

TECSOUND
texsa



Recyclable and made from 68% Recycled Material Fillers

for Metal Deck Roofing Systems using Tecsound Acoustic membrane

FEATURES

- Easier to use, cut and trim.
- Supplied in roll form.
- Airborne and Impact reduction.
- Good acoustic performance.
- Visco-elastic.

BENEFITS

- 100% recyclable.
- Unbeatable flexibility even down to -20°C.
- Self adhesive version available.
- Will also provide a degree of impact reduction.

PRODUCT DESCRIPTION

Tecsound 35, 50, SY50, SY70, 100 and S50-ALU

are a polymer-based, asphalt-free, high density synthetic soundproofing membrane, that offers good acoustic insulation in different building elements. It has extremely high visco-elasticity as well as being extremely flexible even in cold temperatures.

- Tecsound 35 scrim reinforced (T35 Part Code A116)
- Tecsound 50 scrim reinforced (T50 Part Code A120)
- Tecsound with peel of self-adhesive backed (SY50 Part Code A130)
- Tecsound with peel of self-adhesive backed (SY70 Part Code A137)
- Tecsound with self-adhesive backed with Foil Face (SY50-ALU Part Code A135)
- Tecsound 100 scrim reinforced (T100 Part Code A140)

TEKNİK AKUSTİK MİMARLIK SAN VE TİC LTD ŞTİ.

This material has excellent sound insulating properties. Many construction materials and techniques do not provide enough damping. Rigid sheet materials such as plasterboard absorb little sound energy because they tend to vibrate and re-radiate sound on the other side quite effectively. Tecsound acoustic membrane however has tremendous density and mass whilst being extremely 'limp', its acoustically better than lead of the same surface mass, so will help absorb sound energy far more efficiently.



Tecsound S on a metal wall

Whilst some systems rely on visco-elastic glues to provide 'damping' the results achieved will vary greatly on the application of the glue. Is it too thick ? is it too thin ? has it been applied evenly and consistently ?



Tecsound FT on a wall

Visco-elastic glues do not add any extra mass to a system and at the end of the day the best way to reduce bass transmission is by having a heavy weight, heavily damped, mass/spring system. Tecsound Acoustic Membrane provides the best of both worlds, high additional mass and high damping, that can be applied not only over 100% of the area in question but uniformly

PACKAGING AND STORAGE

PRODUCT	Weight / m ²	Thickness	Rolls size
Tecsound 35	3.5	1.7mm	8 x 1.22m rolls
Tecsound 50	5	2.6mm	6 x 1.22m rolls
Tecsound 100	10	5.2mm	4 x 1.2m rolls
Tecsound SY50	5	2.6mm	6 x 1.22m rolls
Tecsound SY50-ALU	5	2.6mm	6 x 1.2m rolls
Tecsound SY70	7	3.5mm	5 x 1.22m rolls

(PLEASE NOTE): 1m² of material covers approx. 0.9 - 0.95m² allowing for overlaps).

*sizes are nominal, ± 2%

TECHNICAL DATA

Test	Value
Density	1.9g/cm ³ (± 0.05)
Pliability (UEAtc)	Does not break when bent at -20°C
Elongation (UNE 104-281/6.6)	300%
Crushing strength	4.84kg/cm ²

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Fire resistance	Euroclass B, s2, d0 (Class0 UK equivalent)
Continuous operating temperature	70°C (short term 100°C)
Melting point	140°C
Thermal Conductivity	0.450 W/mK
Airborne Acoustic performance (7kg/m ²)	R _w 28dB
Impact Acoustic performance (10kg/m ²) under 50mm concrete	ΔL _w 16dB

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 floors.
- When bonded between stiff rigid sheet materials it greatly reduces the resonance and coincidence dips.
- When stapled over frameworks it greatly improves a lightweight partitions overall performance.
- When bonded to lightweight resonating metal panelwork it greatly reduces vibration and re-radiated noise.
- Damping of impact noise caused by rain on metal deck roofs.
- 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.

For further information see examples in systems sheets.

WHICH WAY ROUND?:

The material has a reinforcing scrim facing on one side.

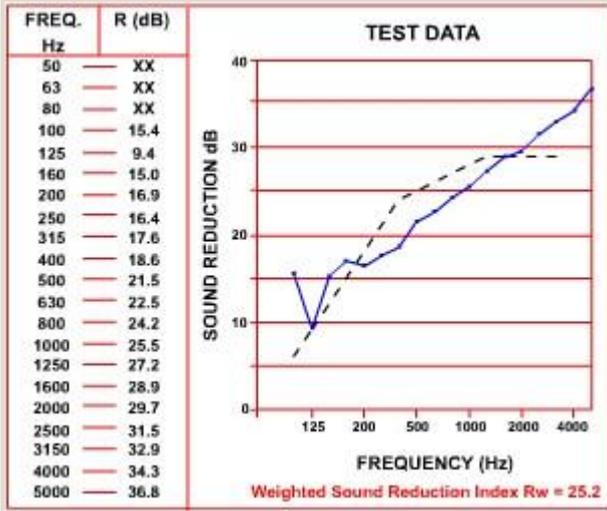
When stapling over a framework you want the scrim side facing you.

When laying on a floor have the scrim side facing you. When using multiple layers you will may find the material will want to tack to itself so keep scrim side against brown side.

When sticking in-between plasterboard stick the brown side to the first board.

Important: The material itself remains flexible down to -20°C; however the adhesive backing on the adhesive backed version (SY50) will degrade if left in temperatures approaching zero.

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Test Certificate Applus 4.042.669 above shows test data for the Tecsound 50.

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