

Designation: awrohi01a-02 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awrohi01a-02

external wall, timber frame construction, not ventilated, with dry lining, with cladding, other surface

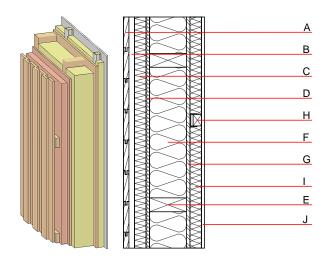
Performance rating

Thermal performance	U Diffusion	0.20 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	53(-3;-9) dB
battens for the dry lining	mounted offset witho	ut using resilient clips will result in

battens for the dry lining mounted offset without using resilient clips will result in Rw(C;Ctr)=50(-2;-7) dB Assessed by MA39

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Calculation based on GF



Note: e=625; I=without insulation

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

	Thickness	Building material	Thermal pe	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	24.0	spruce wood cross battens	0.120	50	450	1.600	D
С	50.0	wood wool composite boards	0.090	2 - 5	370	2.000	В
D	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
Е	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
F	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
G	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
Н	40.0	spruce wood battens offset mounted on resilient clips	0.120	50	450	1.600	D
1		without insulation					
J	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
J	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

Ol3_{Kon} 25.3

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		0.130	0.055	2,31E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	129.159	789.275	918.433	449.448	28.891	478.339