

RIBBED FOAM CORE

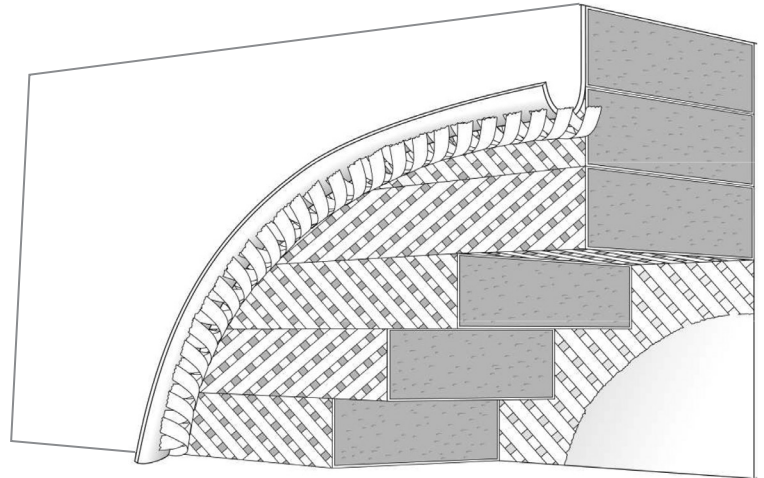
FRP Panels

Fiber-Tech
INDUSTRIES

1-800-879-4377 • fiber-tech.net

Advantages:

- Lightweight
- Provides Thermal Insulation
- Shear Strength & Stiffness
- Impact Resistance
- Post Impact Strength Retention
- Corrosion Resistant



Exterior Finishes

Gel Coat. 15 mils ($\pm .003$ ") of a smooth, high gloss gel coat designed to offer superior weathering characteristics and resistance to UV degradation. All standard Fiber-Tech gel coats are formulated to offer good flexibility, are acid and alkali resistant and when the surface is properly prepared, will readily accept decals and most paints. Please refer to Fiber-Tech's Limited warranty and discuss your paint or graphic package intentions with our sales staff.

Interior Finishes

Standard – Clear film. A thin clear film is laminated to the interior surface of the panel during the composite panel production process. This heat sealable film covers typical porosity and provides a surface which is considerably easier to clean than raw resin surfaces.

Optional – Resin Surface. For applications where sanding, laminating, or bonding to the interior surface of the panel is required, upon request, Fiber-Tech will eliminate the use of the clear film. A white pigmented polyester resin will be the final interior finish and will contain porosity on the surface.

Optional – Gel Coat. Where additional protection against moisture penetration is desired, Fiber-Tech will add 15 mils ($\pm .003$ ") of high gloss gel coat to the interior surface on special orders.

Ribbed Foam Core

Milliken's Tycor[®] family of cores is manufactured by a proprietary process that places glass fiber reinforcements through-the-thickness of closed cell polyisocyanurate foam sheets. Two standard wrapped designs are offered as well as custom designed composite cores. Ribbed foam cored Tycor[®] is an accepted alternative to standard wood, honeycomb, balsa and other foam core materials.

Optional Fiberglass Lamination Schedules

on the exterior and interior walls can be utilized to meet project specific design and performance criteria. Multiple layers of woven roving fiberglass and chopped strand mats can be laminated together to increase strength and improve impact resistance.

Proven Performance

The versatility and high strength to weight ratio of the lightweight ribbed foam cored FRP offers great advantages to the transportation, marine, military and construction industries.

It is an excellent choice for roofs, floors, walls and doors in rapid transit, bus, RV, and specialty trailers. Marine applications include bulkheads, decks, hulls, and engine covers.

High profile projects utilizing the Milliken's Tycor[®] material include the nations first composite bridge deck installed on federal property at the Wright-Patterson Air Force Base in Dayton, Ohio.

RIBBED FOAM CORE Specifications

Lightweight

The lightweight sandwich construction of the Fiber-Tech Ribbed Foam Core panel is a competitive advantage in applications demanding high performance structural panels. Lower weight means freedom in design and ease of material handling in the installation and application for the end-user.

Impact Resistance

Fiber-Tech's Ribbed Foam Core structural panels combine strength and resilience to provide a lightweight impact tolerant panel. Ribbed Foam cores have been found to absorb and dissipate impacts and shocks repeatedly that would cause failures in other lightweight foam core materials. Due to Tycor's® unique design, post impact strength retention is far superior to alternative lightweight foam materials.

Fiber-Tech's Ribbed Foam cored panels are damage-tolerant robust structures not seen in most lightweight foam panel designs.

Thermal Insulation

Polyisocyanurate foam cores are great insulators, with R factor ratings ranging near 4.0 per inch of thickness.

Corrosion Resistant

Utilizing optional special formulated resins Fiber-Tech's Ribbed Core Panels can be used in a variety of corrosive environments.

Size Limitations

Standard panels are available in sizes up to 120" wide x 58' long. Core thicknesses are available in 3/8" to 4" total thickness in 1/4" increments. (1/8" increments in panels less than 1" thick)

Manufacturing Tolerances

Width: $\pm 1/8"$	Length: $\pm 1/8"$
Straightness 1/8"	Squareness $\pm 1/4"$
(Adjacent corners)	(Diagonal corners)

Warranty:

Fiber-Tech offers a one (1) year Clad Tuff limited warranty. See warranty document for details.

Specifications are subject to change without notice.

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