

ICC-ES Evaluation Report

ESR-2026

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DIVISION: 08—DOORS AND WINDOWS
Section: 08840—Plastic Glazing**DIVISION: 13—SPECIAL CONSTRUCTION**
Section: 13120—Pre-Engineered Structures**REPORT HOLDER:****CRANE COMPOSITES, INC.**
23525 WEST EAMES STREET
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jcarr@cranecomposites.com
www.cranecomposites.com**EVALUATION SUBJECT:****DURALITE®; DURALITE® HIGH STRENGTH;
SUNSTRONG™ PRS; SUNSTRONG™ PRS HIGH
STRENGTH; SUNSTRONG™ PRS CURTAINWALL;
SUNSTRONG™ PRS CURTAINWALL HIGH STRENGTH;
AND ISO-TUFF FIRE RATED HIGH STRENGTH
FIBERGLASS REINFORCED PLASTIC PANELS****1.0 EVALUATION SCOPE****Compliance with the following code:**2006 *International Building Code*® (IBC)**Property evaluated:**

Light-transmitting plastic

2.0 USES

The fiberglass reinforced plastic (FRP) panels recognized in this report comply with the requirements for light-transmitting plastics in IBC Section 2606.4. End use of the FRP panels is outside the scope of this report, thereby requiring compliance with the IBC requirements applicable to the end use (such as, but not limited to, structural and durability performance). Such compliance must be demonstrated to the code official.

3.0 DESCRIPTION

Duralite®, Duralite® High Strength, SunStrong™ PRS, SunStrong™ PRS High Strength, SunStrong™ PRS Curtainwall, SunStrong™ PRS Curtainwall High Strength and ISO-Tuff Fire Rated High Strength FRP panels are manufactured in a variety of profiles and a range of weights. The FRP panels consist of glass fiber reinforcement embedded within a polyester resin. The FRP

panel weights, thicknesses and plastic classifications are provided in Table 1.

3.1 Duralite®:

A translucent or opaque corrugated FRP panel produced in a variety of different corrugations and manufactured in three weights. The FRP panel consists of an acrylic modified orthophthalic polyester resin and multidirectional chopped strand glass fiber reinforcement.

3.2 Duralite® High Strength:

A translucent or opaque corrugated FRP panel produced in a variety of different corrugations and manufactured in five weights. The FRP panel consists of an acrylic modified orthophthalic polyester resin with a combination of bidirectional woven roving and chopped strand glass fiber reinforcement.

3.3 SunStrong™ PRS:

A translucent corrugated FRP panel produced in a variety of different corrugations and manufactured in one weight. The FRP panel consists of a polymer resin with glass fiber reinforcement.

3.4 SunStrong™ PRS High Strength:

A translucent corrugated FRP panel produced in a variety of different corrugations and manufactured in one weight. The FRP panel consists of a polymer resin with a combination of bidirectional woven roving and chopped strand glass fiber reinforcement.

3.5 SunStrong™ PRS Curtainwall:

A translucent flat FRP product produced in two thicknesses. The FRP panel consists of a polymer resin with glass fiber reinforcement.

3.6 SunStrong™ PRS Curtainwall High Strength:

The same formulation as SunStrong PRS Curtainwall, but incorporates a woven reinforcement.

3.7 ISO-Tuff Fire-rated High Strength:

A translucent or opaque corrugated FRP panel produced in a variety of different corrugations and manufactured in five weights. The FRP panel consists of a brominated isophthalic resin with a combination of bidirectional woven roving and chopped strand glass fiber reinforcement.

4.0 INSTALLATION

Use of the FRP panels is limited to applications permitted by Chapter 26 of the IBC for light-transmitting panels.

5.0 CONDITIONS OF USE

The Crane Composites, Inc., FRP panels described in this report comply with, or are suitable alternatives to what is specified in, the code indicated in Section 1.0 of this report, subject to the following conditions:

- 5.1 This FRP panels are manufactured and identified as described in this report and the IBC.
- 5.2 End use of the FRP panels requires justification of compliance with the appropriate code requirements, including structural and durability considerations, with the justification submitted to the code official for approval.

6.0 EVIDENCE SUBMITTED

- 6.1 Reports of testing in accordance with ASTM D 635, ASTM D 1929 and ASTM E 84.
- 6.2 A quality control manual.

7.0 IDENTIFICATION

Each FRP panel described in this report shall be identified by a label bearing the manufacturer's name (Crane Composites, Inc.); manufacturing plant location (Florence, Kentucky); product name; date of manufacture; plastic sheet weight and/or thickness; plastic classification (CC1 or CC2); and the evaluation report number (ESR-2026).

TABLE 1—MATERIAL DESCRIPTIONS AND PLASTIC CLASSIFICATIONS

PANEL SERIES	NOMINAL WEIGHT (ounces per square foot $\pm 10\%$)	NOMINAL THICKNESS (inch)	PLASTIC CLASSIFICATION
Duralite®	8, 10 or 12	N/A	CC2
Duralite® High Strength	8, 10, 12, 14 or 16	N/A	CC2
SunStrong™ PRS	8	N/A	CC2
SunStrong™ PRS High Strength	8	N/A	CC2
SunStrong™ PRS Curtainwall	N/A	0.07, 0.09	CC2
SunStrong™ PRS Curtainwall High Strength	N/A	0.07	CC2
ISO-Tuff Fire Rated High Strength	8, 10, 12, 14 or 16	N/A	CC1

For **SI**: 1 inch = 25.4 mm, 1 ounce/square foot = 305.1 g/m².