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Designation: Last updated: Source: Editor:

Floor towards attic (uninhabitable) - ddrxxa01a-01

floor towards attic (uninhabitable), timber frame construction, suspended, dry, other surface

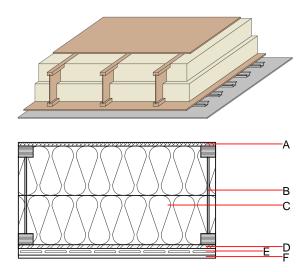
Performance rating

Fire protection performance	REI	60
maximum span = 5 m; Classified by HFA	maximum load E _{d,fi} = 3,	5 kN∕m²
Thermal performance	U Diffusion	0.10 W∕(m ² K) suitable
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The stated thermal characteristics in the product data sheet are specified for the hard board intermediate web; the flanges are calculated with solid wood. Calculated by HFA

Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	39 dB
Assessed by HFA		
Mass per unit area	m	52.90 kg/m ²

Calculation based on gypsum plaster board type DF



ddrxxa01a-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 performance			Reaction to fire	
			λ	µ min – max	ρ	с	EN
٩	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
В	400.0	Light composite wood-based beams (I-beams) with solid wood flanges ($60/45$) and hard board intermediate web ($\geq 6,7$)	0.400	20 - 30	800	1.700	D
:	400.0	Wood fibre insulation [039; 45]	0.039	1 - 2	45	2.100	E
)	15.0	OSB	0.130	200	600	1.700	D
	27.0	metal rail					
	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	15.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Calculated using gypsum plaster board type DF

Database ecoinvent

Calculated by HFA

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31.5

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.

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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.137	0.063	2,53E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[LM]	[MJ]	[M]
A1 - A3	94.737	732.517	827.254	528.326	60.560	588.885