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Designation: Last updated: Source: Editor: twrxx007b-04 8/2/23 Holzforschung Austria HFA, SP

Compartment wall - twrxxo07b-04

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

Performance rating

Fire protection performance	REI	90	
apply to each individual l height = 3 m; maximum l Classified by HFA	5 ,	ole wall: EI90; maximum ceiling	
Thermal performance	U Diffusion	0.19 W∕(m ² K) suitable	
Calculated by HFA			
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	60(-3;-10) dB	
Assessed by MA39			
Mass per unit area	m	111.80 kg⁄m²	
Calculation based on gyp	sum plaster board type D	F	

A B C D E E F G G H H L L K

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	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2
	15.0	OSB	0.130	200	600	1.700	D
	100.0	construction timber (60/100; $e=*$)	0.120	50	450	1.600	D
,	100.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
	15.0	OSB	0.130	200	600	1.700	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
	20.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
1	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
1	12.5	gypsum fibre board	0.320	21	1000	1.100	A2
	15.0	OSB	0.130	200	600	1.700	D
	100.0	construction timber (60/100; $e=*$)	0.120	50	450	1.600	D
	100.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
	15.0	OSB	0.130	200	600	1.700	D
1	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
1	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

33.2

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	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		0.136	0.058	3,60E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	EN A 13	[MJ]	[M]	[MJ]	[MJ]	[M]
(Phases)	[MJ]	[[[1]]]	[1413]			

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