

Designation: awropo13a-02 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

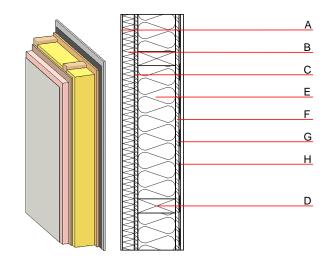
External wall - awropo13a-02

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

Performance rating

Thermal performance	U Diffusion	0.17 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	45(-2;-6) dB
Assessed by MA39		
Mass per unit area	m	49.10 kg/m ²

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 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	E
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	200.0	construction timber (60/160; e=*)	0.120	50	450	1.600	D
E	200.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F	15.0	OSB	0.130	200	600	1.700	D
G		vapour barrier sd≥ 9m			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_{Kon} 31.4

Calculated by HFA

ecological drivers for timber construction released by accredited testing institutes.



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Details of sustainability rating

Database ecoinvent

	0	4	1	1	1	1
Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.130	0.054	2,17E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	81.767	450.879	532.646	445.810	64.940	510.750