



BONDING LIGHTWEIGHT INTERNAL PARTITIONS

GENERAL DESCRIPTION

These lightweight panels are usually constructed of wood sandwiches with internal polyurethane foam or honeycomb core. They are particularly suited as partitions for cabins and technical rooms as they are of lighter weight than wood filled panels and have good soundproofing properties.

Due to the low density core, lightweight panels cannot be mechanically fixed to the hull structures in the same way as traditional plywood panels.

However, bonding with Sikaflex®-292i is an ideal replacement fixing method that also possesses the flexibility to respond to the movements and stresses of the assembly.

The uniform stress distribution prevents damages which may be result of stress concentration (example screw).

This process is also endorsed by the manufacturers of the lightweight panels.

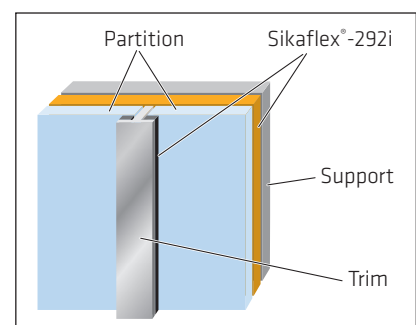


Fig. 10 Sikaflex®-292i bead application for bonding to the support

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SUBSTRATE PREPARATION

Please refer to the Sika Pre-Treatment Chart for Marine Applications.

APPLICATION OF Sikaflex®-292i ADHESIVE



Dry fit the panels to ensure an accurate fit and correct dimensioning. Prepare the surface accordingly



Place the spacers in position (thickness typically 3 mm, approximately 50 Shore A hardness)



Apply Sikaflex®-292i to the appropriate bond face using an appropriate bead



Assemble the components within 20 minutes of applying the adhesive



208

Uncured Sika adhesives or sealants may be removed with Sika® Remover-208



Panels can be held in place during cure by clamps or support brackets



Clamps and other fastening aids can be removed after 24 hours



Fig. 12 Lightweight panels being fitted to an open hull



Fig. 11 Sikaflex®-292i applied to a lightweight panel prior to fitting



Fig. 13 High-quality lightweight panels finished in traditional high-gloss wood veneer and bonded using Sikaflex®-292i