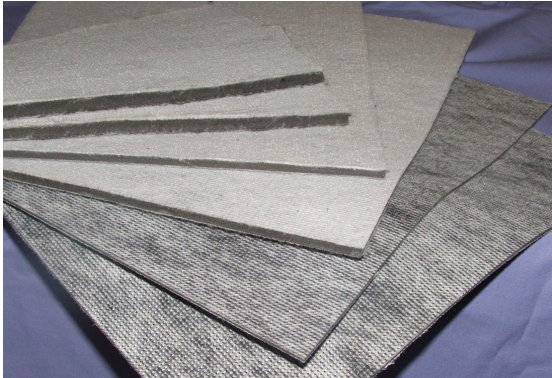




Visco-elastic Constrained Layer Damping Sheet



Vibradamp® FDF is a specially formulated composite material comprising a visco-elastic polymer system laminated between two layers of polyester fabric. It is specifically designed to be used as a constrained-layer damping sheet in glass reinforced plastic (GRP) and fibreglass/foam sandwich constructions. Very high damping of structure-borne vibration can be achieved.

Vibradamp FDF should be incorporated into the GRP structure at a stage where full thickness has been achieved. Once the **Vibradamp FDF** is in place, a further constraining layer of GRP, at 1/3 the full structure thickness is applied.

Vibradamp FDF can be applied to cured GRP using one of two methods.

1: A "contact adhesive" is applied to both the GRP surface and the **Vibradamp FDF**. Once the adhesive is completely dry the two surfaces can then be combined. A further layer of GRP to 1/3 the full structure thickness should then be applied.

2: Utilising the excellent wicking capability of the polyester fabric, **Vibradamp FDF** is applied directly onto the wet GRP resin surface and smoothed into place to ensure a bubble free finish. The curing resin will penetrate into the fabric matrix ensuring a strong tie between **Vibradamp FDF** and the GRP structure. Once in place a further layer of GRP to 1/3 the full structure thickness should then be applied. No separate adhesive is required.

NOTES: Specifications are subject to change without notice. The data listed in this document is typical of average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose. The conclusions drawn from acoustic test results are as interpreted in writing by qualified independent testing authorities or suitably qualified engineers where possible. Even so, always seek the opinion of your own engineer, as to the meaning of any data presented by the manufacturer as it is applied to any given project or use.

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FEATURES

- Compatible with most GRP resin systems
- No separate adhesive required
- Thin section with high damping efficiency
- Lightweight finished composite
- Large operating temperature range
- Easily cut, fabricated and installed

APPLICATIONS

- GRP boat structures especially around propeller, engine room, deckhouse etc.
- General hull damping
- GRP based boat, truck and bus engine compartments
- GRP machinery and equipment enclosures
- GRP compressor and generator set enclosures

BENEFITS

- Thinner than similar products
- Totally impermeable
- Long service life
- Easy to cut

COLOUR SELECTION

- Colour - Grey

SPECIFICATIONS

- Available in 1 mm (thickness) x 1300mm (width)
- Roll lengths of 10m
- Weight - 2.1 Kg/m²
- Recommended Service Temperature range: 0°-60°C

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Vibradamp was formerly called Soundamp