



# Advanced Materials

Honeycomb Flat Panels | Adhesives and Fillers | Panel Pins™ and Inserts

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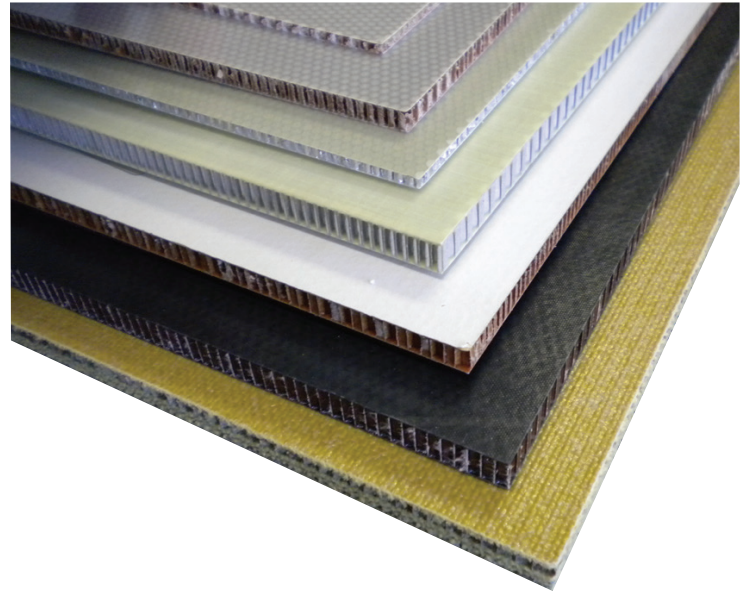
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# Honeycomb Flat Panel

LifePort offers a broad range of pressed aramid and aluminum honeycomb core panels with fiberglass or carbon skins pressed with epoxy or phenolic resin to enable their customers to control the products performance targets when strength, weight or flammability performance paramount.

LifePort Flat Panels can be used for the fabrication or repair of aircraft interiors components including:

- Cabinetry
- Galleys
- Bulkheads
- Partition/pocket doors
- Tables
- Seats
- Overhead bins
- Sidewalls
- Ceilings



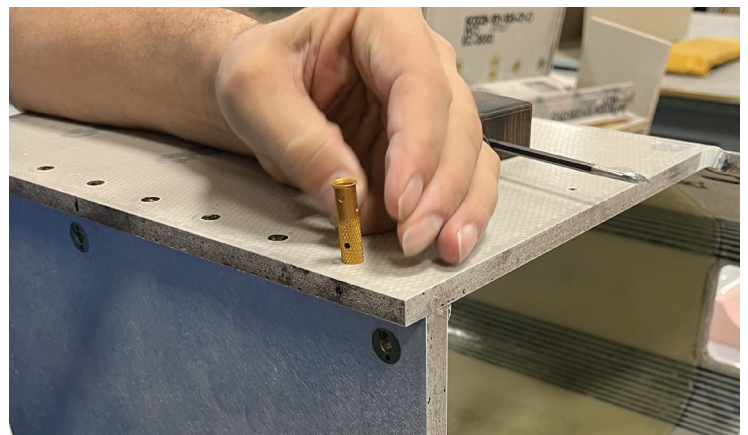
## Adhesives and Fillers

ATR-1000™ is an easy to apply and easy to sand, flame retardant surface filler suited for repair or final preparation of interior composite components prior to lamination of veneers or application of a primer/topcoat finish. ATR-1000™ is also suitable as a Flat Panel edge fill.

ATR-525™ is a two-component, thixotropic epoxy paste quick dry adhesive designed for use where high bond, shock, or resistance to peel is required. Adhesion to metal, glass and plastic is excellent. Ideal for potting of metallic or plastic insert and installation of LifePort Panel Pin™ fasteners.

## Panel Pins™ and Inserts

LifePort's Panel Pins™ are used to join honeycomb panel. Panel Pins™ are installed by utilizing a special two-part epoxy adhesive system designed for use with the Panel Pin™ system. The adhesive, which is injected into the Panel Pin™, is extruded into the panel core through strategically placed holes in the inserts, creating a bond with the panel. Panel Pins™ offer the benefit of reduced panel weight, as well as reduced labor and set up times. In many cases the use of Panel Pins™ eliminates the use of brackets and clamps.



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