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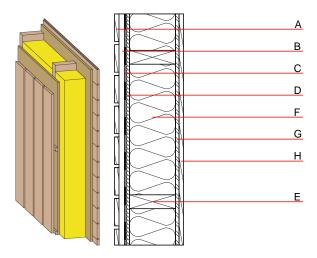
Designation: Last updated: Source: Editor: awrhho09a-06 8/2/23 Holzforschung Austria HFA, PLB

External wall - awrhho09a-06

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

Performance rating

Fire protection performance	REI from inside REI from outside	30 30
maximum ceiling height = Classified by HFA	3 m; maximum load E _{d,fi} = 3	32 kN/m
Thermal performance	U Diffusion	0.20 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	43(-2;-6) dB
with closed wooden facade Assessed by TGM	R _w von 46 (-2; -8)	
Mass per unit area	m	59.10 kg/m ²



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

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	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	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
F	200.0	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

Sustainability rating (per m²)

Database ecoinvent

Calculated by IBO

OI3_{Kon}

18.9

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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		0.117	0.052	1,81E-6	0.026	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.