W/(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	42(-2;-6) dB
Mass per unit area	m	55.60 kg⁄m²
Calculation based on gyps	um 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	rformance			Reaction to fire
		λ	µ min – max	ρ	с	EN
24.0	planking spruce wood	0.120	50	450	1.600	D
	wind barrier			1000		
240.0	construction timber (80/; $e=*$ )	0.120	50	450	1.600	D
240.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
18.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
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>

Calculated by HFA

22.7

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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		0.120	0.054	2,17E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[LM]	[LM]	[MJ]	[LM]
			766.005	390.320	19.412	409.732

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.