

Designation: awrhho13a-00 8/2/23 Last updated:

Saint-Gobain Austria GmbH Source:

Editor: HFA, SP

# External wall - awrhho13a-00

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

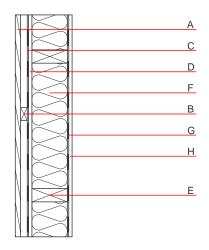
## Performance rating

**REI** from inside 90 Fire protection performance REI from outside 90 maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 27 kN/m Classified by HFA

Thermal performance	U Diffusion	0.22 W/(m <sup>2</sup> K) suitable
Calculated by IBO		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>I</sub> )	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  $54.90 \text{ kg/m}^2$ 



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

	Thickness	Building material	Thermal per	Thermal performance				
			λ	μ min – max	ρ	С	EN	
	24.0	larch wood external wall cladding	0.155	150	600	1.600	D	
3	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D	
;		wind barrier			1000			
)	15.0	Rigips Riduro	0.250	4 - 10	1000	1.050	A2	
	160.0	construction timber (60/; e=625)	0.120	50	450	1.600	D	
	160.0	ISOVER Ultimate	0.035	1	20	1.030	A1	
		vapour barrier sd≥ 2m			1000			
1	15.0	Rigips Riduro	0.250	4 - 10	1000	1.050	A2	

# Sustainability rating (per m<sup>2</sup>)

Database ecoinvent OI3<sub>Kon</sub> 23.2 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		0.099	0.046	2,20E-6	0.019	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	83.417	379.641	463.058	361.479	12.201	373.680