

Designation: awropi25a-01 Last updated: 8/2/23

Source: Holzforschung Austria

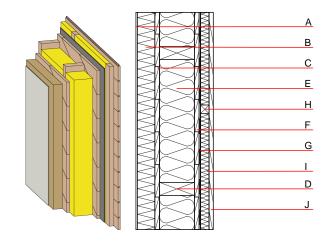
Editor: HFA, PLB

# External wall - awropi25a-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 <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	51(-3;-10) dB
Assessed by TGM		
Mass per unit area	m	71.30 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	
A	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	mineral wool [0,35; ≥20; <1000^C]	0.035	1	20	1.030	A1	
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	mineral wool [0,35; ≥20; <1000^C]	0.035	1	20	1.030	A1	
J	19.0	planking tongue and groove	0.120	50	450	1.600	D	

## Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

Ol3<sub>Kon</sub> 38.7

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### Details of sustainability rating

#### Database ecoinvent

	ii.	1	1	1	1	1
Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.195	0.088	3,48E-6	0.037	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	157.653	950.247	1107.900	626.973	27.301	654.274