Special-Lite®

SpecLite 3® FRP
Technical Data

SpecLite 3® FRP Standard Colors

PRODUCT CODE: REI

CLASS C FIRE RATING PER ASTM E-84

DESCRIPTION

REI with SpecLite 3® is a durable, semi-rigid material of fiberglass reinforced plastic (FRP). It is tough, hard, dimensionally stable and modified for exterior use. It will not mildew, rot, or corrode. REI exhibits a high strength-to-weight ratio.

SPECLITE 3® FINISH

SpecLite 3® is a unique surface treatment that, when compared to ordinary FRP, exhibits up to ten times more cleanability, six times the stain resistance and twice the abrasion resistance.

APPLICABLE PRODUCTS:

- SL-17 Pebble Grain Hybrid FRP Door
- AF-217 Composite Fiberglass Door
- SLI-17FR FireSafe20 Door
- SL-17FR FRP/Stainless Steel Fire-Rated Door
- AF-217FR Fiberglass Fire-Rated Door
- AF-217BR³ Ballistic Fiberglass Door
- SL-37 Pebble Grain FRP Panel
- SL-484 Midpanel for Monumental Doors with Pebble Grain FRP

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	FINISH	COLOR				AVAILABLE SIZES
REI	0.12" | 3.0 mm	Pebble Grain Embossed	White	29	Beige	68	36"-48" and 80"-96" x 5'-500' 0.9m-1.2m and 2.0m-2.4m x 1.5m-152.4m
			Green	35	Hartford Green	38	
			Blue	46	Military Blue	41	
			Light Grey	60	Slate Grey	59	
			Dark Grey	65	Desert Sand	66	
			Bronze	72	Seawolf	59	
			Red	92	Boysenberry	93	
			Black	96			

TYPICAL PHYSICAL PROPERTIES

PROPERTY	REI	TEST METHOD
FLEXURAL STRENGTH	20.5 x 10^3 psi | 141 MPa	ASTM - D790
FLEXURAL MODULUS	0.7 x 10^6 psi | 4826 MPa	ASTM - D790
TENSILE STRENGTH	13.2 x 10^3 psi | 91 MPa	ASTM - D638
TENSILE MODULUS	1.3 x 10^6 psi | 8963 MPa	ASTM - D638
BARCOL HARDNESS	45	ASTM - D2583
IZOD IMPACT	14.0 ft-lb/in notched | 0.75 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.3 x 10^{-5} 10/10/°F | 23 µm/m/°C	ASTM - D696
GARDNER IMPACT STRENGTH	120 in-lb | 14.0 J	ASTM - D5420
WATER ABSORPTION	0.20%/24hrs @77°F | 25°C	ASTM - D570
SURFACE BURNING CHARACTERISTICS	Class C	ASTM - E84

SpecLite 3® FRP Bathroom Partition Basic Grade

PRODUCT CODE: PIF

CLASS C FIRE RATING PER ASTM E-84

DESCRIPTION

PIF with SpecLite 3® is made of fiberglass reinforced plastic. PIF is a durable, flexible building material and will not mold, mildew, rot or corrode. It exhibits excellent resistance to mild chemicals and moisture. The panel has a Class C rating for flame spread and smoke development when tested per ASTM E-84. PIF embossed panels are designed for interior wall finishes where a Class C, sanitary, easy-to-clean panel is desired.

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APPLICABLE PRODUCTS:

Special-Lite® Bathroom Partitions

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	FINISH	COLOR		AVAILABLE SIZES
PIF	0.090" | 2.3 mm	Embossed	Colonial White	83	4' x 8' | 4' x 9' | 4' x 10' | 4' x 12' 1.2 m x 2.4 m | 1.2 m x 2.7 m | 1.2 m x 3.0 m |1.2 m x 3.7 m
			Pearl Gray	48	
			Soft Beige	70	

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PIF	TEST METHOD
FLEXURAL STRENGTH	8.6 x 10^3 psi | 59 MPa	ASTM - D790
FLEXURAL MODULUS	0.44 x 10^6 psi | 3034 MPa	ASTM - D790
TENSILE STRENGTH	4.6 x 10^3 psi | 32 MPa	ASTM - D638
TENSILE MODULUS	0.75 x 10^6 psi | 5171 MPa	ASTM - D638
BARCOL HARDNESS	27	ASTM - D2583
IZOD IMPACT	11.0 ft-lb/in notched | 0.59 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.6 x 10^{-5} 10/10/°F | 29 µm/m/°C	ASTM - D696
GARDNER IMPACT STRENGTH	30 in-lb | 3.4 J	ASTM - D5420
WATER ABSORPTION	<0.16%/24hrs @77°F | 25°C	ASTM - D570
SURFACE BURNING CHARACTERISTICS	Class C	ASTM - E84
TABER ABRASION RESISTANCE (cs-17 wheels, 1000g. Wt, 25 cycles)	0.01%Max Wt. Loss	Taber Test

SpecLite 3® FRP Bathroom Partition Standard Grade

PRODUCT CODE: REI

CLASS C FIRE RATING PER ASTM E-84

DESCRIPTION

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SPECLITE 3® FINISH

SpecLite 3® is a unique surface treatment that, when compared to ordinary FRP, exhibits up to ten times more cleanability, six times the stain resistance and twice the abrasion resistance.

APPLICABLE PRODUCTS:

Special-Lite® Bathroom Partitions

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	FINISH	COLOR	AVAILABLE SIZES
REI	0.090" | 2.3 mm	Embossed	Black 96	36"-48" and 80"-96" x 5' - 500' 0.9m-1.2m and 2.0m-2.4m x 1.5m-152.4m

TYPICAL PHYSICAL PROPERTIES

PROPERTY	REI	TEST METHOD
FLEXURAL STRENGTH	16.4 x 10^3 psi | 113 MPa	ASTM - D790
FLEXURAL MODULUS	0.6 x 10^6 psi | 4136 MPa	ASTM - D790
TENSILE STRENGTH	11.0 x 10^3 psi | 75 MPa	ASTM - D638
TENSILE MODULUS	1.1 x 10^6 psi | 7584 MPa	ASTM - D638
BARCOL HARDNESS	50	ASTM - D2583
IZOD IMPACT	18.5 ft-lb/in notched | 0.99 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.3 x 10^{-5} 10/10/°F | 23 µm/m/°C	ASTM - D696
GARDNER IMPACT STRENGTH	100 in-lb | 11.3 J	ASTM - D5420
WATER ABSORPTION	0.20%/24hrs @77°F | 25°C	ASTM - D570
SURFACE BURNING CHARACTERISTICS	Class C	ASTM - E84

COMPOSITION

Reinforcement: Random chopped fiberglass.
Resin Mix: Polyester/styrene copolymer, inorganic fillers, and pigments.

FINISHED PANEL QUALITY

1. Panels shall have a wear side with a pebble-like embossed finish (FXE, FX, PIF, FTSTF, CGI, PWI, PCI, FTSTF/FTSTJ, FX/CGPF, LPCE, FRFRJ/FX) OR
   matte embossed finish (RE/RE*, REI)
   Color shall be uniform throughout as specified.

   The backside shall be smooth. The backside surface may have some variations which do not affect functional properties and are not cause for rejection.
2. Physical properties shall be as set forth on preceding pages.
3. Dimensions shall be as specified on purchase order, subject to the following tolerances:
   WIDTH: ±1/8" (±3.2 mm)
   LENGTH: ±1/8" (±3.2 mm) up to 12' (3.7 m)
   SQUARENESS: ±1/8" (3.2 mm) in 48" (1.2 m) of width
4. Product quality standards and tolerances for panel weight and thickness shall be as set forth in Valto's Quality Control Procedures/Standards which are available on request.
5. Panels shall be installed in accordance with manufacturer's guidelines as set forth in the Valto Installation Guide (Form #6876).

CERTIFICATIONS

1. Meets USDA/FSIS requirements.
2. Some products have been tested and meet the requirements FMVSS 302. For a list of products that have been tested to this requirement, see test reports at valtoem.com/support/resources/test-reports/
3. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).
4. Meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread ≤ 200, smoke developed ≤450 (per ASTM E-84).
   PIF, FTSTF, PSIF, CGI, PWI, RE/RE*, REI, STC/SSTC/LBCLN/FTBB, SMXGJ/MXGCJ, FTSTF/FTSTJ, FSQF, FX/CGPF, LPCE, IPSA/IPSC/IPCN
5. HACCP Certified. Glasbord panels are suitable for use in food and beverage facilities that operate in accordance with a HACCP based Food Safety Program | FSFM, FSI, FX, FXE, PIF, PSIF, PWI, PWIP
6. This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #15955-410) greenguard.org. | Glasbord



Technical Data provided by VALTO ENGINEERED MATERIALS.
Special-Lite is proud to partner with VALTO ENGINEERED MATERIALS who engineered SpecLite 3® FRP—a proprietary product also referred to as Glasbord with Surfaseal.
valtoem.com

FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS
The numerical flame spread and smoke development ratings are not intended to reflect alleged hazards presented by Valto products under actual fire conditions and this product has not been tested by Valto except as set forth below. These ratings are determined by small-scale tests conducted by Underwriters Laboratories and other independent testing facilities using the American Society for Testing and Materials E-84 test standard (commonly referred to as the "'Tunnel Test"').
VALTO PROVIDES THESE RATINGS FOR MATERIAL COMPARISON PURPOSES ONLY. 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. We believe all information given is accurate, without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents. www.astm.org/Standards/E84.htm.

A global leading provider of resilient wall and ceiling coverings. Kemlite® was established in 1954; the company changed names to Crane Composites in 2007, and again to Valto Engineered Materials in 2025. Valto is headquartered in Channahon, IL and all our products are manufactured in the United States. We work with hundreds of distributors, ensuring our products are easily accessible and readily available to our customers.

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