

Designation: awropo11a-05 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

External wall - awropo 11 a-05

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

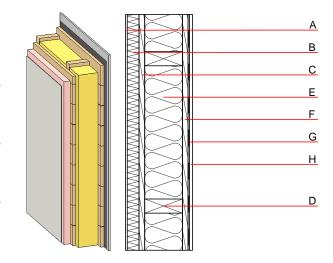
Performance rating

Mass per unit area

Fire protection **REI** from inside 30 performance **REI** from outside maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

Thermal performance	U Diffusion	$0.19 \text{ W/(m}^2\text{K)}$ suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	44(-2;-6) 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)

55.20 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	Polystyrene EPS-F [0,040]	0.040	20 - 50	17	1.450	E
С	25.0	planking spruce wood	0.120	50	450	1.600	D
D	160.0	construction timber (60/160; e=*)	0.120	50	450	1.600	D
Е	160.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
F	25.0	planking spruce wood	0.120	50	450	1.600	D
G		vapour barrier sd≥ 16m			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 OI3_{Kon}

Calculated by HFA

25.3



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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		0.131	0.042	1,54E-6	0.052	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	93.674	535.233	628.907	340.014	36.048	376.062