# dataholz.eu

Designation: Last updated: Source: Editor: awrhho12a-00 8/2/23 KRONOSPAN OSB, spol. s r. o. HFA, SP

## External wall - awrhho12a-00

external wall, timber frame construction, ventilated, without dry lining, with cladding, wooden surface

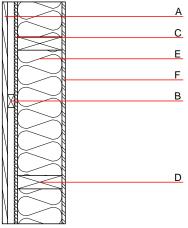
### Performance rating

Fire protection performance	REI from inside REI from outside	60 30
maximum ceiling height = Classified by HFA	= 3 m; maximum load E	<sub>d,fi</sub> = 32 kN∕m
Thermal performance	U Diffusion	0.20 W∕(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	45(-2;-8) dB
If battens for the dry linin timber the result is Rw≥42 Assessed by HFA	5	lly and screwed to the structural

Mass per unit area

m

50.30 kg/m<sup>2</sup>



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

	Thickness	Thickness Building material Thermal performance					
			λ	µ min – max	ρ	с	EN
A	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	fibreboard (MDF)	0.140	11	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	16.0	Kronospan OSB-Firestop	0.110	150 - 170	660	1.700	В

#### Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

27.7

Calculated by HFA

## Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.156	0.052	1,45E-6	0.055	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[M]	[M]	[M]	[M]	[MJ]	[LM]
A1 - A3	65.894	698.099	763.993	378.895	30.578	409.472