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Designation: Last updated: Source: Editor: awrhho13a-03 8/2/23 Saint-Gobain Austria GmbH HFA, SP

External wall - awrhho13a-03

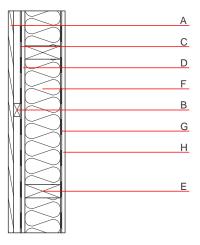
external wall, timber frame construction, ventilated, without dry lining, with cladding, other surface

Performance rating

Mass per unit area

Fire protection performance maximum ceiling height = Classified by HFA	REI from inside REI from outside 3 m; maximum load E _d ,	60 60 _{fi} = 23,4 kN/m
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 ₁)	43 dB
		ength-related flow resistance of on material used, the Rw value

m



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

58.70 kg/m²

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	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 m²)

Database ecoinvent

OI3_{Kon}

Calculated by IBO

15.5

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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		0.072	0.033	1,78E-6	0.016	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
		CA 413	[14]	[MJ]	[MJ]	[MJ]
(Phases)	[MJ]	[MJ]	[MJ]	[[1012]]	[IND]	[1413]

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.