

Designation: awropi02b-02 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

External wall - awropi02b-02

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

Performance rating

Fire protection **REI** from inside 60 performance REI from outside 60 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 50,0 kN/m Classified by HFA

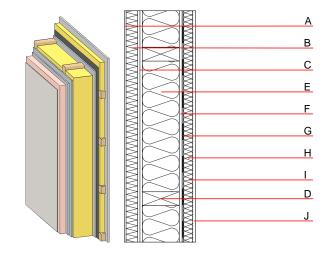
Thermal performance	U Diffusion	0.19 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	46(-2;-5) dB
Vertical battens for the dr	y lining screwed onto	the ledger beams lead to an

Assessed by MA39

Mass per unit area 62.80 kg/m^2

Calculation based on GF

Calculated by HFA



Note: e=625; I=without insulation

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	4.0	plaster	1.000	10 - 35	2000	1.130	A1
В	50.0	Polystyrene EPS-F [0,040]	0.040	20 - 50	17	1.450	Е
С	25.0	gypsum fibre board (2x10 mm)	0.320	21	1000	1.100	A2
D	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
E	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F	12.5	gypsum fibre board	0.320	21	1000	1.100	A2
G		vapour barrier sd≥ 13m			1000		
Н	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
I		air layer	0.000	1	1	1.008	
J	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
J	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²) Database ecoinvent OI3_{Kon} 28.2



Designation: awropi02b-02 8/2/23 Holzforschung Austria Last updated:

Source:

Editor: HFA, SP

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		0.097	0.041	2,31E-6	0.020	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	45.075	166.728	211.803	393.905	36.048	429.953