

Designation: awrhhi13a-00 8/2/23 Last updated:

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

Editor: HFA, SP

External wall - awrhhi13a-00

external wall, timber frame construction, ventilated, with dry lining, with cladding, wooden surface

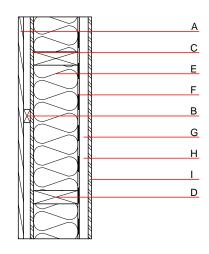
Performance rating

REI from inside 60 Fire protection performance REI from outside 30 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32 kN/m Classified by HFA

Thermal performance Calculated by HFA	U Diffusion	0.19 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n w} (C _l)	48(-3;-10) dB

If the battens of the ventilation level are screwed to the structural timber and the battens for the dry lining carried out vertically and screwed to the structural timber the result is Rw≥41dB Assessed by HFA

Mass per unit area 53.90 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	Thermal performance			
			λ	μ min – max	ρ	С	EN
Α	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
В	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
С	15.0	OSB	0.130	200	600	1.700	D
D	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	200.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
F		vapour barrier sd≥ 4m			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} 28.1

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		0.162	0.054	1,68E-6	0.059	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]