

Product Evaluation

WIN2554 | 0221

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-2554

Effective Date: February 1, 2021

Re-evaluation Date: December 2023

Product Name: Crusader Elite Vinyl Casement Picture Windows, Fin and Frame Installation, Non-Impact Resistant

Manufacturer: Northeast Building Products
4280 Aramingo
Philadelphia, PA 19124
(215) 535-7110

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Crusader Elite New Construction Vinyl Casement Picture Windows	Class LC-PG30 72 x 72 Type FW	±30 psf
2	Crusader Elite Replacement Vinyl Casement Picture Windows	Class LC-PG60 72 x 72 Type FW	±60 psf
3	Crusader Elite New Construction Vinyl Casement Picture Windows	Class LC-PG40 60 x 60 Type FW	±40 psf

General Description (Continued):

System	Description	Label Rating	Design Pressure Rating
4	Crusader Elite Replacement Vinyl Casement Picture Windows	Class LC-PG55 60 x 60 Type FW	±55 psf

Note 1: Additional size of 42" x 72" Replacement provided in installation drawing TDI-Elite-CAPW-NI in order to allow wider anchor spacings at that size; this size is qualified by and uses same Certifications and Labels as System 2.

Note 2: Additional size of 46" x 60" Replacement provided in installation drawing TDI-Elite-CAPW-NI in order to allow wider anchor spacings at that size; this size is qualified by and uses same Certifications and Labels as System 4.

Product Dimensions:

System	Overall Size	Daylight Opening Size
1, 2	72" x 72"	65-5/8" x 65-5/8"
3, 4	60" x 60"	53-1/2" x 53-1/2"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	86-489
	Product Name	Crusader Elite Casement Picture Window (NC)
	Test Standards	AAMA/WDMA/CSA 101/IS2/A440-11
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	86-490
	Product Name	Crusader Elite Casement Picture Window (Repl)
	Test Standards	AAMA/WDMA/CSA 101/IS2/A440-11
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	86-491
	Product Name	Crusader Elite Casement Picture Window (NC)
	Test Standards	AAMA/WDMA/CSA 101/IS2/A440-11
4	Certification Agency	Keystone
	Manufacturer's Name or Code Name	86-492
	Product Name	Crusader Elite Casement Picture Window (Repl)
	Test Standards	AAMA/WDMA/CSA 101/IS2/A440-11

Impact Resistance:

System	Impact Resistant	Requirement
1-4	No	Provide an impact protective system when installing the product in areas that require windborne debris.

Installation:

System		
1-4	Type of Installation	Install the windows in accordance with Drawing TDI-ELITE-CAPW-NI; sheets 1 through 3 of 3; dated February 20, 2020; Revision 0; Signed, sealed, and dated March 18, 2020 by Lucas A. Turner, P.E.
	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.