

Designation: awropi27a-04 8/2/23 Last updated:

KRONOSPAN OSB, spol. s r. o. Source:

Editor: HFA, SP

External wall - awropi27a-04

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

Performance rating

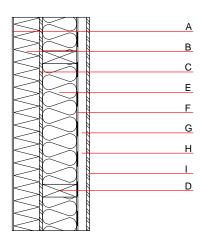
Fire protection **REI** from inside **REI** from outside 30 performance maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

Thermal performance Calculated by HFA	U Diffusion	0.16 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr})	44(-3;-6) dB

If battens for the dry lining are carried out vertically and screwed to the structural timber the result is Rw≥41dB

Assessed by HFA

Mass per unit area 43.90 kg/m^2



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

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	4.0	plaster	1.000	10 - 35	2000	1.130	A1
В	120.0	Polystyrene EPS-F [0,040]	0.040	20 - 50	17	1.450	Е
С	15.0	OSB	0.130	200	600	1.700	D
D	120.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	120.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
F		vapour barrier sd≥ 23m			1000		
G	40.0	spruce wood cross battens 40/60mm (a=400)	0.120	50	450	1.600	D
Н	40.0	air layer	0.000	1	1	1.008	
1	16.0	Kronospan OSB-Firestop	0.110	150 - 170	660	1.700	В

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 30.0

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		0.125	0.042	1,82E-6	0.033	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	73.108	486.347	559.455	399.685	102.986	502.671