

Designation: awrohi02a-08 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

External wall - awrohi02a-08

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

Performance rating

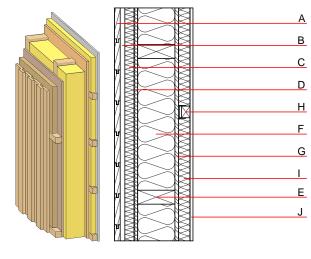
Fire protection **REI** from inside 60 performance REI from outside 30 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 19,2 kN/m Classified by HFA

Thermal performance	U Diffusion	0.17 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n.w} (C _l)	50(-3;-9) dB

Assessed by MA39

Mass per unit area 67.60 kg/m^2

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
Α	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
В	50.0	spruce wood cross battens	0.120	50	450	1.600	D
С	40.0	softboard [045; 250] - rigid underlay	0.045	5	250	2.100	E
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	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
G	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
Н	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
I	40.0	mineral wool [038; ≥33; ≥1000°C] or air layer in type 02	0.038	1	33	1.030	A1
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

OI3_{Kon} 36.2

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		0.190	0.068	2,31E-6	0.060	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	140.821	873.358	1014.179	528.291	42.896	571.187