



Crane Composites Translucent Fiberglass Reinforced Plastic Panels

Product: **Profiled SunStrong™ PRS High Strength**

Weight: 8 oz.

Generic: ***STW (***) represents the profile drawing #)

Form 6875
6/06

1.0 DESCRIPTION

Crane Composites SunStrong curtainwall panels use an advanced polymer resin system with superior U.V. screening agents and color stabilizers. SunStrong panels maintain excellent color stability. The surface is aesthetically pleasing, either smooth (standard) or textured, free of wrinkles and other defects. Panels are suitable for use as a permanent exterior or interior material that may be exposed to the elements in a wide variety of climates. The configuration conforms to the shapes, dimensions and tolerances as shown.

2.0 PHYSICAL CHARACTERISTICS

- 2.1 The advanced polymer frp panels are shatter resistant, U.V. stabilized, and fiberglass reinforced.
- 2.2 The color will remain consistent indicated by a nominal standard.
- 2.3 The nominal light transmission factor shall have a tolerance of +/-5% when tested in accordance to ASTM E972.
- 2.4 Tolerance on the specified weight of panels shall be +/-10%, unless otherwise specified.
- 2.5 Tolerances on panel dimensions shall be as follows unless otherwise requested:
 - Width.....+/-1/8"
 - Length.....+/-1/8"
 - Squareness.....+/-1/8"
 - Pitch (over-all).....+/-1/8"
 - Rib Height.....+/-1/16"

3.0 APPROVALS

Crane Composites panels meet or exceed applicable requirements of the following standards:

- 3.1 ASTM D3841, Standard Specification for Glass Fiber Reinforced Polyester Plastic Panels.
- 3.2 Code requirements of most state, county and municipal building departments.
- 3.3 UL 90 (Recognized Component Manufacturer).

4.0 ENGINEERING PROPERTIES

NOTE: Physical properties are provided for comparison purposes only. Specific values may vary with resin formulation, glass content and thickness.

Property	Test Method	Typical Value
Flexural Strength	ASTM D790	30,000 psi
Flexural Modulus	ASTM D790	900,000 psi
Tensile Strength	ASTM D638	25,000 psi
Tensile Modulus	ASTM D638	1,500,000 psi
IZOD Impact	ASTM D256	16.5 ft-lb
Barcol Hardness	ASTM D2583	40 min.
Coefficient of Linear Thermal Expansion	ASTM D696	1.8 x 10 ⁻⁶ in/in/°F
Water Absorption	ASTM D570	.20%
Flash Ignition Temperature	ASTM D1929	>770° F
Spontaneous Ignition Temperature	ASTM D1929	> 878° F
Thermal Conductivity	ASTM C518-98	0.1475 Btu-in/°F-ft ² -hr
Average Burn Rate	ASTM D635	< 1.0 in/min.
Building Code Classification	ASTM D635	CC2
Taber Abrasion	Taber Test: CS-17 Wheels, 1000g weight, 100 cycles.	0.10%
Light Transmission	ASTM E972	405 White - 36%
Flame Spread	ASTM E84	55
Smoke Development	ASTM E84	250

5.0 CAUTIONS & SAFETY WARNINGS

5.1 FIRE RESISTANT COMPARISONS

References to flammability of SunStrong frp panels reflect laboratory tests which compare burning characteristics of building products. These references do not imply that the panels will not burn. Flash temperatures as low as 700°F can ignite them. All fiberglass panels will burn under proper conditions and certainly in a full scale fire. Once ignited, they may burn rapidly, releasing dense smoke. For appropriate precautions, request "Fire Safety Guidelines for Use of FRP Panels", Society of the Plastics Industry.

5.2 DO NOT WALK ON PANELS.

Crane Composites frp panels are not intended to support the undistributed weight of workers. Roofing ladders or 1"x 12" planks, or equivalent means of protection must be used during any work on roofs. Provide fall protection in accordance with OSHA standard 29 CFR 1910 [see paragraph 1910.23(a)(4) and (e)(8)]. Compliance with this regulation as well as any other local, state or federal safety requirements is the responsibility of the building owner, contractor and/or erector.

6.0 STORAGE RECOMMENDATIONS

Store panels properly. While a single panel easily withstands exposure to sunlight and the elements, a stack of panels will trap heat and moisture, causing internal clouding in the panels. To avoid this irreversible effect, panels must be stored in a dry, shaded, well ventilated area. Preferably, store on end or on edge. Skids should be elevated at one end by wood spacers. Failure to comply with recommended storage procedures will void the warranty on the panels.

7.0 MAINTENANCE INSTRUCTIONS

To preserve appearance of weather exposed panels, hose down periodically to remove accumulated, corrosive, dust and dirt. At first signs of surface dullness, rinse panels clean, allow to dry and apply a surface refinisher.

We believe all information given is accurate. It is offered in good faith, but 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.

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