

Designation: awrhho14a-00 Last updated: 8/2/23 Steico SE Source: Editor: HFA, SP

External wall - awrhho14a-00

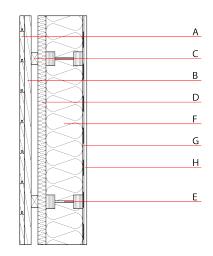
external wall, timber frame construction, ventilated, without dry lining, with cladding, other surface

Performance rating

Fire protection **REI** from inside 30 performance REI from outside 30 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 51 kN/m Classified by HFA

Thermal performance	U Diffusion	0.21 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	45(-2;-8) dB
ssessed by HFA		
Mass per unit area	m	45.20 kg/m ²
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Calculation based on gypsum plaster board type DF



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 pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	24.0	larch wood external wall cladding (closed)	0.155	150	600	1.600	D
В	30.0	spruce wood cross battens (≥30/50)	0.120	50	450	1.600	D
С	30.0	spruce wood battens - ventilation (≥30/50)	0.120	50	450	1.600	D
D	35.0	STEICOuniversal dry [050; 210]	0.050	3	210	2.100	E
Е	160.0	STEICOjoist mit Furnierschichtholzgurten (60/39) und Hartfasersteg (60/160; e=625)					
F	160.0	STEICOzell [039; 40]	0.039	1 - 3	40	2.100	E
G		STEICOmulti membra 5 sd 5m					E
Н	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
Н	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 21.8

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		0.100	0.046	2,05E-6	0.020	
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Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]