

Designation: awropi25a-05 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, PLB

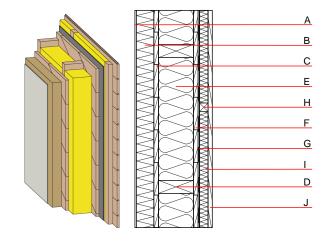
External wall - awropi25a-05

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

Performance rating

Fire protection **REI** from inside performance **REI from outside** 90 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

Thermal performance	U Diffusion	0.13 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	78.30 kg/m²



Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal per	Thermal performance			
			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	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
D	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	200.0	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	E
F	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
G		vapour barrier sd≥ 6m			1000		
Н	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
I	40.0	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	E
J	19.0	planking tongue and groove	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent 27.2 013_{Kon} 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		0.154	0.069	2,85E-6	0.033	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	166.696	1127.207	1293.903	532.763	44.017	576.780