



SOUNDPROOF

APPLICATIONS

ROOF

WALL

FLOOR

# TECSOUND SY

TECHNICAL DATA SHEET APTDS-E-121-01

## DESCRIPTION

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

## ADVANTAGES

- High acoustic insulation, combined with soft, flexible elements.
- Flexible
- Self-extinguishing.
- 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.
- Excellent ageing resistance.
- Rot-proof
- Special dimensions for laminated plasterboard.
- Acts as a vapour control layer.

## 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 noise in ceilings and lightweight roofs.
- Reduction of impact noise level in all types of floors, sandwiched between floor slabs and looselaid flooring.
- Damping of impact noise caused by atmospheric agents on metal decks.
- Combined with sound-absorbent materials, it offers products with high acoustic performance.
- 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.

## REGULATIONS

- In conformity with CTE-DB-HR, EN ISO 140-1, EN ISO 140-3, EN ISO 140-6, EN ISO 140-8, EN ISO 10140-2 y EN ISO 717/1/2.
- Quality Management System according to ISO:9001

## INSTALLATION

### SUBSTRATE:

- Lends itself to all types of normal building substrates (renderings, gypsum board, metal, DM, plastic materials). The substrate must be even, smooth, clean and dry. 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.



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## PRECAUTIONS

- Place the membrane at room temperature > 5°C to avoid a loss of "tacking" of the adhesive.
- Make sure the support is free of moisture before placing the membrane.
- Adhesion tests must be carried out in case the support is not the usual one or has some finishing treatment.
- Make sure that the adhesive is in contact with the entire surface of the support, especially when it is not flat.

## PACKAGING AND STORAGE

	Tecsound SY 35	Tecsound SY 50	Tecsound SY 70	Tecsound SY 100
Weight (Kg/m <sup>2</sup> )	3.5	5	7	10
Thickness (mm.)	1.75	2.5	3.5	5
Length (m.)	8.05	6.05	5.05	4
Width (m.)	1.22	1.22	1.22	1.2
m <sup>2</sup> /roll	9.82	7.38	6.16	4.8
Roll / pallet	24	24	24	21
m <sup>2</sup> / pallet	235.68	177.12	147.84	100.8
Storage	Horizontal in pallets, without stacking. Product supplied in rolls with carton core inside. Store it into the original packaging, in dry conditions and protected from hot temperatures and UV radiation, not exposed to temperatures higher than 35 °C. The maximum period of storage is 1 year.			

## TECHNICAL PROPERTIES

CARACTERISTIQUES	Test method	TECSOUND SY	Unit
Density	-	2.010	Kg/m <sup>3</sup>
Tensile strength	NT-67	>30	N/50mm
Elongation	NT-67	> 500	%
Pliability	EN 1109	-20	°C
Fire classification	UNE-EN 13501-1	Bs2d0	-
Water vapour resistance factor	UNE-EN 1931 met B	$\mu \geq 1806$	-
Water absorption (24h a 23°C)	ISO 62 met 1	0,003	%
Shore hardness A	NT 74	30 $\pm$ 10	-

## ACOUSTIC VALUES

CARACTERÍSTICAS	Test method	Value	Unit
Young module (E)	-	Longitudinal 1,35637 Transversal 1,1744	MPa
Poisson coefficient	-	0,23	-





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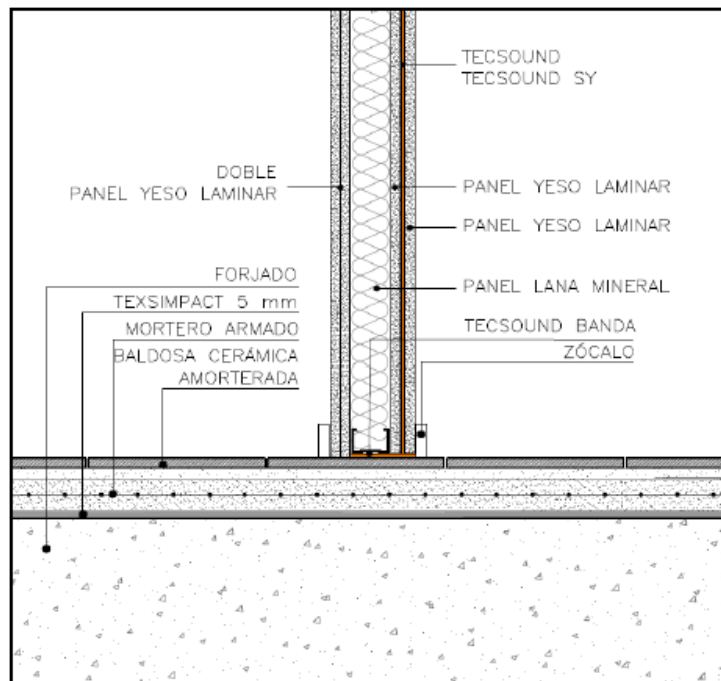
## ACOUSTIC VALUES OF THE INSTALLED PRODUCT

### SYSTEM PI-1

Vertical enclosure made up with two laminated plaster boards (PYL) of 12,5 mm, a structure of steel profiles of 48 mm wide, 45 mm of a mineral wool board inside and double PYL of 12,5 mm with a **TECSOUND SY 50** sheet between the two boards.

FREQUENCY (Hz)	R with TECSOUND	R without TECSOUND	Ut
125	34,3	22,5	dB
250	43,8	40,5	dB
500	55,2	52,0	dB
1000	59,9	57,0	dB
2000	63,9	52,4	dB
4000	61,0	47,6	dB
Global index of weighted acoustic reduction A, $R_A$	<b>52,2</b>	<b>44</b>	dB
Global index of acoustic reduction, $R_w$	<b>55</b>	<b>47,6</b>	dB

Data according to the test of acoustic air noise insulation in conformity with UNE-EN ISO 10140-2:2011 by the approved laboratory APPLUS.



(\*) Consult our Acoustic Insulation Systems brochure or contact our Technical Department to know about other systems

