

## Product Evaluation

WIN2216 Draft | 0623

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-2216

**Effective Date:** July 1, 2023

**Re-evaluation Date:** May 2024

**Product Name:** 8400 Series Vinyl Casement Windows, Fin and Frame Installation, Impact Resistant

**Manufacturer:** Custom Window Systems  
 1900 SW 44<sup>th</sup> Avenue  
 Ocala, FL 34474  
 (352) 368-6922

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	8400 Series Vinyl Casement Windows; Frame Installed	LC-PG70 (37 x 80)-C Missile Level D	+70 / -70 psf
2	8400 Series Vinyl Casement Windows; Fin or Frame Installed	C-C65 (37 x 72) Missile Level D	+65 / -65 psf
3	8400 Series Vinyl Casement Windows; Fin or Frame Installed	C-C65 (37 x 63) Missile Level D	+65 / -65 psf

**Product Dimensions:**

System	Overall Size	Operable Sash Size
1	37" x 80"	36-1/4" x 79-1/4"
2	37" x 72"	35" x 70"
3	37" x 63"	35" x 61"

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

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR#138-1302/CAR# 138-538
	Product Name	8400 Vinyl Flange Impact Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E1886-05/E1996-05,09 Missile Level D
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR# 138-732/CAR# 138-276
	Product Name	8400 Fin/Flange Frame Impact Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E1886/E1996-02,05; Missile Level D
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR# 138-731/CAR# 138-275
	Product Name	8400 Fin/Flange Frame Impact Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E1886/E1996-05; Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1-3	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**Installation:**

System		
1	Type of Installation	Install in accordance with drawing No. TDI-999C, dated November 12, 2015. Revision C dated January 11, 2023. Signed and sealed by Lucas A. Turner, P.E. on February 28, 2023.
	Wall Framing	
	Fasteners	
	Fastener Location/Spacing	
	Fastener Penetration	

**Installation (continued):**

System		
2-3	Type of Installation	Install in accordance with drawing No. TDI-161D, dated November 12, 2015. Revision D dated January 11, 2023. Signed and sealed by Lucas A. Turner, P.E. on February 28, 2023.
	Wall Framing	
	Fasteners	
	Fastener Location/Spacing	
	Fastener Penetration	

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