

Designation: iwrxxi02b-02 8/2/23 Last updated:

Saint-Gobain Austria GmbH Source:

Editor: HFA, SP

Internal wall - iwrxxi02b-02

internal wall, timber frame construction, with dry lining, other surface

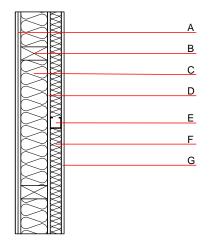
Performance rating

Fire protection performance maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 19kN/m Classified by HFA

 R_w (C;C_{tr}) 63 dB Acoustic performance $L_{n,w}$ (C_{l})

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 $93.00~\text{kg/m}^2$



Note: The fire resistance is only valid when wall is used as partition with only one side exposed to fire.

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

	Thickness	Building material	Thermal performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN	
Α	30.0	Rigips Riduro 2x mm	0.250	4 - 10	1000	1.050	A2	
В	120.0	construction timber (60/; e=625)	0.120	50	450	1.600	D	
С	120.0	ISOVER Ultimate	0.035	1	20	1.030	A1	
D	30.0	Rigips Riduro 2x	0.250	4 - 10	1000	1.050	A2	
Е	50.0	RigiProfil >50mm; resilient channel						
F	50.0	mineral wool [040; 11; <1000°C]	0.040	1	11	1.030	A1	
G	25.0	Rigips Duo Tech	0.250	4 - 10	800	1.050	A2	

Sustainability rating $(per \ m^2)$

Database ecoinvent OI3_{Kon} 32.3

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		0.101	0.048	3,23E-6	0.015	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MI]	[MJ]	[MI]	[MJ]	[MJ]
A1 - A3	49.720	139.286	189.006	481.432	2.056	483.488