

Designation: awmopo01a-03 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

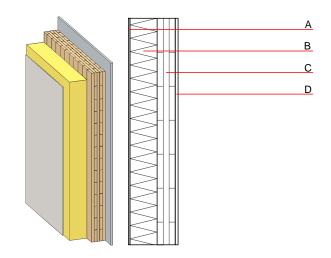
# External wall - awmopo01 a-03

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

#### Performance rating

Fire protection **REI** from inside **REI** from outside 90 performance maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 35,0 kN/m Classified by HFA

Thermal performance	U Diffusion	0.35 W/(m <sup>2</sup> K) suitable
Calculated by HFA Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	49(-3;-8) dB
Assessed by TU-GRAZ		
Mass per unit area	m	106.00 kg/m²



Note: Cross laminated timber:

Variation 00-03:  $d \ge 78.0$ ; 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	15.0	plaster	1.000	10 - 35	2000	1.130	A1
В	100.0	multilayer wood wool composite claddingboard (WW-MW-WW)	0.047	2 - 3	200	1.000	В
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 m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub> 62.2

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### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.288	0.098	3,66E-6	0.097	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]