

Designation: awropo22b-00 Last updated: 8/2/23

Source: Holzforschung Austria

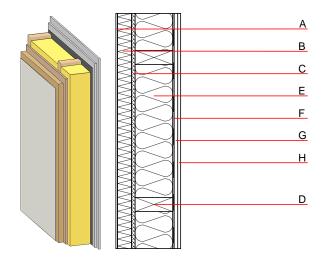
Editor: HFA, SP

External wall - awropo22b-00

external wall, timber frame construction, not ventilated, without dry lining, with rendering, other surface

Performance rating

Thermal performance	U Diffusion	0.20 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	51(-2;-8) dB
Assessed by MA39		
Mass per unit area	m	73.00 kg/m ²
Calculation based on GF		



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

	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	60.0	wood-fibre insulation board [055; 200]	0.055	5 - 7	200	2.100	Е
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	160.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F		vapour barrier sd≥ 3m			1000		
G	15.0	gypsum fibre board	0.320	21	1000	1.100	A2
Н	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
Н	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 39.3

Calculated by HFA



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Details of sustainability rating

Database ecoinvent

	1	1	1			4
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		0.161	0.068	3,17E-6	0.020	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	121.775	450.044	571.819	565.850	39.775	605.624