

Designation: awropi25a-03 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, PLB

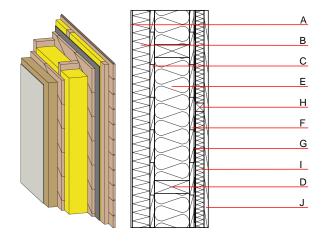
# External wall - awropi25a-03

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 <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>I</sub> )	51(-3;-9) dB
Assessed by TGM		
Mass per unit area	m	78.30 kg/m <sup>2</sup>



### 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	Cellulose fibre [040; 50]	0.040	1	50	2.000	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	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
J	19.0	planking tongue and groove	0.120	50	450	1.600	D

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

Database ecoinvent				
OI3 <sub>Kon</sub>	25.3			
Calculated by HFA				



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### Details of sustainability rating

#### Database ecoinvent

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		0.156	0.068	2,63E-6	0.031	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]