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A B C E F G H I D

External wall - awropi27a-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	60 30	
maximum ceiling height = Classified by HFA	= 3 m; maximum load E _{d,fi}	_i = 32,0 kN/m	
Thermal performance	U Diffusion	0.11 W∕(m ² K) suitable	
Calculated by HFA			
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	46(-3;-6) dB	
If battens for the dry linin timber the result is Rw≥4 Assessed by HFA		y and screwed to the structural	
Mass per unit area	m	50.90 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
١	4.0	plaster	1.000	10 - 35	2000	1.130	A1
3	120.0	Polystyrene EPS-F [0,040]	0.040	20 - 50	17	1.450	E
2	15.0	OSB	0.130	200	600	1.700	D
)	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
	240.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
		vapour barrier sd \geq 23m			1000		
5	40.0	spruce wood cross battens 40/60mm (a=400)	0.120	50	450	1.600	D
ł	40.0	air layer	0.000	1	1	1.008	
	16.0	Kronospan OSB-Firestop	0.110	150 - 170	660	1.700	В

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

49.1

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Designation: Last updated: Source: Editor: awropi27a-03 8/2/23 KRONOSPAN OSB, spol. s r. o. HFA, SP

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		0.215	0.064	2,27E-6	0.078	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	[MJ]	[M]	[M]	[LM]	[MJ]	[MJ]
(Phases)	[[1]]	[113]				

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.