



# Product Evaluation

WIN202 | 0916

Engineering Services Program

*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.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** WIN-202

**Effective Date:** September 1, 2016

**Re-evaluation Date:** October 2017

**Product Name:** Series 200 Vinyl Single Hung Windows, Individual and Mulled, New and Replacement Construction, Impact Resistant

**Manufacturer:** Showcase Custom Vinyl Windows and Doors  
A product of ENLIGHT Industries, LLC  
1702 Cullen Blvd.  
Houston, Texas 77023  
Telephone: (713) 926-8500

## General Description:

System	Description	Label Rating	Design Pressure Rating
1	200 Vinyl Single Hung Tilt Window	H-R60 36 X 84 Missile Level D	+60 /-60 psf
2	Series 200; Single Hung Window; Individual; (O/X)	H-R50 44 x 84 Missile Level D	+50 /-50 psf

## Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Sash Daylight Opening Size
1	36" x 84"	33-7/8" x 35"	31-1/4" x 44-13/16"
2	44-3/8" x 84"	42" x 35"	39-1/2" x 44-3/4"

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

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 839-303 / CAR 839-602
	Product Name	200 PVC Impact Single Hung
	Test Standards	AAMA/WDMACSA 101/IS2/A440-05 ASTM E 1886-05, ASTM E 1996-05, Missile Level D
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 839-309/CAR 839-602
	Product Name	200 SH
	Test Standards	AAMA/WDMACSA 101/IS2/A440-05 ASTM E 1886-05, ASTM E 1996-05, Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1-2	Yes	These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the <b>Inland I</b> zone and the <b>Seaward</b> zone. The window assemblies passed Missile Level D specified in ASTM E 1996-04. The window assemblies may be installed at any height on the structure as long as the design pressure rating for the assembly is not exceeded. These window assemblies will not need to be protected with an impact protective system.

**Installation:**

System		
1	Type of Installation	Nail Fin
	Wall Framing	SPF dimension lumber
	Fasteners	6d box nails or No. 6 x 1-5/8" screws
	Fastener Location/Spacing	Approximately 6" from each end and approximately 6" on center, full perimeter
	Fastener Penetration	Minimum 1-1/2" into the wall framing

**Installation (continued):**

System		
2 (One of the following)	Type of Installation	Nail Fin
	Wall Framing	SPF dimension lumber
	Fasteners	2-3/8" x 0.120 diameter smooth shank
	Fastener Location/Spacing	2" from each corner and 12" on center along perimeter
	Fastener Penetration	Minimum 1-1/2" into the wall framing
	Type of Installation	Frame
	Wall Framing	SPF dimension lumber
	Fasteners	Minimum No. 10 x 2-1/2" Screws
	Fastener Location/Spacing	Along the head, four fasteners are required, evenly spaced. Along each side jamb, six fasteners are required, evenly spaced.
	Fastener Penetration	Minimum 1-1/2" into the wall framing

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.