

Designation: awropo09b-06 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

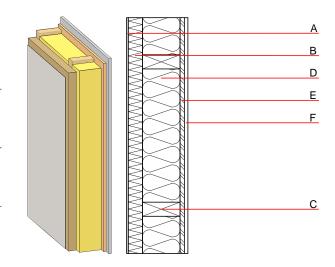
External wall - awropo09b-06

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 _l)	49(-2;-7) dB
Assessed by MA39		
Mass per unit area	m	63.50 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	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	cellulose fibre [040; E]	0.040	1 - 2	55	2.000	E
E	18.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
F	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
F	15.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 30.3

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		0.138	0.060	2,69E-6	0.020	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	98.890	628.702	727.593	475.076	36.781	511.857