

Designation: twmxxo05a-00 Last updated: 2/1/24

Saint-Gobain Austria GmbH Source:

Editor: HFA, PLB

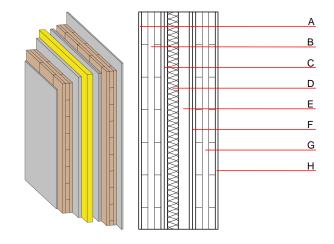
# Compartment wall - twmxxo05a-00

compartment wall, solid wood construction, without dry lining, double-layer, other surface

### Performance rating

Fire protection performance maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 14,95 kN/m Classified by IBS

Thermal performance	U Diffusion	0.30 W/(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>I</sub> )	70(-2;-8) dB
Assessed by IFT		
Mass per unit area	m	181.70 kg/m²
Calculation based on gvn	sum plaster board type DF	



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

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	12.5	gypsum plaster boards Rigips RF or	0.250	10	900	1.050	A2
Α	12.5	gypsum fibre board Rigidur H	0.350	19	1200	1.100	A2
В	90.0	cross laminated timber BBS 125 3 layer	0.130	50	470	1.600	D
С	30.0	gypsum fibre board Rigidur H (2x15 mm)	0.350	19	1200	1.100	A2
D	50.0	mineral wool [040; 50]	0.040	1	50	1.030	A1
Е	50.0	air layer	0.000	1	1	1.008	
F	30.0	gypsum fibre board Rigidur H (2x15 mm)	0.350	19	1200	1.100	A2
G	90.0	cross laminated timber BBS 125 3 layer	0.130	50	470	1.600	D
Н	12.5	gypsum plaster boards Rigips RF or	0.250	10	900	1.050	A2
Н	12.5	gypsum fibre board Rigidur H	0.350	19	1200	1.100	A2

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

Database ecoinvent OI3<sub>Kon</sub> 75.8 Calculated by HFA



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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		0.365	0.130	7,07E-6	0.087	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	374.629	1166,400	1541.029	1171.736	29.297	1201.033