

# 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-1915

Effective Date: July 1, 2014  
 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.

**DH-2860 Vinyl Double Hung Windows, Impact Resistant**, manufactured by

**PGT Industries**  
 1070 Technology Drive  
 North Venice, Florida 34275  
 Telephone: (941) 480-1600  
 www.pgtindustries.com

**General Description:**

System	Description	Label Rating	Design Pressure Rating
1	DH-2860 Vinyl Oriel Double Hung Window	H-LC65 53 x 78 Missile Level D	+65 / -80 psf
2	DH-2860 Vinyl Double Hung Window	H-LC65 53 x 78 Missile Level D	+65 / -80 psf

**Product Dimensions:**

System	Overall Window Size	Top Sash Size	Bottom Sash Size
1	53.25" x 78.00"	49.00" x 50.50"	50.00" x 25.25"
2	53.25" x 78.00"	49.00" x 37.38"	50.00" x 38.75"

**Product Identification (Certification Agency Label on Window):**

System	Certification Agency	Keystone
1	Manufacturer's Name or Code Name	CAR 190-247; CAR 190-754
	Product Name	DH2860 Impact Oriel Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506-08; ASTM E 1886-05; ASTM E 1996-05; Missile Level D
	Certification Agency	Keystone
2	Manufacturer's Name or Code Name	CAR 190-246; CAR 190-753
	Product Name	DH2760/DH2860 Impact Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506-08; ASTM E 1886-05; ASTM E 1996-05; Missile Level D
	Certification Agency	Keystone

**Impact Resistance:**

System	Impact Resistant	Requirement
1, 2	Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the <b>Inland I</b> and <b>Seaward zone</b> . 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:**

**Design Drawings:** Drawing No. TDI-DH2860.1 titled "Double Hung Installation," sheets 1 through 4 of 4, dated September 11, 2013, signed and sealed by Anthony Lynn Miller, PE on September 12, 2013. 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, as specified on the approved drawings, include:

- Concrete (minimum compressive strength: 2,700 psi)
- Hollow concrete block; ASTM C-90
- Wood dimension lumber (minimum Southern Yellow Pine)
- Steel (18 gauge, 33 ksi)
- Steel (A36, minimum 0.125")
- Aluminum (6063-T5 , minimum 0.125")

**Installation:** Refer to Sheet 1 of 4 through 4 of 4 of the approved drawings for the installation details.

**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.