TECSOUND SY®

TECSOUND SY® is a high density polymer-based, asphalt-free, synthetic soundproofing membrane, that offers good acoustic insulation in different building elements. It is equipped with an aluminum complex foil on its upper side acting as protection and finishing layer and a self-adhesive layer on the bottom side.

ADVANTAGES

- High acoustic insulation, combined with soft, flexible elements.
- High sound damping capacity on metal surfaces.
- Self-extinguishing.
- Easy to handle and adaptable to uneven surfaces.
- Great elongation capacity.
- Easy to cut with a knife or scissors.
- Cold and heat resistance.
- Good bonding to most of the types of surfaces.
- Excellent ageing resistance.
- Imputrescible.

APPLICATIONS

- Soundproofing against airborne noise in vertical walls with 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 loose-laid 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.

STANDARD

- Under conformity of 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 control systems under ISO:9001

SOPREMA GROUP c/ Ferro 7, Pol. Ind. Can Pelegrí 08755 Castellbisbal-Barcelona (+34) 93 635 14 00

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 good bonding.
  If the length of product is very large, or it is applied in rolls, remove the protective release paper progressively to aid installation.
- JUNTAS:
  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.

PRECAUCIONES

- Aplicar la lámina a temperatura ambiente > 5ºC para evitar pérdida de “tacking” del adhesivo.
- Asegurarse que no hay humedad en el soporte antes de aplicarlo.
- Realizar pruebas de adherencia en caso que el soporte no sea habitual o incorpore algún tratamiento de acabado.
- Asegurarse que el adhesivo está en contacto en toda la superficie del soporte, especialmente cuando este no es plano.

PACKAGING AND STORAGE

	Tecsound SY 35	Tecsound SY 50	Tecsound SY 70	Tecsound SY 100
Weight (Kg/m^2)	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^2/rollo	9.82	7.38	6.16	4.8
Rolls/pallet	24	24	24	21
m^2/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 tan 35 ºC. The maximum period of storage is 1 year.			

ACOUSTIC INSULATION

TECHNICAL SPECIFICATIONS

CHARACTERISTICS	Test	TECSOUND SY	Unit
Density	-	2.010	Kg/m^3
Tensile strength	NT-67	>30	N/50mm
Elongation	NT-67	> 500	%
Plegability	EN 1109	-20	ºC
Fire Classification	UNE-EN 13501-1	Bs2d0	-
Vapour water resistant factor	UNE-EN 1931 met B	μ ≥ 1806	-
Water absorption (24h a 23ºC)	ISO 62 met 1	0,003	%
Hardness Shore A	NT 74	30 ±10	

SOUNDPROOFING PROPERTIES

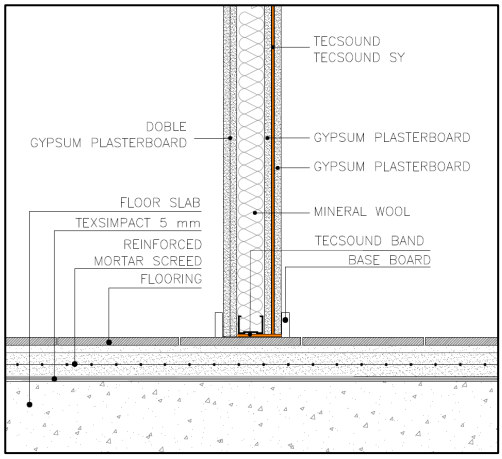
CHARACTERISTICS	Test	TECSOUND SY	Unit
Young modul (E)	-	Longitudinal 1,35637 Transversal 1,1744	MPa
Poisson coef.	-	0,23	-

ACOUSTIC DATA OF APPLIED PRODUCTS

SYSTEM PI-1

Drywall formed by double laminated gypsum plasterboard 12.5 mm thick + 48 mm width steel profile structure and cavity filled with mineral wool + double laminated gypsum plasterboard 12.5 mm thick + TECSOUND SY 50 membrane in between..

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
Weighted Sound Reduction Index A, R_A	**52,2**	**44**	dBA
Sound Reduction Index, R_w	**55**	**47,6**	dB
Data according to the test of acoustic air noise insulation under EN ISO 10140-2:2011 standard by approved laboratory APPLUS.			



(*) For other systems, see the Acoustic Insulation Systems manual or consult the Technical Department.

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