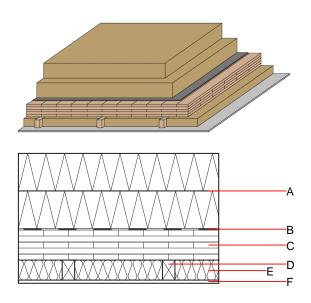
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Designation: Last updated: Source: Editor:

Floor towards attic (uninhabitable) - ddmxxi01a-01

floor towards attic (uninhabitable), solid wood construction, not suspended, dry, other surface

REI	60
imum load E <sub>d,fi</sub> = 0,6 kN∕n	1 <sup>2</sup>
U Diffusion	0.10 W∕(m <sup>2</sup> K) suitable
R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	44 dB
<b>m</b> Im plaster board type DF	126.50 kg/m <sup>2</sup>
	imum load $E_{d,fi} = 0,6 \text{ kN/n}$ U Diffusion $R_w (C;C_{tr})$ $L_{n,w} (C_i)$



ddmxxi01a-01

Holzforschung Austria

8/2/23

HFA, PLB

## 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
A	300.0	wood-fibre insulation board [0,045; R=160]	0.045	5 - 7	160	2.100	E
В		foil (air tight)					
С	125.0	cross laminated timber ≥ 125mm; 5-ply at least, surface layer at least 27,5	0.130	50	500	1.600	D
D	80.0	spruce wood battens (50/80; e=400)	0.120	50	450	1.600	D
E	80.0	Wood fibre insulation [039; 45]	0.039	1 - 2	45	2.100	E
F	19.0	3-ply solid wood panel	0.110	50	400	2.500	D

## Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

75.0

Calculated with gypsum plaster fire protection board (GKF/DF); this data includes 3-, 5-, and 7-ply cross laminated timber elements; Calculated by HFA

Note: A: pressure-resistant

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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		0.362	0.159	6,74E-6	0.081	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
						<b>CA 4 13</b>
(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.