

Designation: twrxxo03b-00 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

Compartment wall - twrxxo03b-00

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

Performance rating

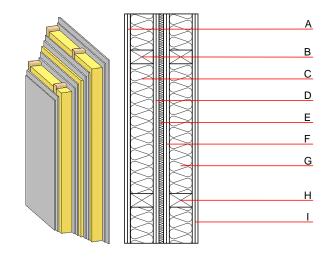
Fire protection REI performance

apply to each individual load-bearing wall; the whole wall: EI90; maximum ceiling height = 3 m; maximum load $E_{d.fi}$ = 50,0 kN/m

Classified by MA39 Classified by HFA

Thermal performance U $0.19 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 59(-2;-10) dB $L_{n,w}$ (C_l) Assessed by MA39 Mass per unit area 92.80 kg/m^2

Calculation based on gypsum plaster board type DF



Note: layer A, D, F, I: planking: 2x12,5mm; e=625

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
Α	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
Α	25.0	gypsum fibre board	0.320	21	1000	1.100	A2
В	100.0	construction timber (60/100; e=*)	0.120	50	450	1.600	D
С	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
D	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
D	25.0	gypsum fibre board	0.320	21	1000	1.100	A2
E	20.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
F	25.0	gypsum fibre board	0.320	21	1000	1.100	A2
G	100.0	construction timber (60/100; e=*)	0.120	50	450	1.600	D
Н	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
1	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
1	25.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 33.2

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		0.108	0.051	3,29E-6	0.016	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	51.976	157.229	209.205	504.581	0.000	504.581