



Product Evaluation

WIN1835 | 1016

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-1835 **Effective Date:** October 1, 2016
Re-evaluation Date: March 2019

Product Name: 142.194DH-018/143/145.095 Vinyl Single Hung Windows, New and Replacement Construction, Impact Resistant

Manufacturer: Earthwise Group. LLC, manufactured by:
Showcase Custom Vinyl Windows and Doors
1702 Cullen Blvd.
Houston, Texas 77023
Telephone: (713) 926-8500

General Description:

System	Description	Label Rating	Design Pressure Rating
1	143.095 Oriel Vinyl Single Hung Windows New Construction (O/X)	R-PG65 44 x 84-H Missile Level D	± 65 psf
2	142.094SH-003/143/145.095 Vinyl Single Hung Windows New Construction (O/X)	H-R50 48 x 72 Missile Level D	± 50 psf
3	142.094SH-003/143/145.095 Vinyl Single Hung Windows Replacement Construction (O/X)	H-R50 53 x 72 Missile Level D	± 50 psf

Product Dimensions:

System	Overall Size	Operating Sash	Fixed Sash
1	44" x 84"	40-7/8" x 35-1/8"	39-3/16"x 44-3/4"
2	48" x 72"	44-1/4" x 35"	45" x 34-1/2"
3	53-1/8" x 72"	50-1/2" x 35-1/2"	51" x 34-1/2"

Product Identification (Certification Label on Window):

System			
1	Certification Agency	KEYSTONE	
	Manufacturer's Name or Code Name	839	
	Product / Model	143.095 SH Oriel Impact Single Hung	
	Certification Authorization Report (CAR) Number	839-216	839-1060
	CAR Test Standards	ASTM E1886-05 ASTM E1996-06 Missile Level D	AAMA/WDMA/CSA 101/I.S.2/A440-05
2	Certification Agency	KEYSTONE	
	Manufacturer's Name or Code Name	839	
	Product / Model	142.194DH-018/143/145.095 NC Imp Single Hung	
	Certification Authorization Report (CAR) Number	839-212	839-1035
	CAR Test Standards	ASTM E1886-05 ASTM E1996-06 Missile Level D	AAMA/WDMA/CSA 101/I.S.2/A440-05
3	Certification Agency	KEYSTONE	
	Manufacturer's Name or Code Name	839	
	Product / Model	142.194DH-018/143/145.095 Rep Imp Single Hung	
	Certification Authorization Report (CAR) Number	839-211	839-1034
	CAR Test Standards	ASTM E1886-05 ASTM E1996-06 Missile Level D	AAMA/WDMA/CSA 101/I.S.2/A440-05

Impact Resistance:

System	Impact Resistant	Requirement
1,2,3	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Acceptance of Smaller Assemblies: Window assemblies with dimensions equal to or smaller than those specified are acceptable with the limitations specified in this report.

Installation:

System		
1	Type of Installation	New Construction - Nail Fin
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners	Minimum 6D nails (0.113" diameter smooth shank)
	Fastener Location/Spacing	Drive fasteners 6" maximum from each corner and approximately 12" on center along the perimeter through nail fin.
	Fastener Penetration	Minimum 1-1/2" into the wall framing
2	Type of Installation	New Construction - Nail Fin
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners	Minimum No. 8 Screws
	Fastener Location/Spacing	Drive fasteners 2" maximum from each corner and approximately 10" on center along the perimeter through nail fin.
	Fastener Penetration	Minimum 1-1/2" into the wall framing
3	Type of Installation	Replacement Construction - Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber
	Fasteners	Minimum No. 8 x 1-5/8" screws
	Fastener Location/Spacing	Frame Head and Frame Sill: No fasteners. Frame Jamb: Drive fasteners 2" maximum from each corner and approximately 16" thereafter.
	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.