Floor towards attic (uninhabitable) - ddrxxa01a-00

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

Performance rating

Fire protection performance	REI	60

maximum span = 5 m; maximum load $E_{d,fi}$ = 3,5 kN/m²
Classified by HFA

|		
Thermal performance	U	0.10 W/(m²K)
	Diffusion	suitable

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})	39 dB
	$L_{n,w}$ (C_I)	

Assessed by HFA

Mass per unit area	m	54.80 kg/m²

Calculation based on gypsum plaster board type DF
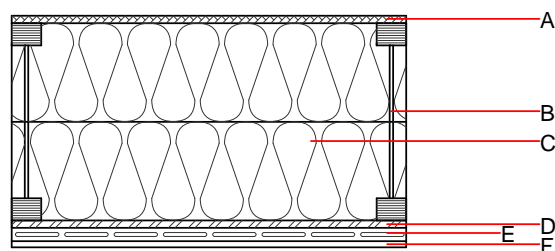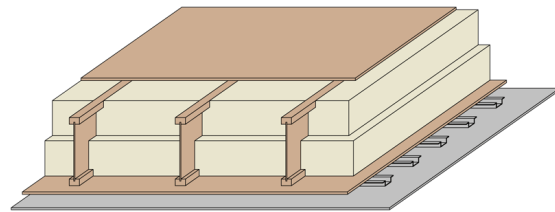
Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal performance				Reaction to fire
			λ	μ min − max	ρ	c	EN
A	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
B	400.0	Light composite wood-based beams (I-beams) with solid wood flanges (60/45) and hard board intermediate web (≥ 6,7)	0.400	20 - 30	800	1.700	D
C	400.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
D	15.0	OSB	0.130	200	600	1.700	D
E	27.0	metal rail					
F	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
F	15.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3$_{Kon}$	26.7

Calculated using gypsum plaster board type DF
Calculated by HFA

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 (Phases)	GWP [kg CO_2-e.]	AP [kg SO_2-e.]	EP [kg PO_4-e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.133	0.058	2,03E-6	0.017	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	78.736	607.431	686.167	399.585	30.435	430.020

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