

Designation: awropi11a-08 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awropi11a-08

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

Performance rating

0.19 W/(m ² K) suitable										
Calculated by HFA										
-3;-8) dB										
(

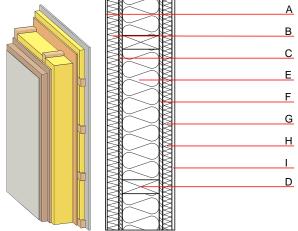
Vertical battens for the dry lining screwed onto the ledger beams lead to an Rw(C;Ctr)=49(-1;-5) dB

Assessed by MA39

Mass per unit area m

Calculation based on gypsum plaster board type DF

68.70 kg/m²
Note: e=625



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

	Thickness	Building material	Thermal performance				Reaction to fire
			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	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
Ε	160.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
F	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
G	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
Н	40.0	mineral wool [038; ≥33; ≥1000°C] or air layer in type 02	0.038	1	33	1.030	A1
I	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
1	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent
OI3_{Kon} 36.2

Calculated by HFA



Designation: awropi11a-08 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		0.170	0.057	2,18E-6	0.051	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	90.694	560,422	651.116	475.706	29.196	504.903