

Designation: awropo17a-07 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

# External wall - awropo 17a-07

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

#### Performance rating

Thermal performance  Calculated by HFA	U Diffusion	0.22 W/(m <sup>2</sup> K) suitable
curculated by 11171		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	51(-3;-9) dB
Assessed by MA39		
Mass per unit area	m	$64.00 \text{ kg/m}^2$
Calculation based on GF		

B C C E F G G

Note: e=625

## 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 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	sheep wool [0,041; R=26]	0.041	1	30	1.720	Е
F		vapour barrier sd≥ 3m			1000		
G	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
G	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2

# Sustainability rating (per m²)

Database ecoinvent

**OI3**<sub>Kon</sub> 30.5

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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		0.117	0.049	2,89E-6	0.017	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	105.608	391.698	497.306	462.294	22.592	484.886