

SILENT WALL BYTUM SA

SOUNDPROOFING AND WATERPROOFING SELF-ADHESIVE BITUMINOUS MEMBRANE

NOISE REDUCTION

Due to its high surface mass (5 kg/m²), the membrane absorbs up to 26 dB. Also tested in different configurations at the University of Bolzano and CSI Milan.

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

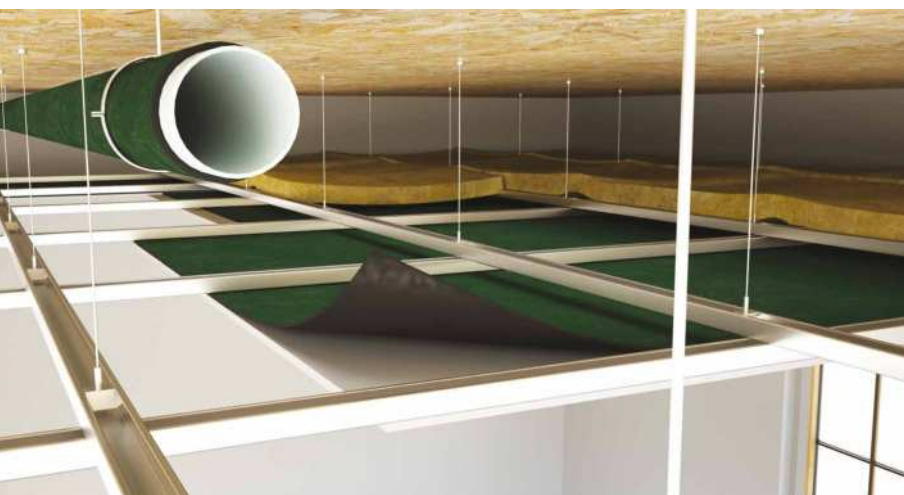
adhesive

removable silicone film



CODES AND DIMENSIONS

CODE	H [m]	L [m]	thickness [mm]	surface mass [kg/m ²]	A [m ²]	
SILWALLSA	1	8,5	4	5	8,5	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

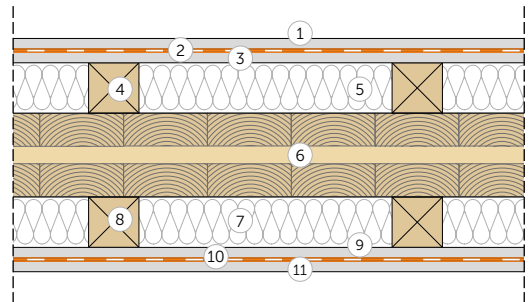
Properties	standard	value
Thickness	-	4 mm
Surface mass m	-	5 kg/m ²
Density ρ	-	1250 kg/m ³
Resistance to airflow r	ISO 9053	> 100 kPa·s·m ⁻²
Critical frequency	-	> 85000 Hz
Increase of sound reduction $\Delta R_w^{(1)}$	ISO 10140-2	4 dB
Vibration damping - loss factor η (200 Hz)	ASTM E756	0,26
Thermal resistance R_t	-	0,023 m ² K/W
Thermal conductivity λ	-	0,17 W/m·K
Specific heat c	-	1200 J/kg·K
Water vapour resistance factor μ	EN 12086	100000
Water vapour transmission Sd	-	approx. 400 m
Reaction to fire	EN 13501-1	class E

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

✓ SOUND REDUCTION 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 (t: 12,5 mm)
- ② **SILENT WALL BYTUM SA** (t: 4 mm)
- ③ plasterboard panel (t: 12,5 mm)
- ④ solid wood batten (t: 60 mm)
- ⑤ low density mineral wool insulation (t: 60 mm)
- ⑥ CLT panel (t: 100 mm)
- ⑦ low density mineral wool insulation (t: 60 mm)
- ⑧ solid wood batten (t: 60 mm)
- ⑨ plasterboard panel (t: 12,5 mm)
- ⑩ **SILENT WALL BYTUM SA** (t: 4 mm)
- ⑪ plasterboard panel (t: 12,5 mm)



graphs and frequency values available

See the manual for more information on configuration

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

Use the QR-code to download
the complete manual!

www.rothoblaas.com

