

Designation: awrhho09a-08 Last updated: 8/2/23

Source: Holzforschung Austria

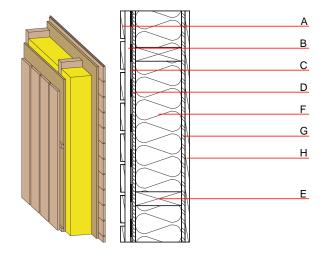
Editor: HFA, PLB

# External wall - awrhho09a-08

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

### Performance rating

Thermal performance	U Diffusion	0.15 W/(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	45(-2;-6) dB
with closed wooden facad Assessed by TGM	de R <sub>w</sub> von 48 (-2; -8)	
Mass per unit area	m	66.20 kg/m <sup>2</sup>



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

Thickness		Building material	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	280.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
F	280.0	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	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

# $\textbf{Sustainability rating} \ (\text{per } \text{m}^2)$

Database ecoinvent	
OI3 <sub>Kon</sub>	22.0
Calculated by IBO	



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## Details of sustainability rating

### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.134	0.060	2,12E-6	0.030	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]