

Designation: awropi24a-05 Last updated: 8/2/23

Source: Holzforschung Austria

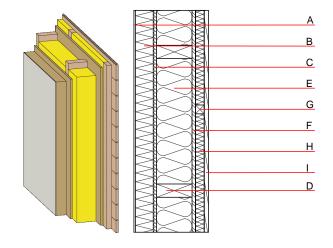
Editor: HFA, PLB

# External wall - awropi24a-05

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

#### Performance rating

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>l</sub> )	51(-3;-10) dB
Assessed by TGM		
Mass per unit area	m	77.00 kg/m²



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

	Thickness	Building material	Thermal pe	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
Е	200.0	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	E
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	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	E
1	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> 34.9

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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		0.172	0.076	3,05E-6	0.030	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	154.110	1060.541	1214.651	609.269	68.449	677.718