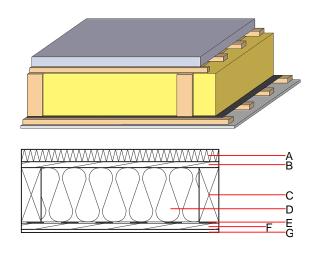
dataholz.eu

Designation: Last updated: Source: Editor:

Floor towards attic (uninhabitable) - ddrtxn04a-00

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	imum load $E_{d,fi}$ = 3,66 kN/	m²
Thermal performance	U Diffusion	0.18 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R_w (C;C _{tr}) L _{n,w} (C _l)	43(-2;-6) dB
Mass per unit area	m	66.40 kg∕m²
Calculation based on gypsu	m plaster board type DF	



ddrtxn04a-00

Holzforschung Austria

8/2/23

HFA, SP

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	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 [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
	vapour barrier sd≥ 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 m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

22.0

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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		0.101	0.043	2,04E-6	0.019	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[LM]	[LM]	[LM]	[MJ]	[M]
A1 - A3	77.915	447,344	525.259	354.735	4.459	359,194

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.