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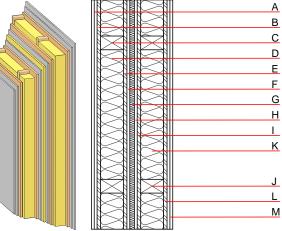
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Compartment wall - twrxxo07b-03

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

Performance rating

Fire protection performance	REI	90
apply to each individual I height = 3 m; maximum I Classified by HFA	5	whole wall: EI90; maximum ceiling 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 _I)	60(-3;-10) dB
Assessed by MA39		
Mass per unit area	m	122.50 kg⁄m ²
Calculation based on gyp	sum plaster board typ	e DF



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
4	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
۹.	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2
3	15.0	OSB	0.130	200	600	1.700	D
2	100.0	construction timber (60/100; $e=*$)	0.120	50	450	1.600	D
2	100.0	cellulose fibre [0,040; R=55]	0.040	1 - 2	55	2.000	В
	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
5	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	cellulose fibre [0,040; R=55]	0.040	1 - 2	55	2.000	В
-	15.0	OSB	0.130	200	600	1.700	D
N	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
N	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

33.9

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		0.194	0.083	4,14E-6	0.048	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[LM]	[LM]	[MJ]	[LM]
(Filases)						

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