Applications for Hi-Panel

Gurit works closely with all our industry partners in boat design, architecture and transport to deliver fully engineered Hi-Panel solutions to meet your custom and operational requirements.

Hi-panels are typically used by boat builders for a wide range of structural and non-structural applications in the marine sector for hull, decks, internal structures, hatch lids, interior and decorative panels, as well as many other applications.

Suitable for:
- Power and sailing catamarans
- Work boats and high speed ferries
- Recreational and pleasure craft
- Cruising and racing yachts
- Sports boats, kayaks and dinghies
- Caravans, RV’s and truck bodies, sidewalls floors and interior furniture
- Awnings roofs, and exterior cladding move-able architectural structures, bridge decks and removable walkways

Health & Safety

Gurit is a company committed to ‘Safety First’ and that includes looking after the health and safety of our customers. Gurit has taken a leading role in proactively reducing harmful chemicals from its formulations and including innovations such as LRT (Light Reflective Technology) that helps our customers to minimise exposure. The Hi-Panel system further compliments this by removing the amount of wet resin applications required to build the structure. The remaining assembly process can be completed with gun-dispersed adhesives, or the Ampreg™ 3X laminating resins, both of which feature LRT technology.

Further Information

For more detailed information on the Gurit Hi-Panel, as well as the complete Gurit product portfolio, please visit: www.gurit.com/Hi-Panel

Please note: Hi-Panels are currently only available in Australia, New Zealand and the Pacific Islands.

For technical support, pricing or other enquiries, please contact info-nz@gurit.com

Gurit Hi-Panel Projects

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<th>Project</th>
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<td>Optimistic 560 RIB</td>
<td>56m RIB by Stimson Yacht Design, New Zealand</td>
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<tr>
<td>East by West Ferry</td>
<td>19m all-electric carbon fibre passenger ferry, by Wellington Electric Boat Building Company (WEBB), designed by SSC Marine, New Zealand</td>
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<td>45ft day charter Sailing Catamaran for Sailing Bora Bora, French Polynesia, designed by Brett Bakewell-White</td>
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<td>36ft charter catamaran, designed by Evercat, New Caledonia</td>
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Gurit is your competent partner in Marine for light weighting with its teams of structural composite engineering and materials experts.
Hi-Panel - Engineered Structural Composite Panels

Gurit specializes in the development and manufacture of fully engineered structural composite panels specifically designed for lightweighting in custom marine or industrial applications to save time, cost and overall waste.

Hi-Panel system provides the builders the ease and confidence to build with high quality composite sandwich infused panels, delivered ready for assembly with an easy to follow diagram and prelabelled parts.

Benefits of building with Hi-Panel:
- Reduced build time with kitset panels
- Reduced set up and labour costs
- Reduced overall waste
- Precision assembly & fitting
- Panels can be pre-cut to shape
- Delivered as finished panels
- Improved quality control - high fibre weight fraction and low void content
- Controlled and verified cure levels and Tg, mechanical tested for survey requirements

Unique Features:
- Maximum panel size of 9m x 2m, less joining and less fairing, maximum strength and minimum weight
- Structurally engineered solution by in house team
- Access to a full range of core materials and reinforcements
- Peel ply surface both sides for bonding and surface protection

Customised Solution

Hi-Panel systems are custom made from a variety of Gurit materials, structurally engineered by our in-house team or manufactured to the customer's own specification. The panels are delivered direct as finished panels with maximum dimensions of 9 x 2m or they can be CNC-cut to finished shapes. The shapes can be labelled and remain tabbed in the original panel, for ease of delivery and storage.

Hi-Panel Construction

Hi-Panels are typically a cored sandwich panel using a Gurit epoxy infusion resin system, a structural core selected from our range; Corecel™, Kerdyn™ PET, Gurit PVC or Balsaflex™, and reinforcement fabrics such as E-glass, carbon or aramid in various weaves. Specialist surface finishes including enhanced cosmetic performance, or fire resistance can be applied during manufacture.

Infusion has been proven to offer superior mechanical properties over a hand lay up build or press methods. 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. Large format panels with fewer joins help save weight and preserves the full strength of the panel.

Digital Manufacturing

Hi-Panel harnesses digital manufacturing for rapid assembly. Machined on our CNC router to the exact dimensions from cut files generated directly from the designer geometry by our structural engineering team. Hi-Panel’s precision allows it to be seamlessly integrated with other digital process such as direct machined parts or tooling as well as B³ SmartPac by Gurit. B³ SmartPac comprises all the reinforcement and core materials required for the job, pre-cut to the exact shape and size to fit the mould, and clearly labelled for alignment and location.

Manufacturing details such as service runs or interfacing with adjacent equipment or structures can be incorporated at the manufacturing stage.
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