# dataholz.eu

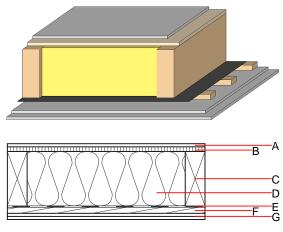
Designation: Last updated: Source: Editor:

ddrtxn02b-00 8/2/23 Holzforschung Austria HFA, SP

### Floor towards attic (uninhabitable) - ddrtxn02b-00

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

Performance rating						
Fire protection performance	REI	60				
maximum span = 5 m; ma Classified by HFA	iximum load E <sub>d,fi</sub> = 3,	66 kN∕m²				
Thermal performance	U Diffusion	0.20 W∕(m <sup>2</sup> K) suitable				
Calculated by HFA						
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	48(-4;-9) dB				
Assessed by TGM						
Mass per unit area	m	64.30 kg/m <sup>2</sup>				
Calculation based on GF						



Note: e=625

### 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	
4	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
4	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	
3	19.0	particleboard	0.130	50 - 100	700	1.700	D	
2	220.0	spruce wood floor joists (80/*); e=*	0.120	50	450	1.600	D	
C	220.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
1		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	
5	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
5	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2	

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

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

27.5

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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		0.112	0.050	2,33E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[LM]	[LM]	[M]	[MJ]
	67.857	473.735	541.592	455.000	33.674	488.675

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.