

# TEXAS DEPARTMENT OF INSURANCE

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**PRODUCT EVALUATION**  
 WIN-1409

Effective Date: June 1, 2012 (Revised November 1, 2013)  
 Reevaluation Date: **November 2015**

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.

**ES5000CW Vinyl Casement Windows, Replacement, Non-Impact Resistant**, manufactured by

**Four Seasons Solar Products LLC**  
 5005 Veterans Memorial Highway  
 Holbrook, New York 11741  
 Telephone: (631) 563-4000

**General Description:**

System	Description	Label Rating	Design Pressure Rating
1	ES5000CW Vinyl Casement Window	CW-PG60 32 x 60-C	± 60 psf
2	ES5000CW Vinyl Casement Window	CW-PG60 36 x 72-C	± 60 psf

**Product Dimensions:**

System	Overall Size	Vent Size
1	32" x 60"	30 <sup>5</sup> / <sub>8</sub> " x 58 <sup>7</sup> / <sub>16</sub> "
2	36" x 72"	34 <sup>5</sup> / <sub>8</sub> " x 70 <sup>1</sup> / <sub>2</sub> "

**Product Identification:**

System		
1	Certification Agency	AAMA
	Manufacturer's Name or Code Name	FS-1
	Product Name	ES-5000 Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08
2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Four Seasons Solar
	Product Name	ES-5000 Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08

**Impact Resistance:**

Impact Resistant	Requirement
No	Impact protective system required when product is installed in areas where windborne debris protection is required

**Installation:**

**System 1:** The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using the window frame. The window frame is secured to the wall framing with minimum No. 8 x 1 ½" screws. Along the head and the sill, the fasteners are located approximately 4 inches from each corner. Along the side jambs, the fasteners are located approximately 4 inches from each corner and one at the mid-span. At the mid-span of the head, sill, and side jambs, a 1 ½" x 8" x 0.035" steel strap secures the window frame to the wall framing. The strap is secured to the wall framing with two No. 8 screws and to the window frame with one No. 6 x ½" screw. All fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members.

**System 2:** The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using the window frame. The window frame is secured to the wall framing with minimum No. 10 x 1 ½" screws. The fasteners are located 4" from end of the jambs and at midspan. All fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.