TECSOUND®

TECSOUND® is a high-density, polymer-based, synthetic soundproofing membrane, asphalt-free, which provides good acoustic insulation in the different construction elements.

Properties

- High acoustic insulation, combined with flexion-pliable elements (sheet plaster, carrier board).
- Flexible.
- High elongation capacity.
- Easy to handle and adaptable to uneven surfaces.
- Hot and cold-resistant.
- Self-extinguishing.
- Excellent ageing-resistance.
- Rot-proof.

Applications

- Airborne noise insulation in vertical surfaces with low surface mass (lightweight partitions or panels in various materials).
- Airborne noise insulation in ceilings.
- Reduction of impact noise level in all types of frameworks, in formation of floating floors.
- Damping of impact noise produced by atmospheric agents in metal roofs.
- In combination with sound-absorbent materials, it results in products with high acoustic performance characteristics.
- Its applications in the industrial sector range from soundproofing booths to insulation of machine rooms, drainpipes, acoustic damping of metal sheeting, etc.

For further information, see examples in the acoustic manual.

Technical data

TEST	VALUE
Density	2,00 g/cm3 (± 0,05)
Pliability (UEAtc)	Does not break when bent at -20 ºC
Tensile Strength (EN 12311 - 1)	200 N/5cm
Nail Tear (EN 12310 – 1)	≥ 150 N
Elongation (EN 12311-1)	180%
Dynamic Stiffness (EN 29052-1)	190 MN/m3
Crushing strength	4.84 Kg/cm2
Grammage of polypropylène géotextile	70 g/m2
Acoustic properties	See system DS – Acoustic Manual

Instructions for use

Support: Admits all habitual types of construction supports (sheet plaster, metal, carrier board, plastics). The support must be even, smooth, clean and dry. It must furthermore be dry and cleaned of any elements that could damage the membrane.
If the plaster coat is old, its condition should be checked to prevent problems with adherence of the Tecsound to the plaster coat.

Fitting the membrane: Vertical and ceilings applications: The membrane is laid over the support after application of **adhesive** to the membrane and the support. Leave the adhesive to dry for 15-20 minutes (following the manufacturer instructions) before fitting. Subsequently, unroll Tecsound on the support and press down all over, taking care of avoiding any air bubbles, as they can cause a loose of adherence.
It can also by mechanically fix. The density of fixations will vary following the type of support, the weight of Tecsound and the application.
Installation on metal deck *: unroll the membrane on top of the metal deck progressively. Geotextile finishing must be exposed in order to protect the membrane. The unrolling of the membrane has to be done perpendicular to the rib. Insulation boards and waterproofing have to be installed above the acoustic membrane.

Joins: Overlap 5 cm both vertically and horizontally. The precaution of sealing the joins correctly should always be taken, either with the adhesive or with hot air, as small openings can reduce the level of acoustic insulation required.

Quantity required: 1 m^2 of membrane covers approximately 0.90 m^2 of surface area, allowing for overlaps.

Presentation and Storage

Type	(Kg/m2)	Thickness (mm)	Presentation	Nº rolls/ pal*
Tecsound 35	3.5	1.75	8 x 1.22 m (rl)	24 rl, 234.24 m^2/pal
Tecsound 50	5.0	2.5	6 x 1.22 m (rl)	24 rl, 175.68 m^2/pal
Tecsound 70	7.0	3.6	5 x 1.22 m (rl)	24 rl, 146.4 m^2/pal
Tecsound 100	10.0	5	4 x 1.20 m (rl)	24 rl, 100.8 m^2/pal

It should be stored in a dry place, protected against the elements, and not exposed to temperatures over 35 ºC. The maximum recommended storage time is one year.

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