

Designation: awropi20a-04 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

External wall - awropi20a-04

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

Performance rating

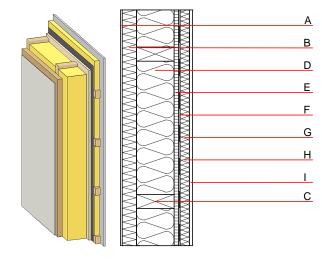
REI from inside 60 Fire protection performance **REI** from outside 60 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

nal performance	U Diffusion	0.13 W/(m ² K) suitable
lated by HFA		
stic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	54(-3;-11) dB
al battens for the dry	.,	the structural tin

Assessed by MA39

Mass per unit area 70.60 kg/m^2

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	s Building material Thermal performance					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	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	19.0	particleboard	0.130	50 - 100	700	1.700	D	
F		vapour barrier sd≥ 2m			1000			
G	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D	
Н	40.0	mineral wool [040; ≥16; <1000 °C] or air layer in type 02	0.040	1	16	1.030	A1	
1	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
I	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 45.4

Calculated by HFA



Designation: awropi20a-04 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		0.187	0.084	3,53E-6	0.031	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	88.694	669.624	758.318	687.746	57.446	745.191