



# Product Evaluation

CWSF47 | 0516

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** CWSF-47

**Effective Date:** May 1, 2016

**Re-evaluation Date:** November 2016

**Product Name:** Series RD-SI5200, Aluminum Fixed Curtain Wall, Impact Resistant

**Manufacturer:** Solar Innovations, Inc.  
31 Roberts Road  
Pine Grove, PA 17963  
(570) 915-1500

### General Description:

System	Description	Label Rating	Design Pressure Rating
1 (5742)	Series RD-SI5200, Aluminum Fixed Curtain Wall (120" x 120"), Impact; O // O/O	ASTM E 330-02 ASTM E 1886-05 ASTM E 1996-09 Missile Level D	+65 / -65 psf

### Product Dimensions:

System	Overall Frame Size	Left Fixed Lite Size	Top Right Fixed Lite Size	Top Right Fixed Lite Size
1	120" x 120"	116" x 57"	57" x 57"	57" x 57"

**Product Identification (Certification Agency Label on the Frame):**

System		
1	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Solar Innovations, Inc.
	Product Name	<u>System 1</u> : RD-SI5200 Aluminum Fixed Curtain Wall
	Test Standards	ASTM E 330-10 ASTM E 1886-05 / ASTM E 1996-09 Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**Installation:**

**General:** The assembly must be installed in accordance with the manufacturer's installation instructions and this product evaluation. Detailed drawings and installation instructions are available from the manufacturer.

**Design Drawings:** The aluminum folding glass wall systems must be installed in accordance with following listed drawings. The listed drawings will be referred to as the approved drawings in this evaluation report:

System	Design Drawings
1 (5742)	Drawing No. 08-02660, titled "SI5200 Aluminum Fixed Curtain Wall 60" x 120" Panel", Sheets 1-8, dated March 24, 2015, signed and sealed by Luis R. Lomas, P.E., on March 24, 2015.

**Wall Framing Construction:** The glass wall panel system may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 3,192 psi)
- Wood dimension lumber (minimum Spruce-Pine-Fir,  $G \geq 0.42$ )
- Masonry (ASTM C-90, Grade N, Type 1 or greater)
- Steel (18 gauge, 33 ksi)
- Aluminum (6063-T5, 1/8" thick minimum)

**Installation:**

- Doors are installed in accordance with the approved drawings.
- The approved drawings indicate the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.