

Designation: awropi05a-06 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awropi05a-06

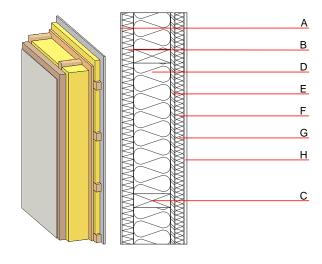
external wall, timber frame construction, not ventilated, with dry lining, with rendering, other surface

Performance rating

Thermal performance Calculated by HFA	U Diffusion	0.13 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	54(-3;-10) dB

vertical battens for the dry lining screwed onto the structural timber lead to an Rw(C;Ctr)=52(-3;-10) dB Assessed by MA39

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	hickness Building material Thermal performance					
			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	240.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
D	240.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
E	18.0	OSB	0.130	200	600	1.700	D
F	80.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
G	80.0	mineral wool [040; ≥16; <1000°C] or air layer in type 02	0.040	1	16	1.030	A1
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

Ol3_{Kon} 34.9

Calculated by HFA



Designation: awropi05a-06 Last updated:

8/2/23 Holzforschung Austria Source:

HFA, SP Editor:

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		0.154	0.066	3,01E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	105.806	546.425	652.232	523.370	13.314	536.684