

DECIDAMP® FDF

visco-elastic constrained layer damping sheet

Decidamp® 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.

Decidamp FDF should be incorporated into the GRP structure at a stage where full thickness has been achieved. Once the Decidamp FDF is in place, a further constraining layer of GRP, at $\frac{1}{3}$ the full structure thickness is applied.

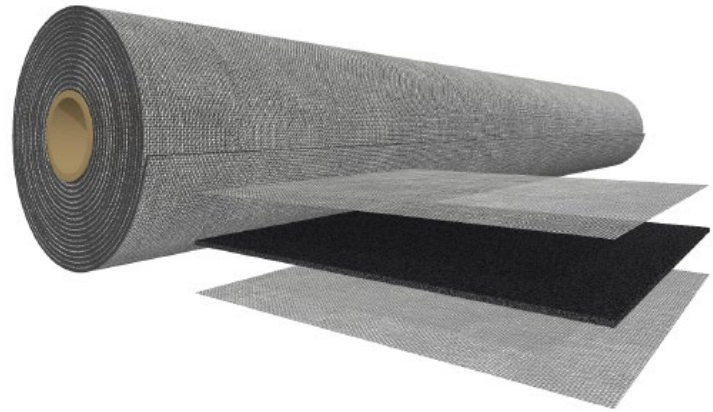
Decidamp FDF can be applied to cured GRP using one of two methods.

1: A "contact adhesive" is applied to both the GRP surface and the Decidamp FDF. Once the adhesive is completely dry the two surfaces can then be combined. A further layer of GRP to $\frac{1}{3}$ the full structure thickness should then be applied.

2: Utilising the excellent wicking capability of the polyester fabric, Decidamp 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 Decidamp FDF and the GRP structure. Once in place, a further layer of GRP to $\frac{1}{3}$ the full structure thickness should then be applied. No separate adhesive is required.

SPECIFICATIONS

Colour	grey
Available	1 mm (thickness) x 1300mm (width) Roll lengths of 10m Weight - 2.1 Kg/m ² Recommended Service Temperature range: - 40 to 100°C (Continuous) - 40 to 120°C (Intermittent)



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

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



PRODUCT SPECIFICATIONS / MATERIAL PROPERTIES / ACOUSTIC PERFORMANCE

Please contact Pyrotek® for the relevant data on this product.



For further information
and contact details,
please visit our website
pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.

