

Designation: awropi06a-14 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awropi06a-14

external wall, timber frame construction, not ventilated, with dry lining, with rendering, other surface

Performance rating

Classified by HFA

Thermal performance U $0.12 \text{ W}/\text{(m}^2\text{K)}$ Diffusion suitable

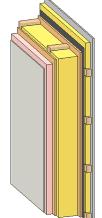
Proof of water vapor diffusion was provided for a structurally permanently secured airtightness of the component in accordance with ÖNORM B 8110-2 (2020) Tab.3 (C=0 m 3 /(s*PA b)).

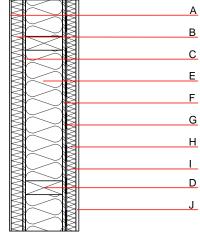
Calculated by HFA

 $L_{n,w}\left(C_{l}\right)$

frequency range 50-3500: C $_{50\text{-}3500}$ -11 dB; C $_{tr\,50\text{-}3500}$ -23 dB Assessed by MA39/HFA

Mass per unit area m





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

 54.00 kg/m^2

	Thickness	Building material	Thermal performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN	
Α	4.0	plaster	1.000	10 - 35	2000	1.130	A1	
В	100.0		0.031	20 - 50	16	1.450	E	
С	15.0	OSB	0.130	200	600	1.700	D	
D	200.0	construction timber (60/; e=625) (60/; e=*)	0.120	50	450	1.600	D	
E	200.0	mineral wool [040; 30; ≥1000°C]	0.040	1	30	1.030	A1	
F	15.0	OSB	0.130	200	600	1.700	D	
G		vapour barrier sd≥ 50m			1000			
Н	30.0	resilient channel a=625 vertical cross battens (a=400) or battens offset)						
I	30.0	mineral wool [035; 20; ≥1000°C] or air layer in type 02	0.035	1	20	1.030	A1	
J	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
J	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Database ecoinvent OI3 Kon Calculated by HFA



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Details of sustainability rating

Database ecoinvent

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		0.179	0.058	2,17E-6	0.063	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	101.752	474.675	576.427	515.752	90.821	606.574