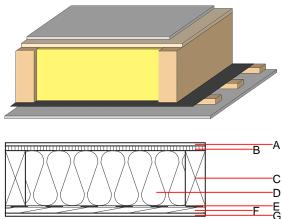
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Floor towards attic (uninhabitable) - ddrtxn02a-02

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

Performance rating	g		
Fire protection performance maximum span = 5 m; ma Classified by HFA	<b>REI</b> aximum load E <sub>d,fi</sub> = 3,	<b>30</b> ,66 kN∕m²	
Thermal performance	U Diffusion	0.19 W∕(m <sup>2</sup> K) suitable	
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>I</sub> )	47(-3;-8) dB	
Assessed by TGM			IXL
<b>Mass per unit area</b> Calculation based on GF	m	55.90 kg/m <sup>2</sup>	
			Note: e



Note: e=625

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

Thickness	Building material	Thermal per	rformance			Reaction to fire
		λ	µ min – max	ρ	с	EN
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
19.0	particleboard	0.130	50 - 100	700	1.700	D
240.0	spruce wood floor joists (80∕*); e=*	0.120	50	450	1.600	D
240.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
	vapour barrier sd≥ 8m			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

26.5

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Designation: Last updated: Source: Editor: ddrtxn02a-02 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		0.113	0.051	2,16E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[LM]	[MJ]	[LM]	[M]	[MJ]
(,			i	435.399	33.674	469.073

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.