

Designation: awropo11a-08 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

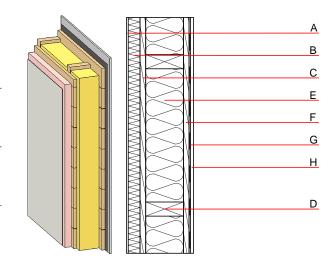
# External wall - awropo 11 a-08

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

#### Performance rating

Thermal performance	U Diffusion	0.20 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> )	44(-2;-6) dB
Assessed by MA39		
Mass per unit area	m	57.00 kg/m²

Calculation based on gypsum plaster board type DF



Note: e=400

## 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	4.0	plaster	1.000	10 - 35	2000	1.130	A1
В	50.0	Polystyrene EPS-F [0,040]	0.040	20 - 50	17	1.450	Е
С	25.0	planking spruce wood	0.120	50	450	1.600	D
D	160.0	construction timber (60/160; e=*)	0.120	50	450	1.600	D
E	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F	25.0	planking spruce wood	0.120	50	450	1.600	D
G		vapour barrier sd≥ 16m			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 m<sup>2</sup>)

Database ecoinvent

Ol3<sub>Kon</sub> 20.2

Calculated by HFA



Designation: awropo11a-08 8/2/23 Holzforschung Austria Last updated:

Source:

Editor: HFA, SP

### Details of sustainability rating

#### Database ecoinvent

	1	1	i i	i i	1	1
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		0.104	0.043	1,84E-6	0.029	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	106.946	605.986	712.932	343.208	36.048	379.256