



# Marlite Symmetrix™ FRP Panels w/ BlueSky™ Advanced Finishing ... Technical Data 2021

## Product

Symmetrix Fiberglass Reinforced Polyester (FRP) Panels provide the same visual appearance as ceramic tile at a minimal cost and without the installation difficulties. Symmetrix features revolutionary BlueSky Advanced Finishing that employs controlled, low-temperature in-line curing and water-based UV-cure coatings. The unique finishing process creates a Symmetrix Panel with excellent durability and sanitary qualities.

## Features & Attributes

- Creates the look of ceramic tile.
- Coated grooves protect against mold and mildew growth, staining, cracking and discoloration.
- Fiberglass core provides outstanding impact resistance.
- Panels are quick and easy to install.
- Wipes clean easily with standard cleaning solutions.

## Applications & Uses

Healthcare Facilities  
 Schools & Universities  
 Restaurants  
 Hotels & Casinos  
 Houses of Worship  
 Transportation Terminals  
 Office & Residential Buildings  
 Fitness Centers & Spas  
 Grocery, Convenience & Drug Stores  
 Residential

Dining Rooms  
 Patient Rooms  
 Fitness Rooms  
 Kitchens  
 Restrooms  
 Merchandising Displays  
 Service Counters  
 Hallways & Corridors  
 Bathrooms  
 Laundry & Mud Rooms

## Physical Properties

Property	ASTM Procedure	Typical Value
Flexural Strength (psi)	D790	0.9 x 10 <sup>4</sup>
Flexural Modulus (psi)	D790	6.0 x 10 <sup>6</sup>
Tensile Strength (psi)	D638	11.5 x 10 <sup>3</sup>
Tensile Modulus (psi)	D638	.45 x 10 <sup>6</sup>
Barcol Hardness	D2583	28
Izod Impact Strength	D256	6.0
Thermal Coefficient of Lineal Expansion (in/in/F)	D696	2.22 x 10 <sup>-5</sup>
Water Absorption (%)	D570	.15
Specific Gravity	D792	1.8
Cross-cut Adhesion	D3359	0 removed
Adhesion	D2197	5 Kg
Mold & Mildew	D3273	passed

## Panel Specifications

1. Marlite FRP Panels are manufactured using a homogenous mixture of calcium carbonate, fiberglass and resin.
2. Panels shall have a smooth texture front side. Panel color shall be per specification. Panel backside is smooth and may possess slight imperfections that do not adversely affect performance or physical properties and are not cause for rejection.
3. Panel quality standards are:  
**Panel thickness:** .090" +/- 10%  
**Width:** 48" +/- 1/8"  
**Length:** specified length +/- 1/8"  
**Diagonals:** not to exceed 1/8" for 8' panels or 5/32" for 10' panels
4. Panels shall be installed in strict accordance with Marlite FRP Installation Instructions.

## Approvals & Certifications

- Class II/B & Class III/C Fire Ratings per ASTM E-84 flame spread and smoke development tests  
ASTM D3273-16 Resistant to Mold Growth
- Meets USDA/FSIS requirements

## Storage & Preparation

Carefully inspect all panels prior to installation. Notify Marlite at once if panels are deemed unacceptable. Marlite FRP Panels should be stored indoors on a flat, clean, dry surface for at least 24 hours prior to installation. Room and material (panels and adhesive) temperature should both be at or near 70°F at the time of installation. Marlite FRP is intended to be installed over unfinished, untreated plywood or unfinished, untreated drywall. Contact Marlite prior to installing over other substrates.

## 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 measure, drill, file, hammer, level, saw horses and supports.

*See Marlite FRP Installation Instructions for complete details.*

## Accessories

- Marlite PVC Trim Molding with integral, matching colors, 8' & 10' lengths.
- Marlite Aluminum Trim Molding with integral, matching colors, 8' lengths.
- Color matching silicone sealant, 10oz cartridges.
- Marlite Stainless Steel and PVC Outside Corner Guards, 8' & 10' lengths.
- Marlite PVC Base Molding, 10' lengths.
- C-551 Marlite FRP Adhesive or C-915 Marlite Construction Adhesive
- MS-250 Clear & MS-251 White Marlite Silicone Sealant

## Serviceable Temperature Range

Marlite Symmetrix FRP Panels are intended for indoor use only. Marlite FRP may discolor near heat sources – such as ovens, fryers, heat lamps and toasters.

## Cleaning Guidelines

When a regular cleaning schedule is executed, soil and dirt will not build up. A mild, non-abrasive cleaner is effective.

## For Additional Information, see:

[www.marlite.com](http://www.marlite.com)

**Marlite FRP Brochure**

**Marlite BlueSky Advanced Finishing Brochure**

**CSI Specifications – Decorative FRP Panels**

**Marlite FRP Installation Instructions**

**Marlite FRP Cleaning Instructions**

**Marlite**

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