

Designation: awropi04b-09 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awropi04b-09

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

Performance rating

0.17 W/(m ² K) suitable	
dB	
dB lead to	

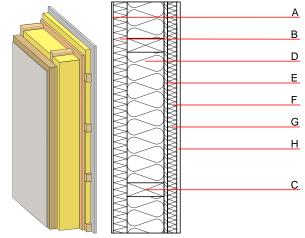
Vertical battens for the dry lining screwed onto the ledger beams lead to an Rw(C;Ctr)=50(-1;-7) dB

Assessed by MA39

Mass per unit area m

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)

 68.00 kg/m^2

	Thickness	Building material	Thermal pe	Reaction to fire			
			λ	μ min – max	ρ	С	EN
Α	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
D	160.0	cellulose fibre [040; E]	0.040	1 - 2	55	2.000	Е
Е	18.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
F	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
G	40.0	cellulose fibre [040; E] or air layer in type 02	0.040	1 - 2	55	2.000	Е
Н	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
Н	15.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent
Ol3_{Kon} 31.3

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		0.146	0.063	2,80E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	107.075	689.271	796.346	494.044	36.781	530.825