

Designation: awrohi01a-10 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awrohi01a-10

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

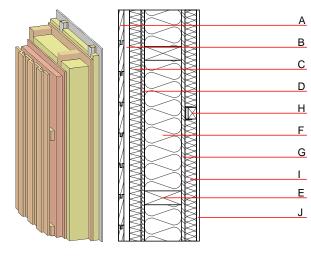
Performance rating

Thermal performance	U Diffusion	0.19 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	54(-3;-9) dB
hattens for the dry lining	mounted offset witho	ut using resilient clins will result in

battens for the dry lining mounted offset without using resilient clips will result in $Rw(C;Ctr)=51(-2;-7)\ dB$ Assessed by MA39

Mass per unit area m 71.50 kg/m²

Calculation based on GF



Note: e=625

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
A	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
E	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
F	160.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
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
	40.0	sheep wool [0,041; R=26] or air layer in type 02	0.041	1	30	1.720	E
	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

OI3_{Kon} 21.7

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		0.110	0.046	2,34E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	126.873	899.858	1026.731	433.753	29.972	463.725