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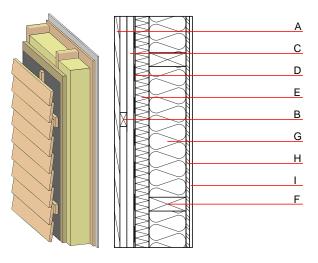
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External wall - awrhho07a-11

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

Performance rating

Fire protection performance maximum ceiling height = Classified by HFA Classified by HFA	REI from inside REI from outside 3 m; maximum load E _{d,fi} =	60 30 32,0 kN∕m
Thermal performance	U Diffusion	0.17 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	47(-2;-8) dB
Mass per unit area	m Im plaster board type DF	63.00 kg/m ²



Note: According to OIB-RL 2 (Austria) is for ventilated and insulated facades (from building class 2) an insulation material with minimum Euroclass D required.

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

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
4	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
В	30.0	spruce wood battens - ventilation	0.120	50	450	1.600	D
С	30.0	spruce wood cross battens	0.120	50	450	1.600	D
D		wind barrier			1000		
E	60.0	wood-fibre insulation board [045; 140]	0.045	2 - 5	140	2.100	E
F	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
G	200.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
Н	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

21.0

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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		0.120	0.053	2,07E-6	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[LM]	[MJ]	[LM]	[M]	[MJ]
(Filases)						

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.