

Designation: awropo22a-03 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

External wall - awropo22a-03

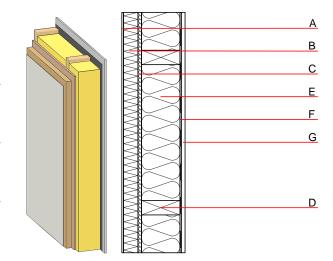
external wall, timber frame construction, not ventilated, without dry lining, with rendering, other surface

Performance rating

Fire protection **REI** from inside **REI** from outside 60 performance maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

Thermal performance	U Diffusion	0.15 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	52(-3;-9) dB
Assessed by MA39		
Mass per unit area	m	68.00 kg/m²

Calculation based on GF



Note: 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	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	Е
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	240.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
E	240.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F		vapour barrier sd≥ 3m			1000		
G	15.0	gypsum fibre board or	0.320	21	1000	1.100	A2
G	15.0	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 38.3

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		0.160	0.072	2,99E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	81.687	512.935	594.623	555.949	39.775	595.724