

Designation: awropi28a-03 8/2/23 Last updated:

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

Editor: HFA, SP

External wall - awropi28a-03

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

Performance rating

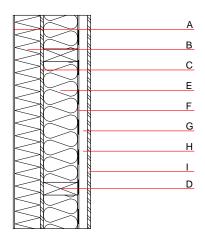
Fire protection **REI** from inside **REI** from outside 90 performance maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA

Calculated by HFA Acoustic performance	R.,, (C:C+-)	50(-3:-10) dB		
Thermal performance	U Diffusion	0.16 W/(m ² K) suitable		

 $L_{n,w}$ (C_l) If battens for the dry lining are carried out vertically and screwed to the structural timber the result is Rw≥47dB

Assessed by HFA

Mass per unit area 60.20 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	formance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	5.0	plaster	1.000	10 - 35	2000	1.130	A1
В	120.0	MW-PT [038; 95]	0.038		95		A1
С	15.0	OSB	0.130	200	600	1.700	D
D	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	240.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
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	
I	16.0	Kronospan OSB-Firestop	0.110	150 - 170	660	1.700	В

Sustainability rating (per m²) Database ecoinvent

OI3_{Kon} 71.1

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		0.340	0.100	2,98E-6	0.125	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(DI)	TAA 13	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
(Phases)	[MJ]	[IND]	[IAI2]	[ivi5]	[ivis]	[1415]