

Designation: awropo17b-06 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

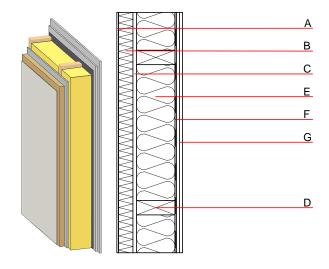
# External wall - awropo17b-06

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

#### Performance rating

Thermal performance	U Diffusion	0.21 W/(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	51(-2;-8) dB
Assessed by MA39		
Mass per unit area	m	79.70 kg/m²

Calculation based on GF



Note: e=625

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

	Thickness	Building material	Thermal per	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 WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	15.0	gypsum fibre board	0.320	21	1000	1.100	A2
D	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
Е	160.0	cellulose fibre [040; E]	0.040	1 - 2	55	2.000	E
F		vapour barrier sd≥ 3m			1000		
G	25.0	gypsum fibre board (2x12,5 mm) or	0.320	21	1000	1.100	A2
G	25.0	gypsum plaster board type DF (2x12,5 mm)	0.250	10	800	1.050	A2

## Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

**Ol3**<sub>Kon</sub> 32.5

Calculated by HFA



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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		0.134	0.055	2,97E-6	0.016	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	113.673	384.004	497.677	476.099	21.724	497.824