

## Product Description

Glasliner Fiberglass Reinforced Polyester (FRP) Ceiling Tiles, manufactured by Glasteel a Division of Stabilit America, Inc. are available in a textured surface, providing ultimate durability, satisfying the most demanding applications. Glasliner FRP panels will not mold, mildew, rot or corrode. Glasliner FRP Ceiling Tiles are engineered to provide durability, easy cleaning and maintenance.

## Purpose

Glasliner FRP Ceiling Tiles are designed for indoors ceiling applications that require a class C fire rating product. Glasliner FRP Ceiling Tiles are advised for Commercial and Industrial use in restaurants, supermarkets, offices, storage areas, restrooms and many other applications. High strength-to-weight ratio makes them the right choice for most ceiling projects.

## Physical Properties - Typical Values

0.100" (inches) Nominal Thickness / 1300 Series		
PROPERTY	TYPICAL VALUE	TEST METHOD
Flexural Strength	8,000 PSI	ASTM D790
Flexural Modulus	6.0 x 10 <sup>5</sup> PSI	ASTM D790
Tensile Strength	8,000 PSI	ASTM D638
Tensile Modulus	9.43 x 10 <sup>5</sup> PSI	ASTM D638
% Elongation	1.20%	ASTM D638
Izod Impact	7.0 ft-lb/in	ASTM D256
COLTE	2.22 x 10 <sup>-5</sup> in/in/°F	ASTM D696
Barcol Hardness	40	ASTM D2583
Sag tolerance	≤ 0.25 in	N/A
Abrasion Resistance	0.293 % Wt. Loss	Taber Test
Water Absorption	0.17% - 72 hr @ 77 °F	ASTM D570
Specific Gravity	1.6138	ASTM D792
Flame Spread	≤ 200	ASTM E84
Smoke Development Index	< 450	ASTM E84



## Selections

NOMINAL THICKNESS	SERIES	FINISH	COLOR	SIZES
0.100" (inches)	1300	Embossed	Bright White	2 ft x 2 ft 2 ft x 4 ft

**\*Custom Capabilities: other sizes and colors are available, minimum order requirements and other terms apply**

## Standard Specifications

Glasliner FRP Ceiling Tiles conform to the specification set on ASTM D5319:

- Flammability Classification: Class C - Flame spread index 76 to 200, smoke development index of 450 or less.
- Thickness classification: Grade 6 - 0.081 to 0.099 in. (2.06 to 2.51 mm); 0.090 in. nominal (2.29 mm) (data valid only for 1300 series panels).
- Size (Length and Width): Specified length and width  $\pm 1/8$  in.
- Squareness:  $\pm 1/8$  in.
- Thickness: Specified thickness  $\pm 10$  %.

**Color:** Panel color shall be per specification. Within 1 dE of the specified color using the CIELab scale.

Panels shall have a pebble texture front side. Panel backside is smooth and may possess slight imperfections that do not adversely affect performance or physical properties and are not cause for rejection.

Panels shall be installed in strict accordance with Glasliner FRP panel Installation Instructions (D-SA-01).

## Approvals and Certifications

- Manufactured on an ISO 9001 Certified plant (TÜV Rheinland of North America, Inc.; Certificate Registration No. 74 300 3629).
- Certified Product under Greenguard and Greenguard Gold criteria (Certificates Number: 23966-410 and 23966-420).
- Meets USDA/FSIS requirements.
- Canadian Food Inspection Agency and Agriculture Canada approved.
- Meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread  $\leq 200$ , smoke developed index 450 or less (per ASTM E84).
- Mold & Mildew Resistant per ASTM D3273 and D3274 tests.

## Storage Recommendations

- Store panels indoors in a cool, dry, well-ventilated area.
- Panels should be stacked on skids not more than 5 skids high.
- Do not allow moisture to collect on or in-between panels.

## Installation Overview

**Safety:** Use eye protection. Wear filter mask to cover nose and mouth, especially when cutting panels.

**Tools Required:** Power saw (carbide tip), saber saw (metal cutting blade), caulking gun, tape measurer, drill, file, hammer, level, saw horses and supports.

**Preparation:** It is important to store Glasliner FRP flat, on a clean, dry surface for 24 hours before installation. It is preferable to store them inside the actual area of installation or, at least, under similar climate conditions. Walls must be clean and free of all substances. Level any high or low spots on walls. Concrete block walls may require a leveling coat of plaster or other similar material.

**Inspection:** Carefully inspect all panels prior to installation. If any portion of material does not provide an acceptable appearance, Stabilit America, Inc should be notified immediately. Upon verification of unacceptability, that portion of material will be replaced by Stabilit America, Inc. Stabilit America, Inc's responsibility is for the replacement of defective materials but not for labor or other handling or installation expenses.

**Limitations:** Glasliner FRP Ceiling Tiles shall maintain its performance characteristics and physical properties in temperatures ranging from -40°F to 130°F. Glasliner FRP panels may discolor near heat sources such as: ovens, fryers, heat lamps and toasters, where temperatures exceed 130°F.

**DISCLAIMER:** Stabilit America Inc., provides these results data for material comparison purposes only. The information offered herein is offered without charge and is accepted at recipient's sole risk. The results expressed of this document pertain only to the specific sample(s) evaluated. Stabilit America, Inc. Testing Laboratory is not a certified testing lab, however all equipment used is calibrated using traceable standards. Because conditions of use vary and are beyond our knowledge and control, Stabilit makes no representation about and is not responsible for the accuracy of data, nor with toxicological effect or industrial hygiene requirements associated with particular uses of any product or process described herein. Stabilit requests that customers test and inspect our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of Stabilit materials only. **FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS:** the numerical flame spread and smoke development ratings are not intended to reflect alleged hazards presented by Stabilit America Inc., products under actual fire conditions and this product has not been tested by Stabilit America, Inc., except as set forth below. These ratings are determined by small-scale tests conducted by independent testing facilities using the ASTM E84 test standard. 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 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.