

Product Evaluation

WIN2289 | 0422

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-2289

Effective Date: April 1, 2022

Re-evaluation Date: December 2024

Product Name: WinForce Vinyl Double Hung Windows, Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	WinForce Vinyl Double Hung Oriel Windows	LC-PG50 (42 x 82)-H Missile Level D	+50 / -50 psf
2	WinForce Vinyl Double Hung Windows	LC-PG50 (24 x 77)-H Missile Level D	+50 / -50 psf
3	WinForce Vinyl Double Hung Windows	LC-PG50 (45 x 86)-H Missile Level D	+50 / -50 psf
4	WinForce Vinyl Double Hung Windows; Equal Lite, Half Screen	LC-PG50 (53 x 86)-H Missile Level D	+50 / -50 psf
5	WinForce Vinyl Double Hung Windows; Equal Lite, Full Screen	LC-PG40 (53 x 86)-H Missile Level D	+40 / -50 psf

Product Dimensions:

System	Overall Size	Exterior Sash Size	Interior Sash Size
1	42" x 82"	37-1/2" x 47-5/8"	38-1/2" x 32-1/4"
2	24" x 77"	19-1/2" x 37"	20-1/2" x 38"
3	45" x 86"	40-1/2" x 41-1/2"	41-1/2" x 42-1/2"
4-5	53" x 86"	48-1/2" x 41-1/2"	49-1/2" x 42-1/2"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR# 86-211 / 86-403
	Product Name	WinForce Double Hung Oriel Window
	Test Standards	AAMA/WDMA/CSA 101/I.S.2A/440-11 ASTM E886-05/E1996-05,09 Missile Level D
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR# 86-214 / 86-412
	Product Name	WinForce Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-05/E1996-05,09 Missile Level D
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR# 86-215 / 86-413
	Product Name	WinForce Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-05/E1996-05,09 Missile Level D
4	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR# 86-216 / 86-414
	Product Name	WinForce DH Equal Lite Window (Impact) Half Screen
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-05/E1996-05,09 Missile Level D
5	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR# 86-216 / 86-415
	Product Name	WinForce DH Equal Lite Window (Impact) Full Screen
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-05/E1996-05,09 Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1-5	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		
1-5	Type of Installation	Install in accordance with drawing No. TDI-WINFORCE-DH-LM, dated April 13, 2017, Revision B. Signed and sealed by Lucas A. Turner, P.E. on February 9, 2022.
	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.