

Designation: awropi15b-13 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

External wall - awropi15b-13

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

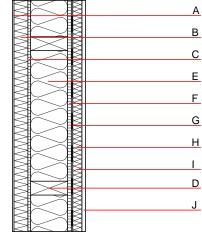
Performance rating

REI from inside 60 Fire protection performance RFI from outside 90 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

Thermal performance	U Diffusion	0.15 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n.w} (C _l)	53(-2;-9) dB

Assessed by MA39

Mass per unit area 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)

 86.20 kg/m^2

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	100.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	12.0	particleboard P5	0.130	50 - 100	700	1.700	D
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	16.0	particleboard P4	0.130	50 - 100	700	1.700	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	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
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} 52.0

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		0.210	0.094	4,00E-6	0.035	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]