

Designation: awrhho08b-05 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awrhho08b-05

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

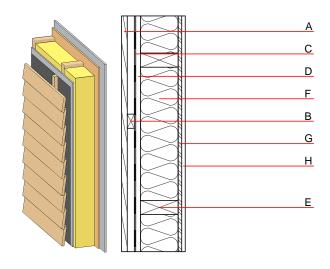
Performance rating

Thermal performance	U Diffusion	0.26 W/(m ² K) suitable		
Calculated by HFA				
Acoustic performance	R_w (C;C _{tr}) $L_{n,w}$ (C _I)	49(-2;-7) dB		

Battens for the ventilation space screwed onto the structural timber result in an Rw(C;Ctr)=45(-1;-6) dB Assessed by MA39

Calculation based on GF

Mass per unit area



Note: e=625

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

 57.30 kg/m^2

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	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		wind barrier			1000		
D	20.0	gypsum fibre board (2x10 mm)	0.320	21	1000	1.100	A2
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	15.0	gypsum fibre board or	0.320	21	1000	1.100	A2
Н	15.0	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

Ol3_{Kon} 28.2

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		0.136	0.049	2.02E-6	0.046	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]