TDI | Texas Department of Insurance

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Product Evaluation

WIN2357 | 0419

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-2357

Effective Date: April 1, 2019
Re-evaluation Date: March 2023

Product Name: Series 250 Vinyl Casement Windows, Fin and Frame Installation, Non-Impact Resistant

Manufacturer: Pella Corporation
102 Main Street
Pella, IA 50219
(641) 621-1000

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Pella 250 Series 2-Wide Vinyl High Performance Vent Casement; Fin Install; XX	LC-PG50 71.5 x 71.5 Type-C	DP +50/-50 psf
2	Pella 250 Series 3-Wide Vinyl Vent Casement; Fin Install; XXX	LC-PG35 107.5 x 71.5 Type-C	DP +35/-35 psf
3	Pella 250 Series 3-Wide Vinyl Fixed with Flankers Casement; Fin Install; XOX	LC-PG35 107.5 x 71.5 Type-C	DP +35/-35 psf

General Description (Continued):

System	Description	Label Rating	Design Pressure Rating
4	Pella 250 Series 3-Wide Vinyl Fixed with Flankers Casement; Fin Install; XOX	LC-PG35 107.5 x 53.5-Type C	+35/-35 psf
5	Pella 250 Series 3-Wide Vinyl Vent Casement; Fin Install; XXX	LC-PG35 107.5 x 53.5-Type C	+35/-35 psf
6	Pella 250 Series 3-Wide Vinyl Vent Casement; Frame Install; OXO	LC-PG35 107.5 x 53.5-Type C	+35/-35 psf
7	Pella 250 Series 3-Wide Vinyl Vent Casement; Frame Install; OOX	LC-PG35 107.5 x 53.5-Type C	+35/-35 psf
8	Pella 250 Series 2-Wide Vinyl High Performance Vent Casement; Frame Install; XX	LC-PG50 71.5 x 71.5-Type C	+50/-50 psf
9	Pella 250 Series 3-Wide Vinyl Vent Casement; Frame Install; XXX	LC-PG35 107.5 x 71.5-Type C	+35/-35 psf
10	Pella 250 Series 3-Wide Vinyl Fixed with Flankers Casement; Frame Install; XOX	LC-PG35 107.5 x 71.5-Type C	+35/-35 psf
11	Pella 250 Series 3-Wide Vinyl Vent Casement; Fin Install; OXO	LC-PG35 107.5 x 71.5-Type C	+35/-35 psf
12	Pella 250 Series 3-Wide Vinyl Vent Casement; Fin Install; OOX	LC-PG35 107.5 x 71.5-Type C	+35/-35 psf
13	Pella 250 Series 3-Wide Vinyl Fixed with Flankers Casement; Frame Install; XOX	LC-PG35 107.5 x 53.5-Type C	+35/-35 psf
14	Pella 250 Series 3-Wide Vinyl Vent Casement; Frame Install; XXX	LC-PG35 107.5 x 53.5-Type C	+35/-35 psf

Product Dimensions:

System	Overall Size	Operating Sash Size	Fixed Sash Daylight Opening Size
1	71-1/2" x 71-1/2"	Two (2); 33-3/4" x 69-3/4"	N/A
2	107-1/2" x 71-1/2"	Three (3); 33-3/4" x 69-3/4"	N/A
3	107-1/2" x 71-1/2"	Two (2); 24-3/4" x 69-3/4"	48-1/2" x 66-1/2"
4	107-1/2" x 53-1/2"	Three (3); 33-3/4" x 51-3/4"	N/A
5	107-1/2" x 53-1/2"	Two (2); 24-3/4" x 51-3/4"	48-1/2" x 47-5/16"
6	107-1/2" x 53-1/2"	One (1); 33-3/4" x 51-3/4"	30-1/2" x 48-1/2"
7	107-1/2" x 53-1/2"	One (1); 33-3/4" x 51-3/4"	30-1/2" x 48-1/2"
8	71-1/2" x 71-1/2"	Two (2); 33-3/4" x 69-3/4"	N/A
9	107-1/2" x 71-1/2"	Three (3); 33-3/4" x 69-3/4"	N/A
10	107-1/2" x 71-1/2"	Two (2); 24-3/4" x 69-3/4"	48-1/2" x 66-1/2"
11	107-1/2" x 71-1/2"	One (1); 33-3/4" x 69-3/4"	30-1/2" x 66-1/2"
12	107-1/2" x 71-1/2"	One (1); 33-3/4" x 69-3/4"	30-1/2" x 66-1/2"
13	107-1/2" x 53-1/2"	Three (3); 33-3/4" x 51-3/4"	N/A
14	107-1/2" x 53-1/2"	Two (2); 24-3/4" x 51-3/4"	48-1/2" x 47-5/16"

Product Identification (Certification Label on Window):

System		
1-14	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Pella Corporation
	Product Name	Pella 250 Series – Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-17

Impact Resistance:

System	Impact Resistant	Requirement
1-14	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

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

Installation:

System 1 (Fin Installation): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the assembly to the wall framing using the nailing fin with minimum No. 8 x 2" pan head screws and washers. Locate the fasteners approximately 4" from each corner and approximately 4" on center along the perimeter of the assembly. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 2, 3, 4, 5, 11, and 12 (Fin Installation): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the assembly to the wall framing using the nailing fin with minimum 11-gauge galvanized smooth shank roofing nails. Locate the fasteners approximately 4" from each corner and approximately 8" on center along the perimeter of the assembly. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

Systems 6 and 7 (Frame Installation-Clips): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the window frame to the wall framing with clips and minimum No. 10 x 2" pan head screws. Rigid plastic (PVC) installation (3" long x 1.325" wide x 0.060") clips are snapped into the frame head and sill and single screw connected to the wall framing located at 5" from each corner and 4" and 8" on both sides of the centerline of the mullion. Clips are also snapped into the frame at 5" from each corner and 13-7/8" on center thereafter at both side jambs. Each clip is fastened to the wall framing with one (1) minimum No. 10 x 2" pan head screw. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 8 (Frame Installation-Screws/Clips): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the window frame to the wall framing with minimum No. 10 x 2" pan head screws. Along the head, locate the fasteners at 3-1/4" from each corner and 3-1/2" from the center of each mullion. Along each side jamb, locate the fasteners 3-1/4" from each corner and 16" on center. Rigid plastic (PVC) installation (3" long x 1.325" wide x 0.060") clips are snapped into the frame sill and single screw connected to the wall framing with minimum No. 10 x 2" pan head screws located at 4" and 16" from each corner and 4" and 8" on both sides of the centerline of the mullion. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 9 (Frame Installation-Screws/Clips): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the window frame to the wall framing with minimum No. 10 x 2" pan head screws. Along the head, locate the fasteners at 3-1/4" from each corner and 3-1/2" from the center of each mullion. Along each side jamb, locate the fasteners 3-1/4" from each corner and 16" on center. Rigid plastic (PVC) installation (3" long x 1.325" wide x 0.060") clips are snapped into the frame sill and single screw connected to the wall framing with minimum No. 10 x 2" pan head screws located at 4" and 16" from each corner, 4" and 8" on both sides of the centerline of the mullion and one clip at the center of the frame width. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 10 (Frame Installation-Screws/Clips): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the window frame to the wall framing with minimum No. 10 x 2" pan head screws. Along the head, locate the fasteners at 3-1/4" from each corner and 3-1/2" from the center of each mullion. Along each side jamb, locate the fasteners 3-1/4" from each corner and 16" on center. Rigid plastic (PVC) installation (3" long x 1.325" wide x 0.060") clips are snapped into the frame sill and single screw connected to the wall framing with minimum No. 10 x 2" pan head screws located at 4" and 16" from each corner, 4" and 8" on both sides of the centerline of the mullion, one clip at the center of each vent unit width, and an additional three (3) clips are located 9-1/2" on center on the fixed portion of the assembly. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 13 (Frame Installation-Screws/Clips): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the window frame to the wall framing with minimum No. 10 x 2" pan head screws. Along the head, locate the fasteners at 3-1/4" from each corner and 3-1/2" from the center of each mullion. Along each side jamb, locate the fasteners 3-1/4" from each corner and 12" on center. Rigid plastic (PVC) installation (3" long x 1.325" wide x 0.060") clips are snapped into the frame sill and single screw connected to the wall framing with minimum No. 10 x 2" pan head screws located at 4" and 16" from each corner, 4" and 8" on both sides of the centerline of the mullion, one clip at the center of each vent unit width, and an additional three (3) clips are located 9-1/2" on center on the fixed portion of the assembly. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

System 14 (Frame Installation-Screws/Clips): The wall framing must be minimum Spruce-Pine-Fir dimension lumber. Secure the window frame to the wall framing with minimum No. 10 x 2" pan head screws. Along the head, locate the fasteners at 3-1/4" from each corner and 3-1/2" from the center of each mullion. Along each side jamb, locate the fasteners 3-1/4" from each corner and 12" on center. Rigid plastic (PVC) installation (3" long x 1.325" wide x 0.060") clips are snapped into the frame sill and single screw connected to the wall framing with minimum No. 10 x 2" pan head screws located at 4" and 16" from each corner and 4" and 8" on both sides of the centerline of the mullion. Use fasteners long enough to penetrate a minimum of 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.