

Designation: awropo03b-05 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

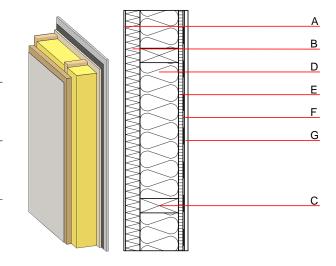
External wall - awropo03b-05

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

Performance rating

Thermal performance	U Diffusion	0.20 W/(m ² K) suitable		
Calculated by HFA				
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	49(-2;-7) dB		
Assessed by MA39				
Mass per unit area	m	69.40 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 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	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
D	160.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
E	19.0	particleboard	0.130	50 - 100	700	1.700	D
F		vapour barrier sd≥ 2m			1000		
G	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
G	15.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent
Ol3_{Kon} 42.9

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		0.181	0.068	2,70E-6	0.050	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3		565.788	632.461	592.421	57.446	649.866