

Designation: awropo16a-02 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

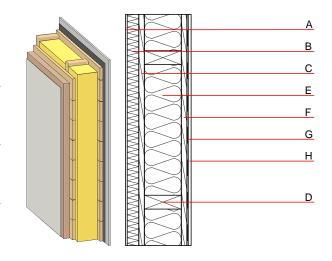
# External wall - awropo16a-02

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

### Performance rating

Thermal performance	U Diffusion	0.19 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> )	52(-3;-8) dB
Assessed by MA39		
Mass per unit area	m	70.40 kg/m²

Calculation based on gypsum plaster board type DF



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	formance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	10.0	plaster	1.000	10 - 35	2000	1.130	A1
В	50.0	wood wool composite boards	0.090	2 - 5	370	2.000	В
С	24.0	planking spruce wood	0.120	50	450	1.600	D
D	200.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
Е	200.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F	24.0	planking spruce wood	0.120	50	450	1.600	D
G		vapour barrier sd≥ 7m			1000		
Н	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
Н	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

# Sustainability rating (per m²) Database ecoinvent OI3<sub>Kon</sub> 23.0 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		0.118	0.050	2,35E-6	0.024	
	'					
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	108.888	650.345	759.233	400.017	4.764	404.782