

Product Evaluation

WIN271 | 0323

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-271

Effective Date: March 1, 2023

Re-evaluation Date: July 2024

Product Name: Series 07-09 and 07-20 Stormbreaker Plus Vinyl Double Hung Windows, Fin and Frame Installation, Impact Resistant

Manufacturer: Simonton Windows & Doors by Ply Gem
5020 Weston Pkwy., Ste. 300
Cary, NC 27513
(800) 542-9118 ext. 413596

Marketed As: StormBreaker Plus
PerfeXion Impact
8000 Series

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 07-09/07-20 Stormbreaker Plus Vinyl Double Hung Windows	R-PG65 (37 x 76)-H Missile Level D	+65 / -70 psf
2	Series 07-09 Stormbreaker Plus Vinyl Double Hung Windows	R-PG60 (37 x 84)-H Missile Level D	+60 / -60 psf

General Description:

System	Description	Label Rating	Design Pressure Rating
3	Series 07-09/07-20 Stormbreaker Plus Vinyl Double Hung Windows	R-PG60 (37 x 84)-H Missile Level D	+60 / -60 psf
4	Series 07-09/07-20 Stormbreaker Plus Vinyl Double Hung Windows	R-PG50 (53 x 76)-H Missile Level D	+50 / -50 psf
5	Series 07-09/07-20 Stormbreaker Plus Vinyl Double Hung Windows	R-PG55 (53 x 76)-H Missile Level D	+55 / -60 psf

Product Dimensions:

System	Overall Size	Top Sash Size	Bottom Sash Size
1	37" x 76"	32-3/4" x 36-1/4"	33-3/4" x 37-1/4"
2-3	37" x 84"	32-7/8" x 40-1/4"	33-7/8" x 41-1/4"
4	53" x 76"	48-15/16" x 36-1/2"	49-7/8" x 37-1/4"
5	53" x 76"	48-3/4" x 36-1/4"	49-3/4" x 37-1/4"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	AAMA
	Code Name	SIM-1
	Product Name	07-09/07-20 STORMBREAKER PL DH
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
2	Certification Agency	AAMA
	Code Name	SIM-1
	Product Name	07-09 STORMBREAKER PLUS DH
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA 506; Missile Level D
3, 5	Certification Agency	AAMA
	Code Name	SIM-1 or SIM -2
	Product Name	07-09/07-20 STORMBREAKER PL DH (System 1, 4) 07-09/07-20 STORMBREAKER PLUS DH (System 6)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
4	Certification Agency	AAMA
	Code Name	SIM-1
	Product Name	07-09/07-20 STORMBREAKER PLUS DH
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; 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:**Frame Installation (System 1-2):**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using minimum No. 10 x 2-1/2" steel screws. Along the side jambs, locate the screws approximately 6" from each corner and 3" above and below the midspan. Along the head, locate the screws approximately 6" from each corner. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Nail Fin Installation (System 3, 5):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a nailing fin. The nailing fin is secured to the wall framing using minimum No. 6 steel screws. Locate the screws approximately 1" from each corner and 9" on center along the perimeter of the window. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Nail Fin Installation (System 4):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a nailing fin. The nailing fin is secured to the wall framing using minimum No. 6 steel screws. Locate the screws approximately 1" from each corner and 8-1/2" on center along the perimeter of the window. In addition, use one (1) No. 8 x 2-1/2" screw through each "U" channel along the side jambs. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Frame Installation (System 5):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using minimum No. 10 x 2-1/2" steel screws. Along the side jambs, locate the screws approximately 6" from each corner and 3" above and below the meeting rails, totaling four (4) per jamb. Along the head, locate the screws approximately 6" from each corner. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

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.