

# SILENT WALL BYTUM SA

## SOUNDPROOFING AND WATERPROOFING SELF-ADHESIVE BITUMINOUS MEMBRANE

### NOISE REDUCTION

Due to its high surface mass (5 kg/m<sup>2</sup>), the membrane absorbs up to 27 dB. Also tested in different configurations at the University of Bolzano.

### SELF-ADHESIVE

Thanks to its self-adhesive side, installation of the membrane is fast and precise in both horizontal and vertical applications and without mechanical fastening.

### PRACTICAL

The pre-cut removable film makes the sound-insulating membrane easier to install.

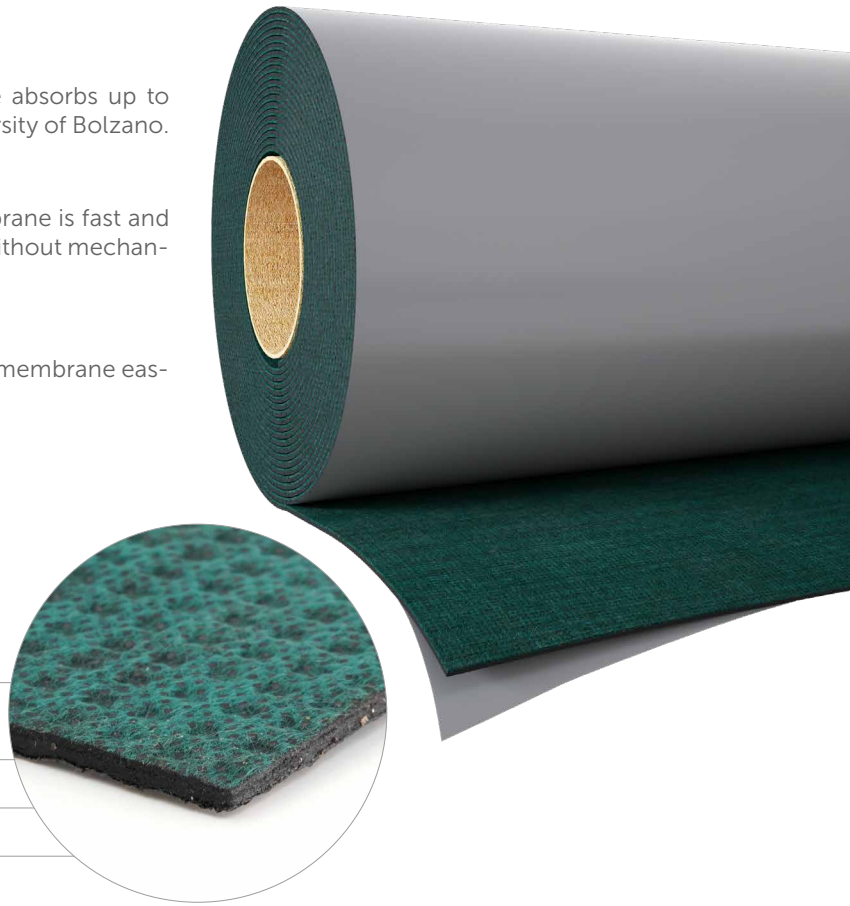
### COMPOSITION

non-woven polypropylene fabric


waterproofing membrane made of elastoplastomeric bitumen

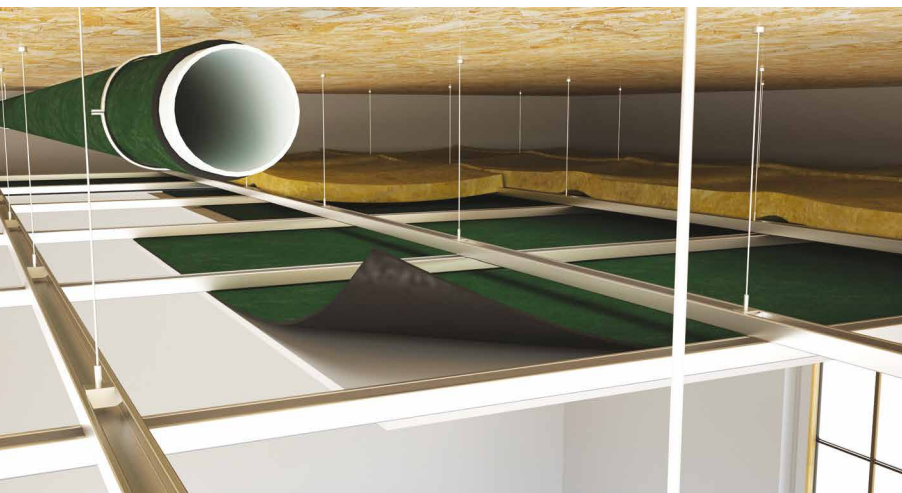
adhesive

removable silicone film



### CODES AND DIMENSIONS

CODE	H	L	thickness	surface mass	A	H	L	thickness	surface mass	A	
	[m]	[m]	[mm]	[kg/m <sup>2</sup> ]	[m <sup>2</sup> ]	[ft]	[ft]	[in]	[lb/sft]	[ft <sup>2</sup> ]	
SILWALLSA	1	8,5	4	5	8,5	3' 3 3/8"	27' 10 5/8"	0.16	1.02	91	24



### HERMETIC

Watertight and airtight, sealing of penetrations for mechanical fasteners is not required.

### WITHOUT LEAD

Made of self-adhesive elastoplastomeric bitumen, it does not contain lead or harmful substances.

## TECHNICAL DATA

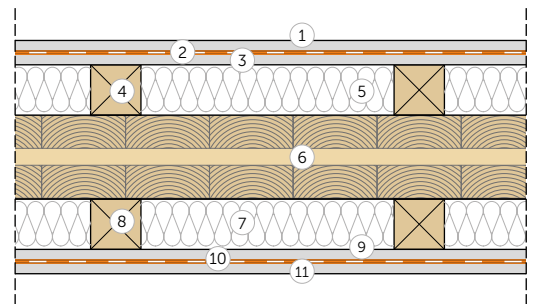
Properties	standard	value	USC conversion
Thickness	-	4 mm	0.16 in
Surface mass m	-	5 kg/m <sup>2</sup>	1.02 lb/ft <sup>2</sup>
Density ρ	-	1250 kg/m <sup>3</sup>	78.03 lb/ft <sup>3</sup>
Resistance to airflow r	ISO 9053	> 100 kPa·s·m <sup>-2</sup>	-
Critical frequency	-	> 85000 Hz	-
Increase of sound reduction index ΔR <sub>w</sub> <sup>(1)</sup>	ISO 10140-2	4 dB	-
Vibration damping - loss factor η (200 Hz)	ASTM E756	0,26	-
Thermal resistance R <sub>t</sub>	-	0,023 m <sup>2</sup> K/W	-
Thermal conductivity λ	-	0,17 W/m·K	0.098 BTU/(h·ft <sup>2</sup> ·°F)
Specific heat c	-	1200 J/kg·K	0.29 BTU/(lb·°F)
Water vapour resistance factor μ	EN 12086	100000	2000 MN·s/g
Water vapour transmission Sd	-	approx. 400 m	ca. 0.009 US perm
Reaction to fire	EN 13501-1	class E	-

<sup>(1)</sup> 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 laboratory of the **University of Padua** in accordance with EN ISO 10140-2 have made it possible to measure the sound reduction index of the construction assembly described below:

- ① plasterboard panel (s: 12,5 mm - 0.5 in)
- ② **SILENT WALL BYTUM SA** (s: 4 mm - 0.16 in)
- ③ plasterboard panel (s: 12,5 mm - 0.5 in)
- ④ solid wood batten (s: 60 mm - 2.4 in)
- ⑤ low density mineral wool insulation (s: 60 mm - 2.4 in)
- ⑥ CLT panel (s: 100 mm - 3.9 in)
- ⑦ low density mineral wool insulation (s: 60 mm - 2.4 in)
- ⑧ solid wood batten (s: 60 mm - 2.4 in)
- ⑨ plasterboard panel (s: 12,5 mm - 0.5 in)
- ⑩ **SILENT WALL BYTUM SA** (s: 4 mm - 0.16 in)
- ⑪ plasterboard panel (s: 12,5 mm - 0.5 in)



### graphs and frequency values available

See the manual for more information on configuration

$$R_w (C; C_{tr}) = 59 (-2; -7) \text{ dB}$$

Use the QR-code to download  
the complete manual!

[www.rothblaas.com](http://www.rothblaas.com)

