

Designation: awrhho05b-00 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

External wall - awrhho05b-00

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

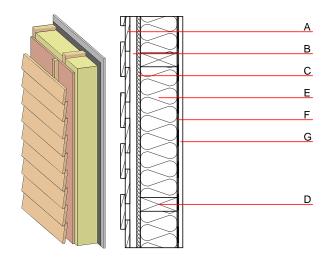
Performance rating

Thermal performance	U Diffusion	0.27 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	45(-2;-8) dB
Battens for the ventilation	space screwed onto t	the structural timber result in an

Battens for the ventilation space screwed onto the structural timber result in an Rw(C;Ctr)=41(-1;-7) dB Assessed by MA39

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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 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	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	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
E	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F		vapour barrier sd≥ 1 m			1000		
G	18.0	gypsum fibre board or	0.320	21	1000	1.100	A2
G	18.0	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 19.8

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		0.097	0.043	1,69E-6	0.018	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	100.514	509.797	610.311	334.551	22.510	357.061