

tec sound[®] sy

ADHESIVE BACKED SOUNDPROOFING MEMBRANE



TECHNICAL DATA SHEET - BPIR CLASS 1



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Adhesive backed soundproofing membrane

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TECSOUND[®] SY is a mass loaded sound proofing barrier suitable for lightweight construction with convenient peel and stick application.

Due to its high density, TECSOUND[®] allows architects and builders to add mass to traditional building design by taking up almost no additional space. TECSOUND[®] can reach high indexes of insulation with minimum thickness.

Application

- Soundproofing against airborne noise in vertical walls with a low surface density (lightweight partition walls or boards made of different materials).
- Soundproofing against airborne and rain noise in ceilings and lightweight roofs.
- Reduction of impact noise level in all types of floors, sandwiched between floor slabs and loose laid flooring.
- Its applications in the industrial field cover from the soundproofing of booths to the acoustic insulation of machine-rooms, gutter pipes, sound damping of metal sheets, etc.

Composition

TECSOUND SY[®] is a high density polymer-based, asphalt-free, synthetic soundproofing self adhesive membrane, viscoelastic and adaptable to surfaces, that offers good acoustic insulation in different building elements. Its self-adhesive layer on one side allows its direct application on most building surfaces.

Features & Benefits

- Self adhesive backing for peel and stick convenience.
- High acoustic insulation, combined with soft, flexible elements.
- Self-extinguishing. Fire Group 1-S.
- Easy handling and adaptable to uneven surfaces.
- Great elongation capacity.
- Easy to cut.
- Cold and heat resistance.
- No water absorption.
- Good bonding to most types of surfaces.
- Self seals by overlapping edges.
- Excellent ageing resistance.
- Rot-proof.
- Special dimensions for laminated plasterboard.
- Acts as a vapour control layer.



Triton 4™ in Rondo Donn DX[®] exposed grid system

Sound Reduction Index, R, dB

| Tecsound | SY 35 | SY 50* | SY 70 | SY 100 |
|----------------|-------|--------|-------|--------|
| STC/Rw | 24 | 26 | 29 | 32 |
| Frequency (Hz) | | | | |
| 125 | 13 | 14 | 18 | 18 |
| 250 | 15 | 17 | 21 | 23 |
| 500 | 19 | 21 | 24 | 27 |
| 1000 | 24 | 26 | 30 | 32 |
| 2000 | 28 | 31 | 35 | 37 |
| 4000 | 33 | 36 | 39 | 43 |

* SY 50 ex-stock. Others to indent only, lead times apply.

Technical Specifications:

| Property | Standard | TECSOUND SY | Unit |
|--------------------------------|-------------------|---------------------|----------------------------|
| Density | - | 2.01 | kg/m ³ |
| Tensile strength | NT-67 | >30 | N/50mm |
| Elongation | NT-67 | >500 | % |
| Pliability | EN 1109 | -20 | °C |
| Fire Group | UNE-EN 13501-1 | Bs2d0 (1-S) | - |
| Water vapour resistance factor | UNE-EN 1931 met B | $\mu \geq 1806$ | - |
| Water absorption (24h @ 23°C) | ISO 62 met 1 | 0.003 | % |
| TVOC after 28 days | EN 16516 | ≤ 60 | $\mu\text{g} / \text{m}^3$ |
| Shore hardness A | NT 74 | 30 ± 10 | - |
| Young module (E) | - | 1.3×1.1744 | MPa |
| Poisson coefficient | - | 0.23 | - |

Product Specifications:

| Tecsound | SY 35 | SY 50* | SY 70 | SY 100 |
|-----------------------------|---------|--------|--------|--------|
| Thickness (mm) | 1.75 | 2.5 | 3.5 | 5.0 |
| Weight (kg/m ²) | 3.5 | 5.0 | 7.0 | 10.0 |
| Roll dimensions | 8.05m x | 6.05 x | 5.05 x | 4.0 x |
| m ² /roll | 1.22m | 1.22m | 1.22m | 1.20m |
| Roll/pallet | 9.82 | 7.38 | 6.16 | 4.8 |
| m ² /pallet | 24 | 24 | 24 | 21 |
| | 235.68 | 177.12 | 147.84 | 100.8 |

* SY 50 ex-stock. Others to indent only, lead times apply.

Limitations:

- For interior use only.
- Operating Service Temperature: -10 up to 70°C.
- Horizontal application must be on the back of linings. Do not attach underneath horizontal surfaces.

Maintenance:

- Tecsound is rot-proof.
- The material doesn't require any maintenance once it's installed in its final location.

NZ Building Act

This product is not subject to a warning or ban under Section 26.

NZ Building Code Compliance:

- B2 Durability – Clause B2.3.1 (b) (i): Soprema Tecsound SY will have a minimum durability of at least 15 years when installed in accordance with; manufacturer's installation requirements.
- C3 Fire – Clause C/AS2 3.4(a): Soprema Tecsound SY has a Fire Material Group Number 1-S (B-s1/s2) by MBIE Building Performance Surface Finishes Standards Comparison 2938, 01 March 2015 in accordance with EN 13501-1:2007.

Storage & Handling:

TECSOUND SY should be stored horizontal on pallets, without stacking. Product supplied in rolls with carton core inside. Store it in the original packaging, in dry conditions, well ventilated and protected from hot temperatures, no higher than 35 °C, and UV radiation. The maximum period of storage is 1 year.

Warranty:

15 year limited warranty against manufacturing defects.

Installation:

Shall not commence until the building is water tight and dry. Application temperature shall be between 5—35°C.

SUBSTRATE:

All types of normal building substrates (renderings, plasterboard, metal, plastic materials). The substrate must be even, smooth, clean and dry. Plasterboard joints shall be sealed to avoid adherence problems. It must also be free from elements that could damage the membrane. If the rendering is old, its condition must be checked to avoid adherence problems of the TECSOUND sheet to the rendering.

INSTALLATION OF THE MEMBRANE:

Remove the protective silicone release paper and align the membrane on the substrate, exerting pressure over the whole membrane to ensure a good bonding. If the length of the product is too big or it is applied in rolls, remove the protective release paper progressively to aid installation.

INSTALLATION OF THE MEMBRANE ON METAL DECKS:

The membrane must be applied in such a way that the length of the roll is perpendicular to the direction of the deck profile. The membrane must be made to follow the profile of the metal support at all times, ensuring that there is no formation of air pockets. The thermal insulation boards are then installed, mechanically fastened.

LAPS:

Overlap 5 cm both vertically and horizontally. Care must be taken to always seal the laps correctly, as small openings can reduce the level of acoustic insulation required.

For other applications e.g. above ceilings, contact Asona.

Specification:

Acoustic system shall be Tecsound SY sound attenuation membrane as supplied by Asona Ltd Auckland NZ Tel: +64(0)9 525 6575 info@asona.co.nz. Selected membrane shall be self adhesive SY (), ()mm thick, () kg/m², Fire Group 1-S.