

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION

WIN-1756

Effective Date: July 1, 2013

Reevaluation Date: **June 2016**

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.

350 Series HurricaneShield Vinyl Single Hung Windows, Impact Resistant, manufactured by

Pella Corporation
102 Main Street
Pella, Iowa 50219
Telephone: (641) 621-1000

General Description:

System	Description	Label Rating	Design Pressure Rating
1	350 Series HurricaneShield Vinyl Single Hung Windows	LC-PG60 41x84-Type H Missile Level D	+60/-65 psf
2	350 Series HurricaneShield Vinyl Single Hung Windows	LC-PG60 52.5x77.25-Type H Missile Level D	+60/-65 psf

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Daylight Opening Size
1	41.00" x 84.00"	38.19" x 42.06"	34.58" x 37.18"
2	52.50" x 77.25"	49.45" x 32.81"	45.83" x 39.70"

Product Identification (Certification Agency Label on Window):

System		
1-2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Pella Corporation
	Product Name	350 Series Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886, ASTM E 1996 Missile Level D, Wind Zone 4

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Installation:

System 1 (One of the following):

Screw Installation using Frame: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The windows shall be secured to the wall framing using the frame of the window with minimum No. 10 x 2" screws. Along the head and sill, the fasteners shall be located approximately 6 inches from each corner with two (2) fasteners equally spaced (approximately 14.5 inches on center). Along each side jamb, the fasteners shall be located approximately 6 inches from each corner, approximately 4 inches on either side of the meeting rail, approximately 16 inches on center along the top sash, and approximately 16 inches on center along the bottom sash. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

Clip Installation using Frame: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The windows shall be secured to the wall framing using the frame of the window with minimum 2" x 6" x 0.052" galvanized steel installation clips. The clips are interlocked into a T-slot groove on the back side of the window frame. The clips are secured to the window frame with two (2) No. 8 x 1/2" screws and to the wall framing with two (2) No. 6 screws. Along the head and sill, the clips shall be located approximately 6 inches from each corner with two (2) fasteners equally spaced (approximately 14.5 inches on center). Along each side jamb, the clips shall be located approximately 6 inches from each corner, approximately 4 inches on either side of the meeting rail, approximately 16 inches on center along the top sash, and approximately 16 inches on center along the bottom sash. The fasteners shall be long enough to penetrate a minimum of 1 ¼ inches into the wall framing.

System 2 (One of the following):

Screw Installation using Frame: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The windows shall be secured to the wall framing using the frame of the window with minimum No. 10 x 2" screws. Along the head and sill, the fasteners shall be located approximately 6 inches from each corner with two (2) fasteners equally spaced (approximately 13.4 inches on center). Along each side jamb, the fasteners shall be located approximately 6 inches from each corner, approximately 4 inches on either side of the meeting rail, approximately 11.5 inches on center along the top sash, and approximately 11.375 inches on center along the bottom sash. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

Clip Installation using Frame: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The windows shall be secured to the wall framing using the frame of the window with minimum 2" x 6" x 0.052" galvanized steel installation clips. The clips are interlocked into a T-slot groove on the back side of the window frame. The clips are secured to the window frame with two (2) No. 8 x 1/2" screws and to the wall framing with two (2) No. 6 screws. Along the head and sill, the clips shall be located approximately 6 inches from each corner with two (2) fasteners equally spaced (approximately 13.4 inches on center). Along each side jamb, the clips shall be located approximately 6 inches from each corner, approximately 4 inches on either side of the meeting rail, approximately 11.5 inches on center along the top sash, and approximately 11.375 inches on center along the bottom sash. The fasteners shall be long enough to penetrate a minimum of 1 ¼ inches into the wall framing.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.