

Product Evaluation

WIN358 | 1022

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-358

Effective Date: October 1, 2022

Re-evaluation Date: July 2024

Product Name: 150 Series/Thermastar/Encompass/Avanti Vinyl Fixed Windows, Fin and Frame Installation, Non-Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Nail Fin & Block Install; O	CW-PG50 (60 x 60)-FW	+50 / -50 psf
2	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Block Install; O	CW-PG50 (60 x 60)-FW	+50 / -50 psf
3	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Nail Fin Install; O	CW-PG40 (60 x 60)-FW	+40 / -40 psf
4	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Nail Fin Install; O	CW-PG35 (72 x 72)-FW	+35 / -35 psf
5	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Block Install; O	CW-PG45 (72 x 72)-FW	+45 / -45 psf

General Description (Continued):

System	Description	Label Rating	Design Pressure Rating
6	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Nail Fin & Block Install; O	LC-PG25 (90 x 76)-FW	+25 / -25 psf
7	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Nail Fin & Block Install; O	LC-PG25 (108 x 64)-FW	+25 / -25 psf
8	150 Series/Thermastar/Encompass/Avanti Fixed Windows, Nail Fin Install; O	CW-PG25 (108 x 84)-FW	+25 / -25 psf
9	150 Series/Thermastar/Encompass Fixed Windows, Block Install; O	CW-PG30 (108 x 84)-FW	+30 / -30 psf

Product Dimensions:

System	Overall Size	Fixed Sash Daylight Opening Size
1	60" x 60"	56-7/8" x 56-7/8"
2-3	60" x 60"	55" x 55"
4-5	71-1/2" x 71-1/2"	66-7/16" x 66-7/16"
6	90" x 76"	86-7/8" x 72-7/8"
7	108" x 64"	104-7/8" x 60-7/8"
8-9	108" x 84"	102-15/16" x 78-15/16"

Product Identification (Certification Label on Window):

System		
1-9	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Pella Corporation
	Product Name	150 Series or Thermastar or Encompass or Avanti - Fixed Window
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11

Compliance: The products comply with AAMA/WDMA/CSA 101/I.S.2/A440-17 as referenced in the 2018 IRC and 2018 IBC.

Impact Resistance:

System	Impact Resistant	Requirement
1-9	No	These products have not been tested for windborne debris resistance. An impact protection system is required when installing this product in areas where windborne debris protection is required.

Installation:

System		
1, 6, 7	Type of Installation	Install in accordance with Pella drawing 1473T; titled "Series 10/20 Vinyl Picture Window;" dated January 28, 2020. Signed and sealed by Warren W. Schafer, P.E. on July 17, 2020
	Wall Framing	
	Fasteners	
	Fastener Location/Spacing	
	Fastener Penetration	
2, 3, 4, 5, 8, 9	Type of Installation	Install in accordance with Pella drawing 1244T; titled "Series 20/25 Thermastar Vinyl Non-Impact Picture Windows;" dated January 28, 2020; Rev A dated April 21, 2021. Signed and sealed by Warren W. Schafer, P.E. on April 22, 2021
	Wall Framing	
	Fasteners	
	Fastener Location/Spacing	
	Fastener Penetration	

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.