Product Evaluation

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: DR-697

Effective Date: September 1, 2014
Re-evaluation Date: May 2017

Product Name: 350 Series HurricaneShield Vinyl Sliding Patio Doors, Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	350 Series Vinyl Sliding Patio Door (OXO)	LC-PG50 146 x 100 – Type SD Missile Level D	± 50 psf
2	350 Series Vinyl Sliding Patio Door (OXXO)	LC-PG50 146 x 100 – Type SD Missile Level D	± 50 psf

Product Dimensions:

System	Overall Size	Panel Size	Panel Glass Daylight Opening Size
1	146.00" x 100.00" (OXO)	Operating (1): 48.34" x 97.38" Fixed (2): 48.34" x 97.38"	41.32" x 90.25"
2	146.00" x 100.00" (OXXO)	Operating (2): 37.22" x 97.38" Fixed (2): 37.22" x 97.38"	30.09" x 90.25"

Acceptable Configurations: XO, OX, OXO, OXXO

Reinforcement Clips (3 Panel and 4 Panel Doors):

- Locate one (1) fixed panel reinforcement clip in the top rail of each fixed panel.
- Locate two (2) fixed panel reinforcement clips in the top rail of each operating panel.
- One fixed panel reinforcement clip in the bottom rail of each fixed panel.
- Locate two (2) vent panel reinforcement clips in the bottom rail of each operating panel.
- Locate one (1) fixed panel reinforcement clip in the head above each fixed panel and in the sill below each fixed panel, and secure to wall framing with four (4), No. 10 x 2" screws.
- Locate two (2) fixed panel reinforcement clips in the head above each operating panel and secure to wall framing with four (4), No. 10 x 2" screws.
- Locate two (2) vent panel reinforcement clips in the sill below each operating panel and secure to wall framing with two (2), No. 10 x 2" screws.

Reinforcement Clips (2 Panel Doors):

- Locate one (1) fixed panel reinforcement clip in thetop rail of the fixed panel.
- Locate one (1) fixed panel reinforcement clip in the top rail of the operating panel.
- Locate one (1) fixed panel reinforcement clip in the bottom rail of the fixed panel.
- Locate one (1) vent panel reinforcement clip in the bottom rail of the operating panel.
- Locate one (1) fixed panel reinforcement clip in the head above the fixed and operating panel and in the sill below the fixed panel, and secure to the wall framing with four (4), No. 10 x 2" screws.
- Locate one (1) vent panel reinforcement clips in the sill below the operating panel and secure to wall framing with two (2), No. 10 x 2" screws.

Product Identification (Certification Agency Label on Door):

System		
1, 2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Pella Corporation
	Product Name	Pella 350 Series – Patio Door
	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; Wind Zone Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1,2	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:

- **2-Panel and 3-Panel Doors:** Wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. Secure door to the wood wall framing members using the doorframe with minimum No. 10 x 2" screws. Place fasteners in pairs approximately 6" from each corner and 22" on center along the side jambs and in pairs approximately 6" from each corner along the head and sill. In addition, locate three (3) pairs of screws at each point where the panels meet with the center pair under the panel meeting point and the remaining two (2) pairs approximately 6" on either side of the center pair of holes. Further, a pair of screws shall be located mid span between the pair located at the corner and the three (3) pairs and at the mid span between the closest set of

three (3) pairs of screws. The fasteners shall be long enough to penetrate a minimum of 1-1/2" into wall framing members.

- **4-Panel Doors:** Wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. Secure door to wall framing members using the doorframe with minimum No. 10 x 2" screws. Place fasteners in pairs approximately 6" from each corner and 22" on center along the door jambs and in pairs approximately 6" from each corner along the head and sill. In addition, locate three (3) pairs of screws at each point where the panels meet with the center pair located under the panel meeting point and the remaining two (2) pairs located approximately 6" on either side of the center pair of holes. The fasteners shall be long enough to penetrate a minimum of 1-1/2" into wall framing members.

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.