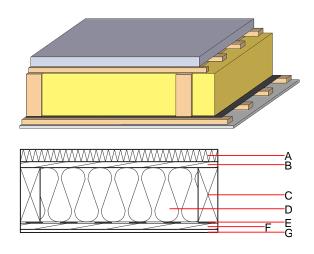
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Floor towards attic (uninhabitable) - ddrtxn04a-03

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

Performance rating		
Fire protection performance	REI	30
maximum span = 5 m; max Classified by HFA	timum load E <sub>d,fi</sub> = 3,66 kN∕	m <sup>2</sup>
Thermal performance	U Diffusion	0.17 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> )	43(-1;-5) dB
Mass per unit area	m	72.90 kg∕m <sup>2</sup>
Calculation based on gypsu	ım 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
	50.0	Magnesite-bound lightweight wood wool board	0.120	2 - 5	700	1.400	
	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
	220.0	construction timber (80/; $e=*$ )	0.120	50	450	1.600	D
)	220.0	mineral wool [035; 50; <1000 °C]	0.035	1	50	1.030	A1
		vapour barrier sd $\geq$ 2m			1000		
	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

46.1

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Designation: Last updated: Source: Editor: ddrtxn04a-03 8/2/23 Holzforschung Austria 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		0.193	0.085	3,64E-6	0.029	
	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle	FERE	1 21001				
Lifecycle (Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]

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.