

# TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104  
Phone No. (512) 322-2212 Fax No. (512) 463-6693

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## PRODUCT EVALUATION WIN-1508

Effective January 1, 2012

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 shall be subject to reevaluation **July 2013**.

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.

**Series ES 5000 Vinyl Single Hung Windows, Non-impact Resistant**, manufactured by

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

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

This product evaluation report is for vinyl single hung windows based on the following tested constructions:

### General Description:

System	Description	Label Rating
1	Series ES 5000 Vinyl Single Hung Window; (O/X)	H-R50 44x63

### Product Dimensions:

System	Overall Size	Sash Size	Fixed Daylight Opening Size
1	44" x 63"	41 $\frac{1}{16}$ " x 30 $\frac{3}{4}$ "	39 $\frac{1}{4}$ " x 27 $\frac{7}{8}$ "

### Glazing Description:

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

IG-1: Each window sash contains a sealed insulating glass unit. The sealed insulating glass unit in the tested assembly is comprised of two lites of double strength ( $\frac{1}{8}$ " ) clear annealed glass separated by an aluminum box spacer system.

**Glazing Method Key:**

GM-1: The glass is set from the interior against a bed of silicone and secured with snap-on extruded vinyl glazing beads.

**Frame Construction:** The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction.

**Sash Construction:** The sash members are manufactured from extruded vinyl (PVC). The sash corners are mitered and welded construction.

**Reinforcement:** The fixed meeting rail and sash members utilize steel reinforcement.

**Product Identification:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code (**FS-1**); product name: **Series ES-5000 SH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05.

**LIMITATIONS**

**Design pressures (DP):**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	44	63	$\pm 50$

**Impact Resistance:** These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

**Acceptance of Smaller Assemblies:** Windows assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

**INSTALLATION INSTRUCTIONS**

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

**Installation:** The window frame shall be fastened to minimum Spruce-Pine-Fir dimension lumber. The window is secured to the wall framing using the window frame with minimum No 8 screws. The fasteners are required along the frame side jambs. The fasteners shall be spaced approximately 3 inches from each corner and located at midspan. The fasteners shall be long enough to penetrate a minimum of  $1\frac{1}{2}$  inches into the wall framing. Continuous  $1\frac{1}{2}$  inch x  $\frac{3}{4}$  inch wood blind stops are installed around the exterior perimeter of the window with No. 8 x 2 inch long drywall screws located 3" from each corner and spaced 12 inches on center.

**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.