

Designation: awrhho09a-04 Last updated: 8/2/23

Source: Holzforschung Austria

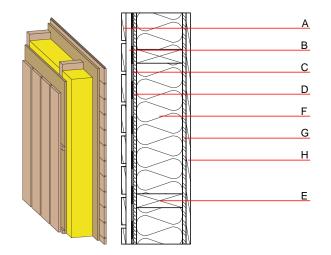
Editor: HFA, PLB

External wall - awrhho09a-04

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

Performance rating

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 _I)	44(-2;-5) dB		
with closed wooden facac Assessed by TGM	de R _w von 47 (-2; -7)			
Mass per unit area	m	62.60 kg/m ²		



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

	Thickness	Building material	Thermal pe	Thermal performance			Reaction to fire	
			λ	μ min – max	ρ	С	EN	
Α	19.0	larch wood external wall cladding (open) vertical	0.155	150	600	1.600	D	
В	30.0	larch wood - cross battens (30/50; 30/80) - ventilation	0.155	150	600	1.600	D	
С		wind barrier			1000			
D	15.0	fibreboard (MDF)	0.140	11	600	1.700	D	
E	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D	
F	240.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E	
G	15.0	OSB	0.130	200	600	1.700	D	
Н	19.0	planking tongue and groove	0.120	50	450	1.600	D	

Sustainability rating (per m²)

Database ecoinvent	
OI3 _{Kon}	18.5
Calculated by IBO	



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Details of sustainability rating

Database ecoinvent

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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		0.127	0.055	1,74E-6	0.026	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	154.662	965.462	1120.124	356.276	38.887	395.163