

category	soundproofing
description	soundproofing membrane
part code	A116, A120 and A130



T50 – scrim reinforced



SY50 – adhesive-backed



T35 – scrim reinforced

Recyclable and made from 68% Recycled Material Fillers



A116, A120 AND A130 (T35, T50 AND SY50)

TECSOUND SOUNDPROOFING MEMBRANES are polymer-based, asphalt-free, high-density synthetic materials that offer good acoustic insulation in different building elements.

The membranes have extremely high visco-elasticity as well as being extremely flexible even in cold temperatures (-20°C).

Available in scrim-reinforced (T35, part code A116); plain (T50 part code A120); or adhesive-backed (SY50 part code A130) rolls with peel-off backing paper.

Acoustically better than lead of the same surface weight.

Advantages

- Cold and heat resistant
- Excellent ageing resistance/rot-proof
- Easy handling and adaptable to uneven surfaces
- Airbus Industry (ATS) APPROVED
- Highly flexible
- Easily trimmed
- Euroclass B,s2,d0 (UK Class 0)
- Rw 25.2dB for a single layer (@5kg/m²) (test certificate available on request) and around 32dB for a 10kg/m² double layer
- Highly visco-elastic
- Excellent acoustic insulation, especially when combined with lightweight panels and boards
- Improved low frequency performance

Applications

- Soundproofing against airborne noise in ceilings, and in vertical walls with low surface density (lightweight partition walls or boards made of different materials).
- Reduction of impact noise in all types of floor when 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 high acoustic performance.

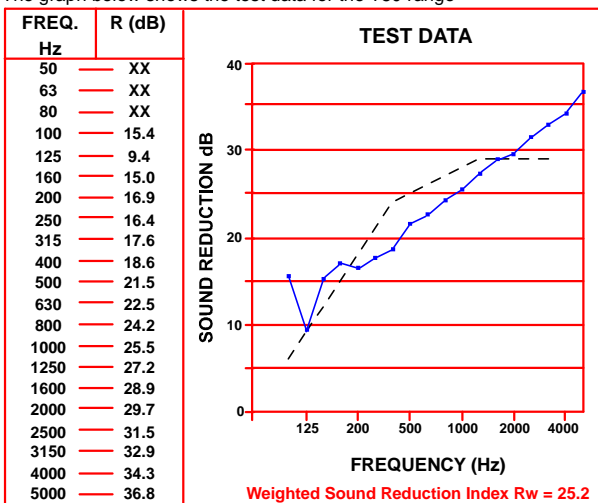
Many applications in the industrial field include soundproofing booths, acoustic insulation of machine-rooms and gutter pipes, sound-damping of metal sheets, etc.

Technical Specification

Product	T35, T50 & SY50 Soundproofing membrane
Description	Acoustic soundproofing membrane
Nominal sheet size (NB: 1m ² of material covers approx. 0.92m ² allowing for overlaps)	T35 = 8m x 1.22 (9.76m ²) T50 = 6m x 1.22m (7.32m ²) SY50 = 6m x 1.22m (7.32m ²)
Weight	T50/SY50 = 5kg/m ² ; T35 = 3.5kg/m ²
Thickness (approx.)	SY50 = 2.6mm; T50 = 2.6mm; T35 = 1.7mm
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	4.8kg/cm ²
Continuous operating temperature	70°C (short term 100°C)
Melting point	140°C
Fire resistance	Euroclass B, s2, d0 (Equivalent UK Class 0)
SRI	T50/SY50 = 25.2dB

Acoustic Performance

The graph below shows the test data for the T50 range



Test Certificate Number: 4.042.669

Fire Performance

Euroclass B, s2, d0 in accordance with EN 13823 (which is considered superior to the old British Standard Class 0 rating):

- **B** – Contribution to combustion is very limited. Demonstrated that the fire is not propagated beyond the strict area in which it has been applied.
- **s2** – Average amount and speed of emission of smoke.
- **d0** – No flammable drops or particles are produced.

This classification places the Tecsound range at the forefront of soundproofing membranes in terms of fire resistance. It is the first soundproofing membrane on the market to receive Euroclass Certification. To give you an idea of how good this is, Euroclass Standards above B (A1 and A2) can only be awarded to incombustible materials. Materials between Euroclass A and B can be considered the safest in case of fire, whilst those of level C and below can begin to be considered dangerous.

Worthy of note is that the tests were carried out directly on the product with no incombustible protection such as laminated plasterboard or metal plate, and on the self-adhesive version which makes the result all the more significant.

Acoustic Test Walls using lightweight metal studding with Tecsound Acoustic Membrane

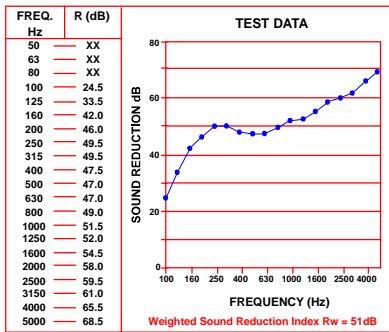
Rw 51dB (C_{tr}; -8)

Tecsound 70 between two layers of 12.5mm plasterboard on one side of a 50mm metal stud partition infilled with acoustic mineral wool.

Opposite side of partition double 12.5mm plasterboard.

Frame isolated using Tecsound BANDA anti-vibration strips.

Test Report: LGAI 20.012.331



Rw (C; C_{tr}) = 60 (-3; -9) dB

Tecsound 50 between two layers of 12.5mm plasterboard on both sides of a 70mm metal stud partition infilled with acoustic mineral wool.

Frame isolated using Tecsound BANDA anti-vibration strips.

Test Report: IEN-G.FERRARIS 34478-01

