

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION
WIN-1665

Effective Date: November 1, 2012 (Revised December 1, 2012)
Reevaluation Date: **June 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.

Model V-400 Vinyl Double Hung Windows, 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 (psf)
1	Model V-400 PVC Unequal Glass Impact Double Hung	LC-PG70 54x84; ASTM E 1886-05/E1996-05	± 70

Product Dimensions:

System	Overall Size
1	54" x 84"

Product Identification (Certification Agency Label on Window):

System	Certification Agency	Keystone
1	Manufacturer's Name or Code Name	WinDoor, Inc. CAR & Product ID Number: 167-296 & 167-739
	Product Name	Model V-400 PVC Unequal Glass Impact Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08; ASTM E 1886-05/E1996-05

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:

System	Type of Installation	Replacement – Through Frame
1	Wall Framing	Wood (Spruce-Pine-Fir); Concrete (minimum compressive strength of 3,192 psi); Masonry (ASTM C-90); Steel (18 gauge, 33 ksi); or Aluminum ($\frac{1}{8}$ " thick 6063-T5)
	Fasteners	Wood: No. 10 wood screw; Concrete: $\frac{3}{16}$ " diameter Tapcons; Metal #10 SMS or self drilling screws
	Fastener Location/Spacing	The windows shall be installed in strict accordance with this product evaluation report and WinDoor Incorporated drawings 08-01652, sheets 1 – 4 of 4, dated June 26, 2012, signed and sealed by Luis R. Lomas, P.E. on June 26, 2012.
	Fastener Penetration	Wood: Minimum of $1\frac{3}{8}$ inches into the wall framing; Concrete: Minimum of $1\frac{1}{4}$ inches into the wall framing; Metal: Minimum 3 threads beyond structure interior wall.

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.