DELIVERING THE FUTURE OF COMPOSITE SOLUTIONS

Hi-PANEL
INFUSED COMPOSITE PANELS
INFUSED COMPOSITE PANELS TO SAVE TIME AND COST IN YOUR PROJECT

- Reduced build time
- Reduced set-up costs
- Ideal for one-off builds
- Improved quality control
- Can be pre-cut to shapes required

Hi-panels are infused composite sandwich panels from Gurtit, offering customers ease and speed of build, reduced set up and labour costs, and high quality construction of their composite part. Due to Gurtit’s extensive product range, Hi-panels can be made from a variety of materials, structurally engineered by our in-house team or manufactured to the customer’s laminate specification. They are delivered as finished panels (with maximum dimensions of 9 x 2m) or they can be CNC-cut to supplied shapes.

WHY INFUSION?
Infusion has been proven to offer superior mechanical properties over a hand lay-up build method. By achieving a more consistent fibre wet-out and higher fibre volume fraction, void content is reduced and structural integrity is improved. In addition, a more consistent and repeatable component weight is achieved.

WHY A SANDWICH PANEL?
A cored sandwich panel acts like a traditional I-beam. The core material separates the skins, maintaining the shear connection between them. This creates a stiff laminate for a relatively small increase in weight, unlike a single skin glass laminate where additional layers of reinforcement are required to achieve the same stiffness, significantly increasing the weight. The shear connection between the skins is critical, and the infusion process creates excellent skin-core bonds.

WHAT MATERIALS ARE HI-PANELS MADE FROM?
Gurtit manufactures Hi-panels to order, so we can make exactly what you need for your project.
Hi-panels are generally made with PRIME™ 20 epoxy infusion resin, a structural core selected from our range (Corecell™, PVCcell™, G-PET™ or Balsaflex™), and reinforcement fabrics (glass, carbon or aramid in various weaves). Gurtit’s specialist team of composite structural engineers can develop a structural solution to meet your project’s requirements, including code or class approval; or we can manufacture the panels to your own design and specification.

CAN YOU CUT HI-PANELS TO SHAPE?
Gurtit has computer numeric control (CNC) cutting machines that are able to cut your panel into shapes, supplied by you or your designer. Our production design team develops cut-files from your shapes using our proprietary software, nests the shapes efficiently to ensure waste is minimised, before cutting them out of the infused panels using our CNC machines. The shapes can be labelled, and remain tabbed in the original panel, for ease of delivery and storage.

WHAT APPLICATIONS ARE HI-PANELS USED FOR?
Hi-panels can be used for a wide range of structural and non-structural applications. Suitable for hulls, decks and the internal structures of power and sailing catamarans and monohulls, hatch lids, interior and decorative panels, as well as many other applications.

Projects to date include:
- 36ft power catamaran
- 78ft power catamaran
- Interior panels for a sailing catamaran
- 6m runabout
- 56ft sailing yacht
- Hatch lids for a tuna boat

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