

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

WIN-1547

Effective Date: March 1, 2012

Reevaluation Date: **April 2014**

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.

Series V-600 Vinyl Casement Windows, Single Field and Integral Mulled, Large Missile Impact Rated, Impact Resistant, manufactured by:

WinDoor Incorporated
7500 Amsterdam Drive
Orlando, Florida 32832
Telephone: (407) 481-8400
www.windowinc.com

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series V-600 Vinyl Twin Casement; XX	C-C70 73 x 64 ASTM E 1886; ASTM E 1996	+70/-70
2	Series V-600 Vinyl Single Casement Window; X	C-C80 37 x 78 Neg DP=120 ASTM E 1886; ASTM E 1996	+80/-120
3	Series V-600 Vinyl Triple Casement; XOX	C-C70 96 x 64 Neg DP=80 ASTM E 1886; ASTM E 1996	+70/-80
4	Series V-600 Vinyl Triple Casement; XXX	Individual: C-C80 37 x 78 Neg DP=120 ASTM E 1886; ASTM E 1996 Assembly: DP +80/-120; 117x78 AAMA 450; AAMA 506	+80/-120

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Sash Size
1	73 ¼" x 64"	35 ½" x 62 ½"	N/A
2	37" x 78"	35 ½" x 76 ½"	N/A
3	96" x 64"	22 ¾" x 62 ½"	48" x 62 ½"
4	116 ½" x 78"	35 ½" x 76 ½"	N/A

Product Identification:

Systems 1-3: Two certification program labels (Keystone) will be affixed to the window assembly. The certification program labels include the manufacturer's CAR number; product name; performance characteristics; and the approved inspection agency (Keystone). One label includes the following applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05. The second label includes the following applicable standards: ASTM E 1886-05 and ASTM E 1996-05.

Each certification label contains a Certification Authorization Report (CAR) number located on the top right side of the label and a model name for the window assembly. The following CAR numbers and model names are located on each label:

Label Identification:

System	Model	Certification Authorization Report (CAR) number	
		Label with AAMA/WDMA/CSA 101/I.S.2/A440-05	Label with ASTM E 1886-05 / ASTM E 1996-05 Missile Level D
1	V-600 PVC Twin Casement Comb Assy XX	167-445	167-255
2	V-600 PVC Casement	167-425	167-242
3	V-600 PVC Imp Triple Casement Comb Assy XOX	167-429	167-246

System 4: Each window in the assembly will bear two certification program labels as shown in **System 2** above.

In addition, two certification program labels (Keystone) will be affixed to the window assembly. The certification program labels include the manufacturer's CAR number; product name; performance characteristics; and the approved inspection agency (Keystone). One label includes the following applicable standard: AAMA 450-06. The second label includes the following applicable standard: AAMA 506-08.

Each certification label contains a Certification Authorization Report (CAR) number located on the top right side of the label and a model name for the window assembly. The following CAR numbers and model names are located on each label:

Label Identification:

System	Model	Certification Authorization Report (CAR) number	
		Label with AAMA 450-06	Label with AAMA 506-08
4	V-600 PVC Triple Casement Muller Assembly X/X/X	167-426	167-243

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

INSTALLATION INSTRUCTIONS

General: The window assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions, the approved drawings referenced below, and this evaluation report. Detailed installation instructions and component drawings are available from the manufacturer.

Design Drawings: The windows shall be installed in accordance with Drawing No. 08-01126, REV A, titled "Series V-600 PVC Single Integral and Field Muller Casement Window – LMI," sheets 1 through 9 of 9, dated November 8, 2010, and revised January 31, 2012, signed and sealed by Luis R. Lomas., P.E on January 31, 2012. The stated drawings will be referred to as the approved drawings in this evaluation report.

Wall Framing Construction: The windows may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 2,000 psi)
- Hollow concrete block (ASTM C-90, Grade N, Type 1 (or greater))
- Wood dimension lumber (minimum Spruce-Pine-Fir)
- Wood backed (minimum Spruce-Pine-Fir) minimum 20 gauge steel, 0.036" minimum.

Installation:

- Refer to Sheets 1 of 9, 2 of 9, and 2A of 9 of the approved drawings for the anchor layout and notes.
- Refer to Sheets 5 of 9 thru 7 of 9 of the approved drawings for installation details.
- 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: 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.