TDI Texas Department of Insurance

PO Box 12030 | Austin, TX 78711 | 800-578-4677 | tdi.texas.gov

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, 2022Re-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):

Certification AgencyKeystoneManufacturer's Name or Code NameCAR# 86-211 / 86-403Product NameWinForce Double Hung Oriel WindowTest StandardsAAMA/WDMA/CSA 101/L5.2A/440-11ASTM E886-05/E1996-05,09Missile Level DCertification AgencyKeystoneManufacturer's Name or Code NameCAR# 86-214 / 86-412Product NameWinForce Double HungTest StandardsAAMA/WDMA/CSA 101/L5.2/A440-11ASTM E1886-05/E1996-05,09Missile Level DTest StandardsAAMA/WDMA/CSA 101/L5.2/A440-11ASTM E1886-05/E1996-05,09Missile Level DCertification AgencyKeystoneManufacturer's Name or Code NameCAR# 86-215 / 86-413Product NameWinForce Double HungTest StandardsAAMA/WDMA/CSA 101/L5.2/A440-11ASTM E1886-05/E1996-05,09Missile Level DCertification AgencyKeystoneManufacturer's Name or Code NameCAR# 86-216 / 86-414Product NameWinForce DHouble HungTest StandardsAAMA/WDMA/CSA 101/L5.2/A440-11ASTM E1886-05/E1996-05,09Missile Level DManufacturer's Name or Code NameCAR# 86-216 / 86-414Product NameWinForce DH Equal Lite Window (Impact) Half ScreenTest StandardsAAMA/WDMA/CSA 101/L5.2/A440-11ASTM E1886-05/E1996-05,09Missile Level DSCertification AgencyKeystoneManufacturer's Name or Code NameCAR# 86-216 / 86-415Product NameCAR# 86-216 / 86-415Product NameCAR# 86-216 / 86-415<	System		
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Missile Level D			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		
	Type of Installation Wall Framing	Install in accordance with drawing No. TDI-
1-5	Fasteners	WINFORCE-DH-LM, dated April 13, 2017, Revision B. Signed and sealed by Lucas A. Turner, P.E. on
	Fastener Location/Spacing	February 9, 2022.
	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.