

SILENT WALL BYTUM

SOUNDPROOFING AND WATERPROOFING BITUMINOUS MEMBRANE

TESTED

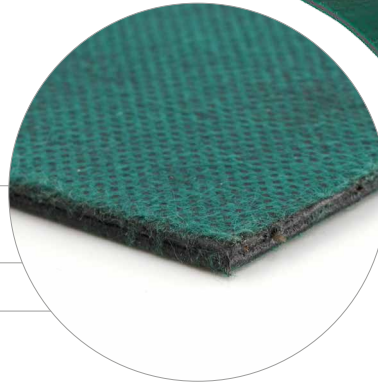
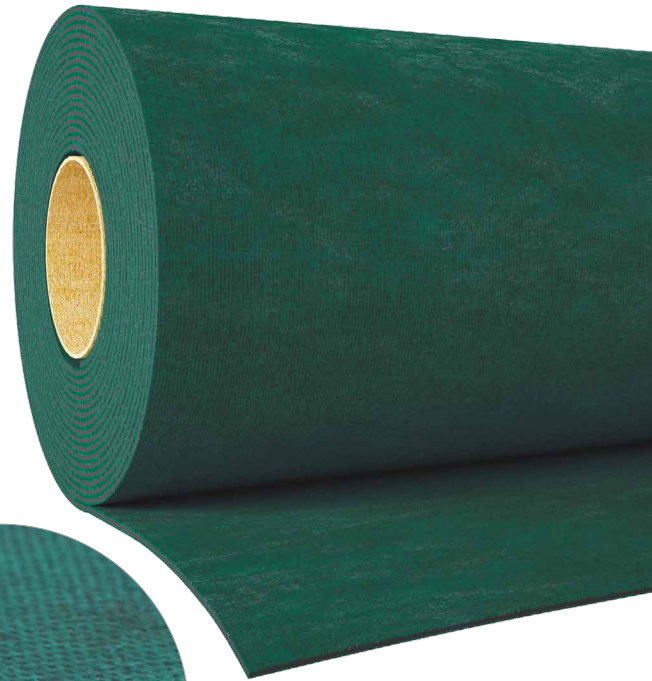
Thanks to its high surface mass (6 kg/m²), excellent reduction of airborne noise transmission can be achieved with minimal thicknesses. Also tested at the University of Bolzano.

PRACTICAL

Mechanical fastening allows the membrane to be applied to any surface, compensating for irregularities.

COST-PERFORMANCE

Composition of the mixture optimised to provide both good performance and low cost.




COMPOSITION

non-woven polypropylene fabric

waterproofing membrane made of elastoplastomeric bitumen

non-woven polypropylene fabric

CODES AND DIMENSIONS

CODE	H	L	thickness	surface mass	A	H	L	thickness	surface mass	A	
	[m]	[m]	[mm]	[kg/m ²]	[m ²]	[ft]	[ft]	[in]	[lb/sft]	[ft ²]	
SILWALL	1,2	5	4,2	6	6	3' 3 3/8"	16' 4 7/8"	0.17	1.23	65	30



VERSATILE

For any application where an increase in mass is required.

SAFE

Made of elastoplastomeric bitumen, covered on both sides with a polypropylene non-woven fabric. Does not contain harmful substances.

TECHNICAL DATA

Properties	standard	value	USC conversion
Thickness	-	4,2 mm	0.17 in
Surface mass m	-	6 kg/m ²	1.23 lb/ft ²
Density ρ	-	1500 kg/m ³	93.64 lb/ft ³
Resistance to airflow r	ISO 9053	> 100 kPa·s·m ⁻²	-
Compressibility class	EN 12431	class CP2	-
CREEP viscous sliding under compression (1.6 kPa - 33.4 psf)	EN 1606	0,5 %	-
Increase of sound reduction index ΔR _w ⁽¹⁾	ISO 10140-2	4 dB	-
Vibration damping - loss factor η (200 Hz)	ASTM E756	0,25	-
Thermal resistance R _t	-	0,1 m ² K/W	-
Thermal conductivity λ	-	0,7 W/m·K	0.404 BTU/(h·ft ² ·°F)
Specific heat c	-	900 J/kg·K	0.22 BTU/(lb·°F)
Water vapour resistance factor μ	EN 12086	20000	420 MN·s/g
Water vapour transmission Sd	-	80 m	0.043 US perm
Reaction to fire	EN 13501-1	class E	-

⁽¹⁾Measured in the laboratory on a 170 mm (6 3/4") timber-framed wall. See the manual for more information on configuration.

✓ SOUND REDUCTION INDEX LEVEL MEASUREMENTS

Tests carried out in the **Building Envelope Lab** of the **Free University of Bozen/Bolzano** in accordance with EN ISO 10140-2 have made it possible to measure the impact noise level of the construction assembly described below:

BASIC CONFIGURATION:

- ① timber frame structure (s: 170 mm - 6.7 in)
- ② plasterboard panel (s: 12,5 mm - 0.5 in)

$$R_w = 48 \text{ dB}$$

$$STC_{ASTM} = 48$$

CONFIGURATION 1:

- ① timber frame structure (s: 170 mm - 6.7 in)
- ② 2x plasterboard panel (s: 12,5 mm - 0.5 in)

$$R_w = 52 \text{ dB}$$

$$STC_{ASTM} = 53$$

+2,5 cm

$$\Delta R_w = +4 \text{ dB}$$

CONFIGURATION 2:

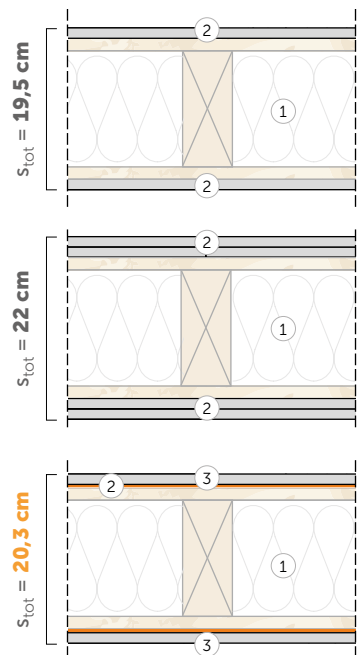
- ① timber frame structure (s: 170 mm - 0.5 in)
- ② **SILENT WALL BYTUM** (s: 4,2 mm - 0.17 in)
- ③ plasterboard panel (s: 12,5 mm - 0.5 in)

$$R_w = 53 \text{ dB}$$

$$STC_{ASTM} = 50$$

+0,8 cm

$$\Delta R_w = +5 \text{ dB}$$



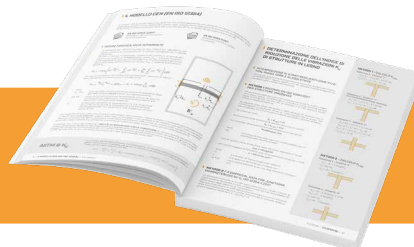
By using SILENT WALL BYTUM you can save space and achieve better results.

graphs and frequency values available

See the manual for more information on configuration

Use the QR-code to download the complete manual!

www.rothblaas.com



SILENT WALL | Recommendations for installation

SILENT WALL BYTUM SA



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