



Ceiling Panels

TECHNICAL BULLETIN

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Glasliner Ceiling Panels are made of fiberglass reinforced plastic (FRP).

They are tough, durable, and will not rust, rot, mildew or corrode. High strength-to-weight ratio makes them the right choice for most ceiling applications.

Maximum Sanitation Protection

- Meets USDA Requirements
- Significant cost savings over other materials

Excellent Quality

- Years of dependable performance
- Resin rich surface that is tough & easy to clean
- Meets today's high sanitation standards

Outstanding Cleanability

- Resists moisture
- Cleans with regular detergents and water

Improved Chemical Resistance

- Resists stains
- Rust proof
- Mildew resistant
- Minimum maintenance and never needs painting

GLASLINER CEILING PANELS DEFLECTION POTENTIAL CHART

Identification Code	Nominal Thickness	Color	Surface	Fire Rating	Calculated Deflection Potential	
					2' x 2' Panel (0.6m x 0.6m)	2' x 4' Panel (0.6m x 1.2m)
I300TOS	.100"(2.5mm)	White	Embossed	Class A	0.188" (4.8mm)	0.472" (12.0mm)
I300TOS	.100"(2.5mm)	White	Embossed	Class C	0.132" (3.3mm)	0.330" (8.4mm)

All fiberglass panels are prone to deflection, otherwise known as "sag" or "pillowing", when suspended in a grid system. Room conditions (extreme temperatures and high level humidity) are contributing factors. Insulation on top of panels, and certain lighting conditions can exaggerate the perception of deflection. To minimize warping caused by moisture absorption, the ceiling must be well ventilated to prevent moisture from occurring on back of panels.

APPROVALS & CERTIFICATIONS

- ISO 9002: All Glasteel plants are ISO 9002 Certified
- USDA: All Glasteel Ceiling Panels meet USDA requirements
- ASTM: All Glasteel Ceiling Panels are manufactured according to industry standard ASTM D-3841-97

PANEL SIZES

23 3/4" X 23 3/4"

23 3/4" X 47 3/4"

CODE ACCEPTABILITY, CERTIFICATION

General Purpose (Class C) Glasliner FRP 0.100” (2.5mm) Ceiling Panel

- Meets USDA requirements
- Class C. Flame Spread 200 or less, smoke developed 450 or less (per ASTM E-84 – independent testing laboratory).

SPECIFICATIONS

These panels are manufactured by a continuous process.

COMPOSITION

1. **Reinforcement:** Random chopped fiberglass roving.
2. **Resin Mix:** Unsaturated polyester with fillers and pigments.

FINISHED PANEL QUALITY

1. Panels shall have wear side with a pebble-like embossed finish. Color shall be uniform throughout, as specified. Other colors can be manufactured. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
2. Product quality standards and tolerances for panel weight and thickness shall be set forth in Glasteel’s Quality Control Procedures/Standards.
3. Dimensions shall be as specified on purchase order, subject to the following tolerances:
 - Width:** $\pm 1/8$ ” (3.2 mm)
 - Length:** $\pm 1/8$ ” (3.2 mm) up to 12’ (3.7 m)
 - Squareness:** not more than $1/8$ ” (3.2 mm) out of square

INSTALLATION

Installation of ceiling panels should not begin until building is enclosed, permanent heating and cooling equipment is in operation, and residual moisture from plaster or concrete work has dissipated.

FABRICATING RECOMMENDATIONS

- Note:** Protect your eyes with goggles; cover your nose and mouth with a filter mask when cutting Glasliner panels.
- Hand fabricating:** Drilling – High speed drill bit (60° cutting angle, with 12”-15” clearance) or hole saw.
- Cutting:** Circular saw with reinforced carborundum or carbide-tipped blade.
- Production fabricating:** Use carbide-tipped tools. Straight cuts can be sheared (90° cutting edge with 0.002” [0.05 mm] clearance) or sawed. For irregular cuts, use die punch or band saw.

STORAGE

All Glasteel products should be stored indoors.

PRODUCT LIMITATIONS

Panels will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic paneling may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation. If any portion of material will not provide an acceptable appearance, Glasteel should be notified at once. Upon verification of unacceptability, that portion of material will be replaced by Glasteel. Glasteel’s sole responsibility is for the replacement of defective material but not for labor or other handling or installation expenses.

Near heat source: Glasliner panel products may discolor when installed near a heat source which radiates temperatures exceeding 130°F (55°C) such as cookers, ovens, and deep fryers.

FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS

The numerical flame spread and smoke development ratings are not intended to reflect hazards presented by Glasteel products or any other material under actual fire conditions. These ratings are determined by small-scale tests conducted by Underwriters Laboratories and other independent testing facilities using the American Society for Testing and Materials E-84 test standard (commonly referred to as the “Tunnel Test”). GLASTEEL PROVIDES THESE RATINGS FOR MATERIAL COMPARISON PURPOSES ONLY.

Like other organic building materials (e.g. wood), panels made of fiberglass reinforced plastic resins will burn. When ignited, FRP may produce dense smoke very rapidly. All smoke is potentially toxic. Fire safety requires proper design of facilities and fire suppression systems, as well as precautions during construction and occupancy. Local codes, insurance requirements and any special needs of the product user will determine the correct fire-rated interior finish and fire suppression system necessary for a specific installation.

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents.