

Designation: twrxxo07a-00 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

Compartment wall - twrxxo07a-00

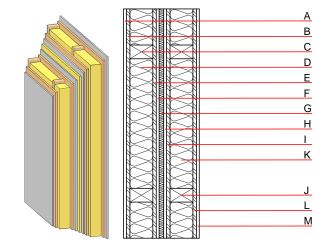
compartment wall, timber frame construction, without dry lining, double-layer, other surface

Performance rating

Fire protection REI 60 performance apply to each individual load-bearing wall; the whole wall: E190; maximum ceiling height = 3 m; maximum load E_{d.fi} = 19,2 kN/m Classified by MA39 Classified by HFA

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 _I)	59(-3;-10) dB
Assessed by MA39		
Mass per unit area	m	91.80 kg/m²

Calculation based on gypsum plaster board type 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 performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN	
Α	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
Α	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	
В	15.0	OSB	0.130	200	600	1.700	D	
С	100.0	construction timber (60/100; e=*)	0.120	50	450	1.600	D	
D	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
Е	15.0	OSB	0.130	200	600	1.700	D	
F	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
F	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	
G	20.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
Н	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
Н	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	
ī	15.0	OSB	0.130	200	600	1.700	D	
J	100.0	construction timber (60/100; e=*)	0.120	50	450	1.600	D	
K	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
L	15.0	OSB	0.130	200	600	1.700	D	
М	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
М	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent OI3_{Kon} 37.3 Calculated by HFA



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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		0.163	0.070	3,47E-6	0.029	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	158.043	743.284	901.326	615.971	43.364	659.335