



www.marlite.com

# Technical Data

2009

## 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.

### Product Identification

#### FRP Panels

Flame Spread <200  
Smoke Developed <450

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	C375 or C551 / 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		

\*available in 4' x 10' only.

#### Smooth FRP Panels

Flame Spread <200  
Smoke Developed <450

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	C375 or C551/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		

## 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>3</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:
  - 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
- Factory Mutual tested and listed

## 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-375 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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Form FR20-04081