

# CLAD FOAM<sup>®</sup>

## Insulated Foam Core Panels

Fiber-Tech  
INDUSTRIES

1-800-879-4377 • fiber-tech.net

CLAD FOAM panels are custom manufactured to meet customer service requirements:

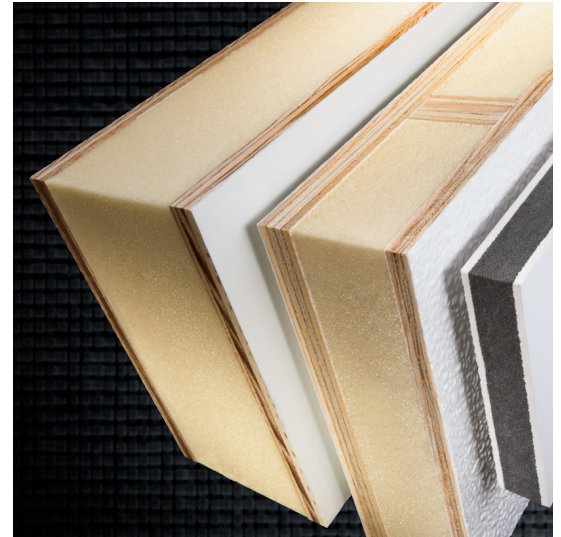
- Seamless one-piece construction
- Improved thermal properties
- Excellent impact resistance
- Structural integrity with superior cleanability

CLAD FOAM panels consist of either polyisocyanurate foam or expanded polystyrene foam insulated panels sandwiched between CLAD TUFF FRP/ plywood\*. (See CLAD TUFF brochure for additional information.)

*\* The interior layer of fiberglass is typically eliminated when the CLAD TUFF panel is utilized to construct the CLAD FOAM panel.*

A wide variety of options are available to achieve the desired strength, thickness or thermal value enabling you to easily custom specify your foam panel.

1. Choose the desired CLAD TUFF (FRP/plywood) thickness and finish for the exterior side of the laminate.
2. Choose the desired type and thickness of the foam core.
3. Choose the CLAD TUFF (FRP/plywood) thickness and finish for the interior side of the laminate



### CLAD FOAM Cores

**Polyisocyanurate Foam.** Fiber-Tech uses nominal 2# density, foam for maximum thermal efficiency. Available in thicknesses from ½” to 4”. Higher densities of foam are available on special order.

**EPS Foam.** Fiber-Tech also offers the choice of low to medium density expanded polystyrene (EPS) foam. Principle benefits include increased impact resistance, adhesion and thermal stability. Available in thicknesses from ½” to 4”.

**Plywood.** Fiber-Tech primarily utilizes only APA trademarked B-CX plywood, plugged and touched sanded one side, structural group I veneers.

**Fiberglass Reinforcements.** Fiber-Tech offers standard woven roving in either 17oz. or 22oz. weights.

### Exterior Finish

**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.

# CLAD FOAM<sup>®</sup> Specifications

## Dimensional Stability

All Fiber-Tech panels utilizing plywood cores are subject to minimal shrinkage and/or expansion when exposed to moisture or high temperatures.

## Size Limitations

Standard panels are available in sizes up to 120" wide x 58' long with a maximum overall thickness of 5".

## Vertical Stiffeners

CLAD FOAM panels utilize vertical stiffeners 24" on center as standard. Additional stiffeners can be added on special order. The vertical stiffener consists of 3/4" plywood cut to exact thickness of foam running vertically through the panel.

## Manufacturing Tolerances

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

## Edge Treatment

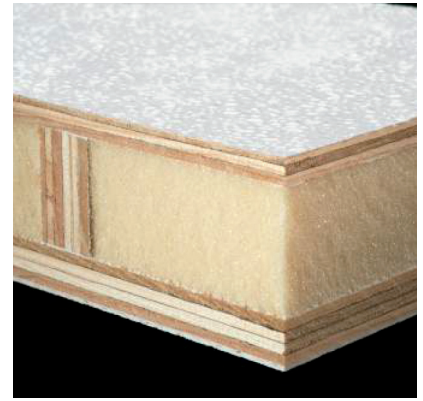
An optional edge coating can be applied to each panel prior to shipment to protect panels in transit, or during temporary storage.

## Interior Scuff

Fiber-Tech offers a molded-in scuff plate, one or two additional layers of glass, to give extra protection against mechanical damage. The option of a bonded FRP scuff is also available.

## Warranty

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



## CLAD TUFF (FRP/plywood) Panel Specifications

Plywood Core	Weight*
3/8" (11/32)	1.5 lb
1/2" (15/32)	1.9 lb
5/8" (19/32)	2.1 lb
3/4" (23/32)	2.5 lb
1" (15/16)	3.1 lb
1-1/4" (1-3/16)	4.0 lb

\* Weight reflects only one layer of 17 oz fiberglass Utilized on the exterior side of the plywood core when it is used to construct a Fiberfoam Panel.

## CLAD Foam Panel Specifications

Thickness	Polyiso	EPS Foam
1.0"	6.59	4.84
1.5"	9.80	7.34
2.0"	13.17	9.84
2.5"	16.50	12.34
3.0"	19.84	14.84
3.5"	23.17	17.34
4.0"	26.50	19.84

\* R factors are computed using data provided by the insulation foam manufacturers. R value of plywood equals approximately 1.56 per inch of total plywood thickness

Specifications are subject to change without notice.

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