



Technical Data

Glasliner FRP Panels Wall Panel - Class C – Embossed and Smooth

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1. Product description.

Glasliner Fiberglass Reinforced Polyester (FRP) Wall Panels, manufactured by Stabilit America, Inc. are available in textured and smooth surfaces, provide ultimate durability, satisfying the most demanding applications. Glasliner FRP panels will not mold, mildew, rot or corrode. Glasliner FRP panels are engineered to provide durability, easy cleaning and maintenance.

2. Purpose.

Glasliner FRP panels are designed for indoors wall finishes that require a class C fire rating product. Glasliner FRP Panels are ideal for high traffic areas in Commercial, Industrial and Agro-Industrial applications where durability, hygiene, easy cleaning, easy maintenance and abrasion resistance are required: offices, restaurants, supermarkets, food processing areas, storage areas, car washes, restrooms, and many others.

Glasliner FRP panels also recommended for Residential use like garages, play rooms, bathrooms, laundry rooms, etc.

3. Physical Properties - Typical Values

0.090in Nominal Thickness / 1200 Series		
Property	Value	Test Method
Flexural Strength	17,000 psi	ASTM D790
Flexural Modulus	6.0×10^5 psi	ASTM D790
Tensile Strength	8,000 psi	ASTM D638
Tensile Modulus	9.43×10^5 psi	ASTM D638
% Elongation	1.20 %	ASTM D638
Izod Impact	7.0 ft-lb/in	ASTM D256
Coefficient of Linear Thermal Expansion	2.22×10^{-5} in/in/°F	ASTM D696
Barcol Hardness	30	ASTM D2583
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

4. Selections

Nominal Thickness	Series	Finish	Color ^Δ	Sizes ^Δ
0.120 in	1600	Embossed / Smooth	Bright White Almond Ivory Beige Light Gray Silver Black	4 ft x 8 ft 4 ft x 9 ft 4 ft x 10 ft 4 ft x 11 ft 4 ft x 12 ft
0.090 in	1200			
0.060 in	180			
0.045 in	160			
0.035 in	150			

^ΔCustom Capabilities: other sizes and colors are available, minimum order requirements and other terms apply

5. Standard Specifications

- a) Glasliner FRP panels 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.

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- 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 1200 series panels).
 - Size (Length and Width): Specified length and width $\pm 1/8$ in.
 - Squareness: $\pm 1/8$ in.
 - Thickness: Specified thickness ± 10 %.
- b) Color: Panel color shall be per specification. Within 1 dE of the specified color using the CIE Lab scale.
- c) Panels shall have a pebble texture or smooth 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.
- d) Panels shall be installed in strict accordance with Glasliner FRP panel Installation Instructions (D-SA-01).

6. Approvals and Certifications

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

7. Storage Recommendations


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

8. Installation Overview

- a) Safety: Use eye protection. Wear filter mask to cover nose and mouth, especially when cutting panels.
- b) Tools Required: Power saw (carbide tip), saber saw (metal cutting blade), caulking gun, tape measurer, drill, file, hammer, level, saw horses and supports.
- c) 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.
- d) 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.
- e) Limitations: Glasliner FRP panels 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.



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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.