

Designation: twrxxo09b-01 Last updated: 8/2/23

Saint-Gobain Austria GmbH Source:

Editor: HFA, SP

# Compartment wall - twrxxo09b-01

compartment wall, timber frame construction, without dry lining, double-layer, other surface

### Performance rating

Fire protection performance

El 90 (for the whole construction); maximum ceiling height = 3 m; maximum load  $E_{d.fi} = x kN/m$ Classified by HFA

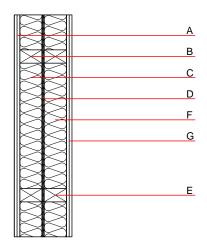
Thermal performance	U Diffusion	0.18 W/(m <sup>2</sup> K)		
Calculated by HFA				
Acoustic performance	$R_w$ (C;C <sub>tr</sub> ) $L_{n,w}$ (C <sub>1</sub> )	68 dB		

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

Calculated by IBO

Mass per unit area  $73.00 \text{ kg/m}^2$ 



Note: Fill the separating joint > 10 mm with mineral wool or seal off floor by

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

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	30.0	Rigips Riduro 2xmm	0.250	4 - 10	1000	1.050	A2
В	100.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
С	100.0	ISOVER Multi-Kombi Holzrahmenfilz	0.033	1	11	1.030	A1
D	10.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
E	100.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
F	100.0	ISOVER Multi-Kombi Holzrahmenfilz	0.033	1	11	1.030	A1
G	30.0	Rigips Riduro 2xmm	0.250	4 - 10	1000	1.050	A2

# Sustainability rating (per m<sup>2</sup>) Database ecoinvent OI3<sub>Kon</sub> 27.5



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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		0.095	0.043	2,80E-6	0.014	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
	55.270	191.189	246.459	412.055	0.978	413.033