

Designation: awropi24a-01 Last updated: 8/2/23

Source: Holzforschung Austria

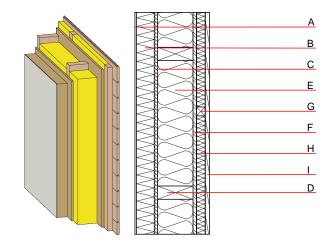
Editor: HFA, PLB

External wall - awropi24a-01

external wall, timber frame construction, not ventilated, with dry lining, with rendering, wooden surface

Performance rating

Thermal performance	U Diffusion	0.12 W/(m ² K) suitable		
Calculated by HFA				
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	51(-3;-10) dB		
Assessed by TGM				
Mass per unit area	m	70.00 kg/m²		



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	80.0	WF-PT [042; 180]	0.042	3 - 7	180	2.100	E
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	200.0	mineral wool [0,35; ≥20; <1000^C]	0.035	1	20	1.030	A1
F	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
G	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
Н	40.0	mineral wool [0,35; ≥20; <1000^C]	0.035	1	20	1.030	A1
1	19.0	planking tongue and groove	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent

Ol3_{Kon} 46.3

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		0.213	0.095	3,67E-6	0.033	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]