

Product Evaluation

WIN1191 | 0722

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-1191

Effective Date: July 1, 2022

Re-evaluation Date: September 2024

Product Name: Series 08-09 and 08-20 Vinyl Casement 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: Storm Breaker Plus
PerfeXion Impact
8000 Series

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 08-09 Vinyl SB Plus Casement Windows	R-PG55 (30 x 65)-C Missile Level D	+55 / -55 psf
2	Series 08-20 Vinyl SB Plus Casement Windows	R-PG55 (30 x 65)-C Missile Level D	+55 / -55 psf

General Description (continued):

System	Description	Label Rating	Design Pressure Rating
3	Series 08-09/08-20 Vinyl SB Plus Casement Windows (INS LAM GL)	R-PG55 (36 x 50)-C Missile Level D	+55 / -55 psf
4	Series 08-09/08-20 Vinyl SB Plus Casement Windows (INS TEMP/LAM GL)	R-PG55 (36 x 50)-C Missile Level D	+55 / -55 psf
5	Series 08-09 Vinyl Casement Windows; Triple	R-PG50 (91 x 65)-C Missile Level D	+50 / -50 psf

Product Dimensions:

System	Overall Size	Operable Sash Size
1, 2	30" x 65"	28-1/4" x 63-1/4"
3, 5	36" x 50"	34-1/4" x 48-1/4"
5	91" x 65"	28-1/4" x 63-1/4" (3)

Product Identification (Certification Label on Window):

System		
1, 2	Certification Agency	AAMA
	Manufacturer's Name or Code Name	SIM-1 or SIM-2
	Product Name	08-09/08-20 CASEMENT
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
3	Certification Agency	AAMA
	Manufacturer's Name or Code Name	SIM-1 or SIM-2
	Product Name	08-09/08-20 SB PLUS CASEMENT
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA 506; Missile Level D
4	Certification Agency	AAMA
	Manufacturer's Name or Code Name	SIM-1 or SIM-2
	Product Name	08-09/08-20 SB PLUS CASEMENT
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
5	Certification Agency	AAMA
	Manufacturer's Name or Code Name	SIM-1 or SIM-2
	Product Name	08-09 CASEMENT TRIPLE FINLESS
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA 506; Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1-6	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):**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using No. 10 x 2-1/2" screws. Along the side jambs, locate the screws approximately 6" from each corner and 3" above and below the midspan. Along the head and sill, locate the screws 6" from each corner. Also, at the head and sill, place one No. 8 x 2-1/2" screw in each hinge track. At the sill, locate one No. 8 x 2-1/2" screw through the operator assembly. At the hinge jamb, use one No. 8 x 2-1/2" screw through each impact snubber. At the lock jamb, use one No. 8 x 3" screw in each tie bar guide. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Nail Fin Installation (System 2, 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 No. 6 steel screws. Space the screws approximately 8-1/2" on center along the perimeter. Secure the tie bar guides with one No. 8 x 3" steel screw, the impact snubbers with one No. 8 x 2-1/2" steel screw, each hinge track with one No. 8 x 2-1/2" steel screw, and the operator with one No. 8 x 2-1/2" steel screw in the third hole location from the midspan. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Nail Fin Installation (System 3):

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 No. 6 steel screws. Locate the screws approximately 1" from each corner and spaced 9" on center along the perimeter. 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 No. 10 x 2-1/2" steel screws. Along the side jambs, locate the screws approximately 6" from each corner and spaced 3" on center, place one No. 8 x 3" screw through each tie bar guide, and one No. 8 x 2-1/2" screw at each impact snubber. Along the head and sill, locate the screws approximately 6" from each corner and place one No. 8 x 2-1/2" screw at the second hole from center of the hinge track. Along the sill, one No. 8 x 2-1/2" screw at each operator. The vertical mullion ends anchored with 2" x 2" x 1" wide; 0.060" thick steel L-brackets secured to each other through the mullion with two 5/16" diameter

pop rivets (two per mullion end). 2" x 6"; 0.060" thick baseplate interlocked with the steel L-brackets. Secure each baseplate with four No. 10 steel screws. 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.