

Designation: twrxxo07a-05 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

Compartment wall - twrxxo07a-05

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

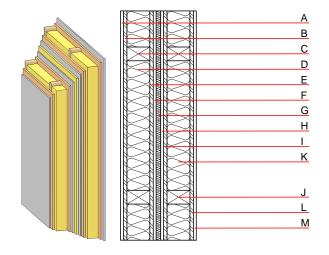
Performance rating

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	0.19 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	59(-3;-10) dB
Assessed by MA39		
Mass per unit area	m	97.00 kg/m²

Calculation based on gypsum plaster board type DF



Note: e=400

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
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
E	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
I	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} 36.8 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		0.166	0.071	3,51E-6	0.032	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]