

Designation: awropi25a-07 Last updated: 8/2/23

Source: Holzforschung Austria

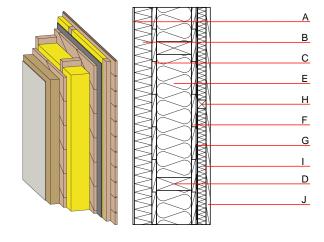
Editor: HFA, PLB

# External wall - awropi25a-07

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

#### Performance rating

Thermal performance	U Diffusion	0.14 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> )	50(-3;-10) dB
Assessed by TGM		
Mass per unit area	m	71.70 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	160.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	160.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	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 [038; ≥33; ≥1000°C]	0.038	1	33	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>	36.8						
Calculated by HFA							



Designation: awropi25a-07 8/2/23 Holzforschung Austria Last updated:

Source:

HFA, PLB Editor:

### 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		0.200	0.073	2,60E-6	0.064	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	146.758	918.801	1065.559	536.936	27.301	564.237