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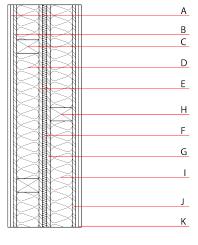
twrxx02b-00 8/2/23 Holzforschung Austria HFA, SP

Compartment wall - twrxxo02b-00

compartment wall, timber frame construction, without dry lining, double-layer, other surface

Performance rating

Fire protection performance	REI	90
	I-bearing walls; for the overa 3 m; maximum load E _{d,fi} = 1	
Thermal performance	U Diffusion	0.17 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	62(-2;-10) dB
frequency range 50-3500: Assessed by HFA	C ₅₀₋₃₅₀₀ -9 dB; C _{tr 50-3500} -22	2 dB
Mass per unit area	m	95.10 kg/m ²



Note: C/H: staggered

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
ł	25.0	gypsum plaster board type DF (2x12,5) or	0.250	10	800	1.050	A2
٩	25.0	gypsum fibre board (2x12,5)	0.320	21	1000	1.100	A2
3	15.0	OSB	0.130	200	600	1.700	D
5	100.0	construction timber ($60/; e=625$)	0.120	50	450	1.600	D
D	100.0	mineral wool [040; 30; ≥1000 °C]	0.040	1	30	1.030	A1
:	15.0	OSB	0.130	200	600	1.700	D
-	20.0	impact sound absorbing subflooring MW [100; s' = 14 MN/m^3]	0.035	1	100	1.030	A2
Ĵ	15.0	OSB	0.130	200	600	1.700	D
4	100.0	construction timber ($60/; e=625$)	0.120	50	450	1.600	D
	100.0	mineral wool [040; 30; ≥1000 °C]	0.040	1	30	1.030	A1
1	15.0	OSB	0.130	200	600	1.700	D
<	25.0	gypsum plaster board type DF (2x12,5) or	0.250	10	800	1.050	A2
<	25.0	gypsum fibre board (2x12,5)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

43.4

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Designation: Last updated: Source: Editor: twrxxo02b-00 8/2/23 Holzforschung Austria HFA, SP

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		0.202	0.070	3,16E-6	0.062	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
			10.413	[MJ]	[14]	[MJ]
(Phases)	[MJ]	[MJ]	[MJ]	נרואו]	[MJ]	[[[1]]]

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.