

Product Evaluation

WIN2221 | 0823

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-2221

Effective Date: August 1, 2023

Re-evaluation Date: March 2026

Product Name: Series 8400 Vinyl Awning Windows, Fin and Frame Installation, Impact Resistant

Manufacturer: Custom Window Systems, Inc.
1900 SW 44th Ave.
Ocala, FL 34474
(352) 368-6922

General Description:

| System | Description | Label Rating | Design Pressure Rating |
|--------|---|-------------------------------------|------------------------|
| 1 | Series 8400 Vinyl Awning Windows, Fin Installed | AP-C65 (48 x 36) Missile Level D | +65 / -65 psf |
| 2 | Series 8400 Vinyl Awning Windows, Frame Installed | AP-C65 (48 x 36) Missile Level D | +65 / -65 psf |

Product Dimensions:

| System | Overall Size | Operable Sash Size |
|--------|--------------|--------------------|
| 1-2 | 48" x 36" | 46" x 34" |

Product Identification (Certification Label on Window):

| System | | |
|--------|----------------------------------|--|
| 1 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR# 138-728 (Structural) CAR# 138-272 (Impact) |
| | Product Name | 8400 Awning w/ Fin Impact |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E1886/E1996-02,05 Missile Level D |
| 2 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR# 138-727 (Structural) CAR# 138-271 (Impact) |
| | Product Name | 8400 Awning w/ Flange Impact |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E1886/E1996-02,05 Missile Level D |

Impact Resistance:

| System | Impact Resistant | Requirement |
|--------|------------------|---|
| 1-2 | Yes | These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies. |

Installation:

| System | | |
|--------|---------------------------|---|
| 1 | Type of Installation | Nail Fin Installation |
| | Wall Framing | Southern Yellow Pine dimension lumber |
| | Fasteners | No. 8 x 1-1/2" PPH sheet metal screw and washer combo. |
| | Fastener Location/Spacing | 4" from each corner and 8" on center along the perimeter |
| | Fastener Penetration | Minimum of 1-1/2" into the wall framing |
| 2 | Type of Installation | Frame Installation |
| | Wall Framing | Southern Yellow Pine dimension lumber |
| | Fasteners | No. 10 x 2" PPH sheet metal screw and washer combo. |
| | Fastener Location/Spacing | Head/Sill: 6" from each corner and 12" on center Side Jambs: 6" from each corner and at the midpoint |
| | Fastener Penetration | 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 and the IBC.