

Designation: awrhho13a-04 8/2/23 Last updated:

Saint-Gobain Austria GmbH Source:

Editor: HFA, SP

External wall - awrhho13a-04

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

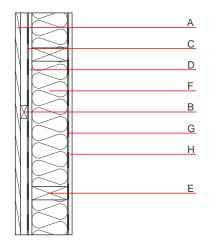
Performance rating

REI from inside 60 Fire protection performance REI from outside 60 maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 23,4 kN/m Classified by HFA

Thermal performance	U Diffusion	0.25 W/(m ² K) suitable
Calculated by IBO		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	43 dB

The acoustic insulation assessment is based on a length-related flow resistance of r≥5 kPa.s/m². If this value is lower for the insulation material used, the Rw value is reduced by 3dB. Assessed by TGM

Mass per unit area $44.40~\text{kg/m}^2$



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

	Thickness	Building material	Thermal pe	rformance		Reaction t	
			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 offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
С		wind barrier			1000		
D	15.0	Rigips Riduro	0.250	4 - 10	1000	1.050	A2
E	160.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
F	160.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
G		vapour barrier sd≥ 2m			1000		
Н	15.0	Rigips Riduro	0.250	4 - 10	1000	1.050	A2

Sustainability rating (per m²)

Database ecoinvent					
OI3 _{Kon}	14.2				
Calculated by IBO					



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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		0.073	0.033	1,64E-6	0.015	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	84.455	460.738	545.193	256.420	12.201	268.621