

Designation: awmopo01a-00 Last updated: 8/2/23

Source: Holzforschung Austria

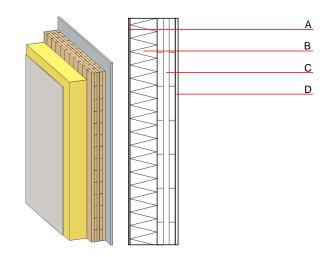
Editor: HFA, SP

External wall - awmopo01a-00

external wall, solid wood construction, not ventilated, without dry lining, with rendering, wooden surface

Performance rating

Thermal performance	U Diffusion	0.26 W/(m ² K) suitable
Calculated by HFA Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	38(-1;-4) dB
Assessed by TU-GRAZ		
Mass per unit area	m	81.60 kg/m²



Note: Cross laminated timber:

Variation 00-03: d \geq 78,0; at least 3-layers, top layer at least 25 mm; variation 04-07: at least 3-layers, top layer at least 30 mm

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	120.0	mineral wool MW-PT [040; 155]	0.040	1	155	1.030	A1
С	80.0	solid glued wood (e.g. cross laminated timber)	0.130	50	500	1.600	D
D	12.5	gypsum plaster board type DF / gypsum fibre board	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

0l3_{Kon} 67.7

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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		0.320	0.101	3,39E-6	0.121	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	39.449	533.520	572,969	753.574	13.934	767.509