

## Product Evaluation

WIN690 | 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-690

**Effective Date:** October 1, 2022

**Re-evaluation Date:** May 2023

**Product Name:** 150 Series/ThermaStar/Encompass/Avanti Vinyl Tilt Single Hung Windows, 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      | Flange Frame Vinyl Tilt Single Hung Windows; O/X | R-PG55 (36 x 62)-H      | +55 / -55 psf          |
| 2      | Flange Frame Vinyl Tilt Single Hung Windows; O/X | R-PG40 (36 x 90)-H      | +40 / -40 psf          |
| 3      | Flange Frame Vinyl Tilt Single Hung Windows; O/X | LC-PG60 (52.125 x 50)-H | +60 / -60 psf          |
| 4      | Flange Frame Vinyl Tilt Single Hung Windows; O/X | LC-PG50 (54 x 63)-H     | +50 / -50 psf          |
| 5      | Flange Frame Vinyl Tilt Single Hung Windows; O/X | LC-PG45 (54 x 90)-H     | +45 / -45 psf          |

**Product Dimensions:**

| System | Overall Size  | Operable Sash Size | Fixed Sash Daylight Opening Size |
|--------|---------------|--------------------|----------------------------------|
| 1      | 36" x 62"     | 34" x 30-1/8"      | 32-3/4" x 27-5/8"                |
| 2      | 36" x 90"     | 34" x 35"          | 32-3/4" x 51"                    |
| 3      | 52-1/8" x 50" | 50-1/8" x 24-1/2"  | 47-5/8" x 21-13/16"              |
| 4      | 54" x 63"     | 52" x 30-3/4"      | 50-3/4" x 28-1/8"                |
| 5      | 54" x 90"     | 52" x 35"          | 50-3/4" x 51"                    |

**Product Identification (Certification Label on Window):**

| System     |                                  |  |
|------------|----------------------------------|--|
| 1, 2, 3, 4 | Certification Agency             | WDMA   |
|            | Manufacturer's Name or Code Name | Pella Corporation  |
|            | Product Name                     | 150 Series or Thermastar or Encompass or Avanti - Single Hung                      |
|            | Test Standards                   | AAMA/WDMA/CSA 101/I.S.2/A440-08,11   |
| 5          | Certification Agency             | WDMA   |
|            | Manufacturer's Name or Code Name | Pella Corporation  |
|            | Product Name                     | 150 Series or Thermastar or Encompass or Avanti Single Hung by Pella – Single Hung |
|            | 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   |
|--------|------------------|---|
| 1-5    | 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 |                           |  |
|--------|---------------------------|--|
| 1-5    | Type of Installation      | Install in accordance with drawing No. 1414T, dated October 5, 2021. Signed and sealed by Warren W. Schaefer, P.E. on October 6, 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.