

Designation: awrhho13a-03 8/2/23 Last updated:

Saint-Gobain Austria GmbH Source:

Editor: HFA, SP

## External wall - awrhho13a-03

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

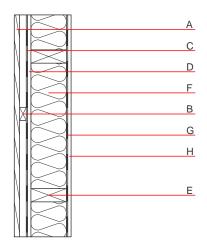
## Performance rating

**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 <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>l</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  $58.70 \text{ kg/m}^2$ 



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

	Thickness	Building material	Thermal pe	rformance			Reaction 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 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	Wood fibre insulation [039; 45]	0.039	1 - 2	45	2.100	E
G		vapour barrier sd≥ 2m			1000		
Н	15.0	Rigips Riduro	0.250	4 - 10	1000	1.050	A2

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

Database ecoinvent	
Ol3 <sub>Kon</sub>	15.5
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		0.072	0.033	1,78E-6	0.016	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	89.478	498.248	587.727	298.335	23.405	321.740