

Designation: awropo07a-10 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awropo07a-10

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

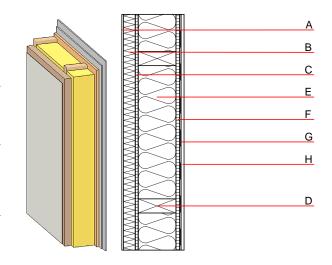
Performance rating

Classified by HFA

Mass per unit area

Thermal performance	U Diffusion	0.20 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	47(-2;-6) dB
EPS-F with a dynamic stiff Assessed by MA39	fness of $s' = 20MN/m^3$.	

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)

47.30 kg/m²

	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	50.0	Elasticized polystyrene FS	0.040	20 - 50	17	1.450	E	
С	16.0	particleboard	0.130	50 - 100	700	1.700	D	
D	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D	
E	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
F	16.0	particleboard	0.130	50 - 100	700	1.700	D	
G		vapour barrier sd≥ 17m			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

Ol3_{Kon} 29.7

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		0.117	0.047	2,07E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M1]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	70.893	424.125	495.018	435.759	70.225	505.984