

# 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

## PRODUCT EVALUATION

WIN-1902

Effective Date: June 1, 2014  
Reevaluation Date: **January 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.

**HR-2710 Vinyl Horizontal Slider 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	HR-2710 Vinyl Horizontal Slider; XX	HS-C65 74 x 63 Missile Level D	+65 / -80 psf
2	HR-2710 Vinyl Horizontal Slider; XOX	HS-C65 130 x 63 Missile Level D	+65 / -65 psf
3	HR-2710 Vinyl Horizontal Slider; XX	HS-C60 74 x 63 Missile Level D	+60 / -65 psf

### Product Dimensions:

System	Overall Window Size	Operating Sash Size	Fixed Sash Glass Daylight Opening Size
1	74.25" x 63.25"	Two (2): 36.25" x 59.56"	N/A
2	130.00" x 63.00"	Two (2): 36.25" x 59.56"	51.25" x 54.25"
3	74.25" x 63.25"	Two (2): 36.25" x 59.56"	N/A

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

System	Certification Agency	Keystone
1	Manufacturer's Name or Code Name	CAR 190-749; CAR 190-242
	Product Name	2LT HR2710MI Impact Horizontal Roller XX
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-02; ASTM E 1996-02; Missile Level D

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

System		
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 190-750; CAR 190-243
	Product Name	3LT HR2710MI Impact Horizontal Roller XOX
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-02; ASTM E 1996-02; Missile Level D
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 190-747; CAR 190-240
	Product Name	2LT HR2710M Impact Horizontal Roller XX
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-02; ASTM E 1996-02; Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1, 2, 3	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-HR2710.1 titled "Horizontal Sliding Window Installation," sheets 1 through 3 of 3, dated September 17, 2013, signed and sealed by Anthony Lynn Miller, PE on September 17, 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 3 through 3 of 3 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.