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Designation: twrxxo09b-01
Last updated: 8/2/23
Source: Saint-Gobain Austria GmbH
Editor: HFA, SP

Compartment wall - twrxxo09b-01

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

Performance rating

Fire protection performance	**REI**	90

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

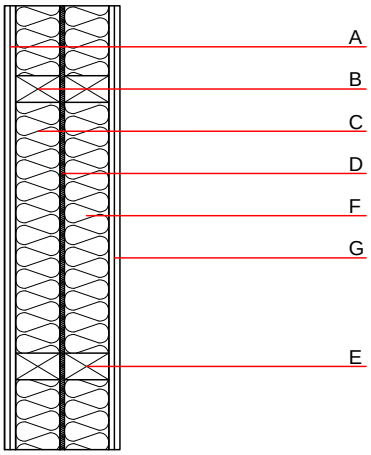
Thermal performance	**U**	0.18 W/(m²K)
	Diffusion	

Calculated by HFA

Acoustic performance	**R_w ($C;C_{tr}$)**	68 dB
	$L_{n,w}$ (C_I)	

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	**m**	73.00 kg/m²



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

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	c	EN
A	30.0	Rigips Riduro 2x...mm	0.250	4 - 10	1000	1.050	A2
B	100.0	construction timber (60/..; e=625)	0.120	50	450	1.600	D
C	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 2x...mm	0.250	4 - 10	1000	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

$OI3_{Kon}$	27.5

Calculated by IBO

Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg CO_2-e.]	AP [kg SO_2-e.]	EP [kg PO_4-e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.095	0.043	2,80E-6	0.014	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	55.270	191.189	246.459	412.055	0.978	413.033