

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

WIN-1410

Effective Date: May 1, 2012

Reevaluation Date: **February 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.

ES5000DH Vinyl Double Hung Windows, Replacement Construction, 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	ES5000DH Vinyl Double Hung Window	H-R45 44 x 63	± 45
2	ES5000DH Vinyl Double Hung Oriel Window	H-R45 40 x 72 R-PG45 40 x 72-H	± 45
3	ES5000DH Vinyl Double Hung Window	R-PG50 40 x 63	± 50

Product Dimensions:

System	Overall Size	Bottom Sash Size	Top Sash Size
1	44" x 63"	42" x 30 ³ / ₄ "	41 ¹ / ₄ " x 59 ¹ / ₄ "
2	40" x 72"	37 ¹ / ₈ " x 42 ¹ / ₄ "	36 ³ / ₈ " x 27 ¹ / ₈ "
3	40" x 63"	37 ³ / ₁₆ " x 30 ⁷ / ₈ "	36 ³ / ₈ " x 30 ¹ / ₈ "

Product Identification:

System		
1	Certification Agency	AAMA
	Manufacturer's Name or Code Name	FS-1
	Product Name	ES5000DH
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08

Product Identification (continued):

System		
2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Four Seasons Solar Products LLC
	Product Name	ES-5000 Tilt Vinyl Double Hung Oriel Window
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA/WDMA/CSA 101/I.S.2/A440-08

System		
3	Certification Agency	AAMA
	Manufacturer's Name or Code Name	FS-1
	Product Name	ES-5000DH
	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:

Frame Installation (Systems 1 and 3): 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 with minimum No. 10 screws. Along each side jamb, the fasteners are located approximately 4 inches from each corner and one (1) at the mid-span. All fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members.

Frame Installation (System 2): The wood wall framing members shall be minimum Southern Yellow Pine dimension lumber. The window assembly is secured to the wall framing using minimum ½" x ¾" wood stops located along the exterior and interior perimeter. The stops are secured to the wall framing with minimum No. 8 x 1 ⅝" wood screws spaced approximately 4 inches from each corner and 10 inches on center. 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.