



Product Evaluation

WIN2050 | 1215

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-2050

Effective Date: December 1, 2015

Re-evaluation Date: August 2018

Product Name: SH-5400 Vinyl Single-Hung Windows, Fin-Mounted and Replacement, Individual, Non-Impact Resistant

Manufacturer: PGT Industries
1070 Technology Drive
North Venice, FL 34275
(941) 486-0100 (Ext. 21142)

General Description:

System	Description	Label Rating	Design Pressure Rating
1	SH-5400 Vinyl Single-Hung Windows, fin-mounted, with a 3/4" nominal insulated glass lite composed of two 5/32" annealed glass sections and R2 aluminum reinforcement in the sash rails (O/X)	LC-PG65 52 X 92-H	+65 / -70 psf
2	SH-5400 Vinyl Single-Hung Windows, replacement, with a 3/4" nominal insulated glass lite composed of two 5/32" annealed glass sections and R2 aluminum reinforcement in the sash rails (O/X)	LC-PG65 52 X 92-H	+65 / -70 psf

General Description (continued):

System	Description	Label Rating	Design Pressure Rating
3	SH-5400 Vinyl Single-Hung Windows, fin-mounted, with a 3/4" nominal insulated glass lite composed of two 1/8" annealed glass sections and R1 aluminum reinforcement in the sash rails (O/X)	LC-PG50 52 X 92-H	+50 / -50 psf
4	SH-5400 Vinyl Single-Hung Windows, replacement, with a 3/4" nominal insulated glass lite composed of two 1/8" annealed glass sections and R1 aluminum reinforcement in the sash rails (O/X)	LC-PG50 52 X 92-H	+50 / -50 psf
5	SH-5400 Vinyl Single-Hung Windows, replacement with a 3/4" nominal insulated glass lite composed of two 1/8" annealed glass sections and R4 aluminum reinforcement in the sash rails (O/X)	R-PG50 40 X 63-H	+50 / -70 psf
6	SH-5400 Vinyl Single-Hung Windows, fin-mounted with a 3/4" nominal insulated glass lite composed of two 1/8" annealed glass sections and R4 aluminum reinforcement in the sash rails (O/X)	LC-PG50 36 X 68-H	+50 / -50 psf
7	SH-5400 Vinyl Single-Hung Windows, replacement, with a 3/4" nominal insulated glass lite composed of two 1/8" annealed glass sections and R4 aluminum reinforcement in the sash rails (O/X)	LC-PG50 36 X 68-H	+50 / -50 psf

Product Dimensions:

System	Overall Size	Operable Daylight Opening Size	Fixed Daylight Opening Size
1	54-7/8" x 94-1/2"	45-3/4" x 38-1/16"	47-7/8" x 45-1/8"
2	52-1/8" x 91-3/4"	45-1/2" x 38"	47-3/4" x 45-5/8"
3	54-7/8" x 94-1/2"	45-3/4" x 38-1/16"	47-7/8" x 45-1/8"
4	52-1/8" x 91-3/4"	45-1/4" x 38"	47-7/8" x 45-3/4"
5	40" x 63"	33-1/2" x 27-1/2"	35-3/4" x 27-5/8"
6	38-3/4" x 70-1/4"	29-9/16" x 27-1/16"	31-3/4" x 32-5/8"
7	36" x 67-9/16"	29-9/16" x 27-1/16"	31-3/4" x 32-5/8"

Note: Refer to the drawings referenced in the Supplemental Installation Instructions for information concerning the configuration of Standard ProView and Custom Sash/Oriel configurations.

Product Identification (Certification Label on Window):

System		
1 - 7	Certification Agency	Keystone Certifications, Inc.
	Manufacturer's Name or Code Name	System 1, 2: CAR # 190-1026 System 3, 4: CAR # 190-1021 System 5: CAR # 190-1022 System 6, 7: CAR # 190-1027
	Product Name	Model SH 5400 PVC Single Hung or Model SH 5400 View PVC Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11

Impact Resistance:

System	Impact Resistant	Requirement
1 - 7	No	Provide an impact protective system when installing the product in the Inland I and Seaward zones.

Installation:

System		
1, 3, 6 (FIN)	Type of Installation	Wood Frame
	Wall Framing	Southern Pine (SPG \geq 0.55) Dimension lumber
	Fasteners	Minimum 8d Common Ring-Shank Nails (2-1/2" long, 0.131" diameter)
	Fastener Penetration	Minimum 1-7/16" into the wall framing
2, 4, 5, 7 (FINLESS)	Type of Installation	Wood Frame
	Wall Framing	Southern Pine (SPG \geq 0.55) Dimension lumber
	Fasteners	Minimum No. 10 x 1-3/4" Phillips Head, 18-8 or 410 Stainless Steel Sheet Metal Screws or Minimum No. 12 x 1-3/4" Phillips Head, 18-8 or 410 Stainless Steel Sheet Metal Screws
	Fastener Penetration	Minimum 1-1/2" into the wall framing

Supplemental Installation Instructions:

- **Design Drawing:** Install the windows in accordance with Drawing No. TDI-SH5400.1, titled "Vinyl SH Window TDI (Non-Impact)," sheets 1 through 4 of 4, dated March 16, 2015, signed and sealed by A. Lynn Miller, P.E., on March 16, 2015. This evaluation report refers to the stated drawings as the approved drawings.

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.