



www.marlite.com

# Technical Data

2019

## Marlite FRP – Pebbled Texture & Smooth Class “III/C” Wall Panel

### Product

Marlite Fiberglass Reinforced Plastic (FRP) Wall Panels, available in textured and smooth surfaces, provide ultimate durability, satisfying the most stringent demands. Marlite FRP is tough, water-resistant, economical to install and easy to maintain.

### Features & Attributes

Tough surface resists stains, chemicals, scratches and abrasions and possesses high impact strength.

Moisture resistant surface makes the panel ideal for wet environments and does not support the growth of mold or mildew.

Panels are quick and easy to install and can be simply sprayed and wiped clean.

### Applications & Uses

Marlite FRP is ideal for use in kitchens, restrooms, laundries, laboratories and many other service areas in restaurants, supermarkets, convenience stores, hotels and motels, health care facilities, day care centers, food processing plants, correctional facilities, refrigerated warehouses, car washes and agricultural facilities.

Flame Spread ≤200

Smoke Developed ≤450

### FRP Panels

Standard Items	Available Sizes	Harmonizing Molding	Suggested Adhesive / Sealant	Packaging & Weight
FRP P100 White	4' x 8' 4' x 9' 4' x 10' .090" nominal panel thickness	P100	C915 or C551 or Titebond Advanced Polymer Panel Adhesive / MS250 or MS251	32 sq ft / 20# per pc 36 sq ft / 23# per pc 40 sq ft / 25# per pc
FRP P106 Beige *		P106		
FRP P118 Natural Almond		P118		
FRP P140 Ivory		P140		
FRP P145 Silver		P145		
FRP P151 Light Grey		P151		
FRP P199 Bright White		P100		
FRP P807 Black **		P807		
FRP P460N Light Yellow***		P460N		
FRP P470N Dark Grey		P470N		
FRP P400N Red		P400N		
FRP P410N Brown		P410N		
FRP P420N Blue		P420N		
FRP P430N Medium Grey		P430N		
FRP P440N Biscuit		P440N		
FRP P450N Maroon		P450N		

\*available in 4' x 10' only. \*\* Not stocked in 4'x9'

\*\*\*Stocked in 4x8 sheets

### Smooth FRP Panels

Standard Items	Available Sizes	Harmonizing Molding	Suggested Adhesive / Sealant	Packaging & Weight
FRP S100G White	4' x 8' 4' x 10' .090" nominal panel thickness	PVC P100	C915 or C551 or Titebond Advanced Polymer Panel Adhesive / MS250 or MS251	4' x 8' 32 sq ft / 20# per pc 4' x 10' 40 sq ft / 25# per pc
FRP S118G Almond		PVC P118		
FRP S100 S/2/S White*		PVC P100		
FRP S490N Light Grey***		PVC P151		

## Physical Properties

Property	ASTM Procedure	Typical Value
		Marlite FRP
Flexural Strengths (psi)	D790	1.7 x 10 <sup>4</sup>
Flexural Modulus (psi)	D790	6.0 x 10 <sup>5</sup>
Tensile Strengths (psi)	D638	8.0 x 10 <sup>3</sup>
Tensile Modulus (psi)	D638	9.43 x 10 <sup>5</sup>
Barcol Hardness	D2583	40
Izod Impact Strengths (ft #/in)	D256	7.0
Thermal Coefficient Of Lineal Expansion (in/in/F)	D696	1.6 x 10 <sup>-5</sup>
Water Absorption (%)	D570	.17
Specific Gravity	D792	1.53
Fire Ratings	E-84	Class III/C
Flame Spread		≤200
Smoke Generation		≤450
CAN/ULC Fire Ratings	S102-M88	
Flame Spread		90
Smoke Generation		190

## Panel Specifications

- Marlite FRP Panels are manufactured using a homogenous mixture of calcium carbonate, fiberglass and resin.
- Panels shall have a pebble texture or 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.
- Panel quality standards are (complies with ASTM D5319):
  - Panel thickness:** .090" +/- 10%
  - Width:** 48" +/- 1/8"
  - Length:** specified length +/- 1/8"
  - Squareness:** not to exceed 1/8" for 8' panels or 5/32" for 10' panels.
- Panels shall be installed in strict accordance with Marlite FRP Installation Instructions.

## Approvals & Certifications

Class III/C Fire Ratings per ASTM E-84 flame spread and smoke development tests  
 Meets USDA/FSIS requirements  
 Canadian Food Inspection Agency and Agriculture Canada approved  
 ICC Report #ER-5489  
 Mold & Mildew Resistant per ASTM D3273-94 and D3274-95 tests

## 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 measurer, 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 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 FRP Panels shall maintain its performance characteristics and physical properties in temperatures ranging from -40°F to 130°F. Marlite FRP may discolor near heat sources – such as ovens, fryers, heat lamps and toasters – where temperatures exceed 130°F.

## Marlite Pebbled Texture Advantage

Marlite FRP Panels feature a unique pebble texture that offers cleaning advantages over the cracked ice texture used in other manufacturers' FRP panels. These advantages are attributed to the less dramatic peaks and valleys of the Marlite FRP texture. (Per NEMA LD3-1991 Stain Test)

## 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 Panels Color Brochure**  
**Marlite FRP CSI Specifications**  
**Marlite FRP Installation Instructions**  
**Marlite FRP Cleaning Instructions**



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