

Designation: awropi15a-04 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

External wall - awropi15a-04

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

Performance rating

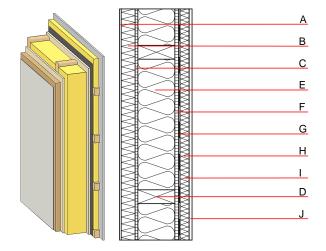
REI from inside 60 Fire protection performance RFI from outside 60 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

Thermal performance	U Diffusion	0.13 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n.w} (C _l)	54(-3;-10) dB

Rw(C;Ctr)=51(-1;-7) dB Assessed by MA39

Mass per unit area Calculation based on gypsum plaster board type DF

 76.80 kg/m^2



Note: e=625

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

	Thickness	Building material	Thermal per	Thermal performance			
			λ	μ min – max	ρ	С	EN
A	7.0	plaster	1.000	10 - 35	2000	1.130	A1
3	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	12.0	particleboard P5	0.130	50 - 100	700	1.700	D
D	240.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
E	240.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
=	16.0	particleboard P4	0.130	50 - 100	700	1.700	D
Ĵ		vapour barrier sd≥ 7m			1000		
1	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
	40.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent 013_{Kon} 48.5 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		0.199	0.089	3,68E-6	0.034	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	91.803	761.518	853.322	749.080	73.105	822.185