

Designation: awropi18b-10 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awropi18b-10

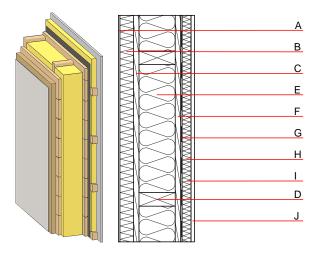
external wall, timber frame construction, not ventilated, with dry lining, with rendering, other surface

Performance rating

Thermal performance	U Diffusion	0.18 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	52(-2;-9) dB
Vertical battens for the dr Bw(C:Ctr)=49(-1:-7) dB	y lining screwed onto	the ledger beams lead to an

Rw(C;Ctr)=49(-1;-7) dB Assessed by MA39

Calculation based on gypsum plaster board type DF



Note: e=625

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

	Thickness	Building material	Thermal pe	Thermal performance			
			λ	μ min – max	ρ	С	EN
Α	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	24.0	planking spruce wood	0.120	50	450	1.600	D
D	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
Е	160.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
F	24.0	planking spruce wood	0.120	50	450	1.600	D
G		vapour barrier sd≥ 7m			1000		
Н	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
I	40.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
J	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
J	15.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 28.0

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		0.133	0.059	3,02E-6	0.028	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	122.245	895.394	1017.639	513.314	31.130	544.444