

# PRODUCT EVALUATION

## SERIES 800 PROJECT OUT WINDOW - IMPACT

### REPORT

S8002.01-122-34-R0

SERIES 800 PROJECT OUT WINDOW - IMPACT

### RENDERED TO:

WIN-VENT ALUMINUM ARCHITECTURAL WINDOWS  
2401 SOUTH MAIN STREET  
FORT SCOOT, KS 66701

### PREPARED BY:

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### ORIGINAL ISSUE DATE

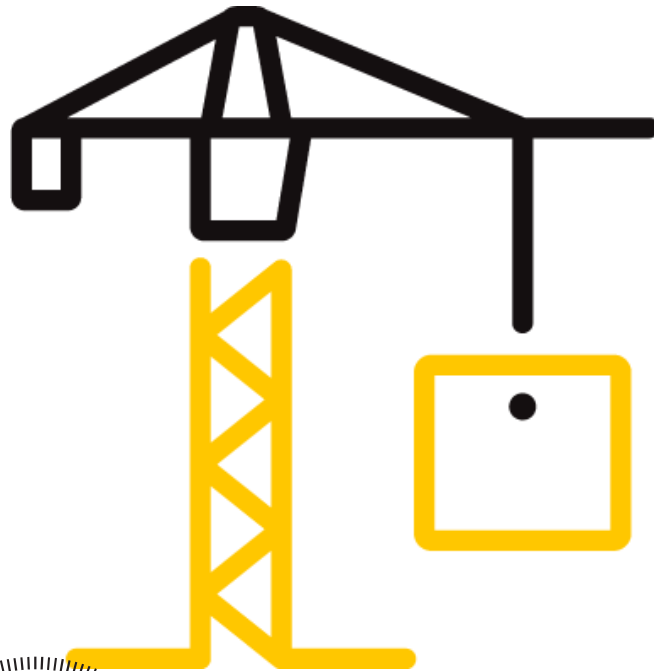
09/17/25

### LAST REVISED DATE

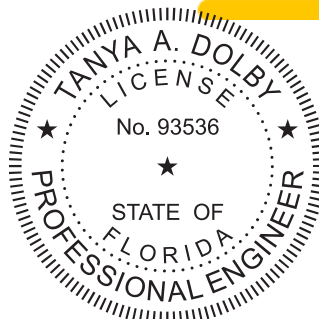
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### PAGES

11



Digitally Signed by: Tanya Dolby



Digitally Signed by: Diocel Almacén

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FL PE 93536  
FL REG 29274

9/18/2025 12:45 PM

Diocel Almacén  
Project Engineer

# RENDERED TO:

**Company Name:** Win-Vent Architectural Aluminum Architectural Windows

**Address:** 2401 South Main St.  
Fort Scott, Kansas 66701

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## 1 SCOPE

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Product Evaluation per Chapter 61G20-3.005(1)(d) Florida Administrative Code, Evaluation report from a Florida Registered Architect or a Licensed Florida Professional Engineer.

## 2 BUILDING CODE COMPLIANCE AND PERFORMANCE STANDARDS

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This product has demonstrated compliance with the Florida Building Code, Building, 8<sup>th</sup> Edition (2023):

- 1609.1.2 Protection of openings
- 1709.5 Exterior window and door assemblies
- 2404 Wind, Snow, Seismic and Dead Loads on Glass

Performance Standards

- AAMA/WDMA/CSA 101/I.S.2/A440-17
- ASTM E1996-20, ASTM E1886-19 and AAMA 506-16
- ASTM E1300-16

## 3 PRODUCT DESCRIPTION

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Window Frame 6063-T5 Aluminum

Extruded aluminum with poured and de-bridged thermal break.  
Mitered corners secured with corner keys, epoxy weld and crimp.

Glazing Insulating Glass:

The exterior is 1/4" thick fully tempered glass.

The interior is two sheets of 1/8" annealed glass and 0.090" thick Saflex PVB. Aluminum spacer.

Interior glazed to Dow 795 silicone back bed; wedge gasket and snap-in aluminum glazing bead applied at the interior.

Monolithic Glass:

Two sheets of 1/4" heat strengthened glass and 0.090" thick Saflex PVB. Interior glazed to Dow 795 silicone back bed; wedge gasket and snap-in aluminum glazing bead applied at the interior.

Validate glazing with ASTM E1300

Hardware 4-Bar hinge; one at each jamb, Cam handles; (3) at bottom rail/sill

Anchorage Per Installation section

For additional product information see Appendix A and attached product drawings.

## 4 REFERENCE DRAWINGS

- 800 Series Project Out Impact R2 2023 FBC, 07-18-2025

## 5 INSTALLATION

### Installation Instructions

| Substrate        | Instructions                                                                                                                                                                                  |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wood             | Minimum Spruce-Pine-Fir 2x (G = 0.42)<br>#12 Wood screw (box trim install) or 1/4" lag screw<br>(through-frame install)<br>(Shall conform to ANSI/ASME B18.6.1 and be corrosion<br>resistant) |
| Steel Stud       | Minimum 18 gauge (0.043" thick) 33 KSI steel stud<br>1/4-20 TEKS screw (through-frame install)<br>(see ICC ESR 1976)                                                                          |
| Grout-Filled CMU | ASTM C90, minimum $f'_m = 1,500$ psi<br>1/4" (through-frame install) ITW Buildex, Tapcon® Concrete<br>and Masonry Anchors with Advanced Threadform<br>Technology™ (see NOA 24-0102.06)        |
| Concrete         | Minimum $f'_c = 2,000$ psi<br>1/4" (through-frame install) ITW Buildex, Tapcon® Concrete<br>and Masonry Anchors with Advanced Threadform<br>Technology™ (see NOA 24-0102.06)                  |

### Limitations of Use:

| Product                                             | Maximum Design Pressures | Maximum Overall Size                                          | Maximum Glazing Size |
|-----------------------------------------------------|--------------------------|---------------------------------------------------------------|----------------------|
| Series 800 Project Out Window<br>(Insulating Glass) | +/- 70 psf               | 60" x 36"                                                     | 54-1/8" x 30-1/8"    |
| Series 800 Project Out Window<br>(Monolithic Glass) | +/- 60 psf               | 87" x 87"<br>(Twin)<br>(Fixed over Vent)<br>(3-Piece Mullion) | 39-1/2" x 39-3/4"    |
| Series 800 Project Out Window<br>(Monolithic Glass) | +/- 60 psf               | 45" x 87"<br>(Fixed over Vent)                                | 39-1/2" x 39-3/4"    |

Products have been tested for windborne debris resistance (Missile D, Wind Zone 4) and are approved for use in windborne debris regions without the use of protective devices (i.e. shutters).

Products are not approved for use in High Velocity Hurricane Zone (HVHZ).

## 6 SUPPORTING EVIDENCE

Test Report QCT10-1954.01 (AAMA/WDMA/CSA 101/I.S.2/A440-08) Revision -, 11/11/2010  
Quast Consulting & Testing, Inc. Mosinee, WI (TST8039)

Test Report QCT14-12675 (ASTM E1996-05, ASTM E1886-05, AAMA 506-06)  
Revision -, 12/30/2014  
Quast Consulting & Testing, Inc. Mosinee, WI (TST8039)

Test Report 97434.01-801-18 (ASTM E1996-05, ASTM E1886-05)  
Revision 1, 09/15/2014  
Architectural Testing, Inc. Plano, TX (TST1910)

Calculation Report S8002.01-122-34-R0, 09/12/2025  
Tanya A. Dolby, PE (FL PE 93536)

## 7 EQUIVALENCE OF STANDARDS

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Testing documented in QCT14-12675 was conducted to AAMA 506-06.

A comparison of this version of the standard and the current version referenced by the *Florida Building Code, Building, 8<sup>th</sup> Edition (2023)*, AAMA 506-16, confirms the standards are technically equivalent with respect to the testing documented in the referenced test report.

## 8 CERTIFICATION OF INDEPENDENCE

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In accordance with Rule 61G20-3 Florida Administrative Code,  
Intertek/Architectural Testing Inc. hereby certifies the following:

1. Intertek/Architectural Testing Inc. does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products tested or labeled by the agency.
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4. Tanya A. Dolby, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

## 9 DETAILED PRODUCT DESCRIPTION

**Finish:** Milled Aluminum

**Glazing Details:** Interior glazed against a back bedding compound at the exterior. Sealant compound was also applied inside the frame glazing pocket. Wedge gasket was located at the interior perimeter of the glazing. A snap-in aluminum glazing bead was located at the interior and secured against the glass. Units were glazed with Dow 795. Glazing bite on units was 1/2".

### Weatherstripping:

| Description                                   | Quantity | Location                                                                                                                | Joinery | Method |
|-----------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------|---------|--------|
| 0.147" x 0.210"<br>vinyl bulb                 | 1 row    | Top rail and stiles on interior<br>face of exterior vent leg<br>(bottom rail just had kerf<br>insert, bulb was removed) | Kerf    | Staked |
| 0.147" x 0.210"<br>vinyl bulb                 | 1 row    | Full perimeter interior face<br>of vent                                                                                 | Kerf    | Staked |
| 0.147" x 0.210"<br>Flat, three ridge<br>vinyl | 2 rows   | Each side of interior face of<br>mullion clip                                                                           | Kerf    | Staked |
| 0.147" x 0.210"<br>Flat, three ridge<br>vinyl | 2 rows   | Each side of interior face of<br>mullion clip                                                                           | Kerf    | Staked |

**Frame Construction:** All frame members were formed from thermally improved aluminum Extrusions (poured and debridged). Frame corners were mitered, sealed, and secured together with an aluminum crimped corner key measuring 2-1/2" x 1" x 1/4". Interior/exterior of frame corners had sealant compound applied. Sealant was also applied over exterior crimp locations. The interior leg of the vent opening jamb consisted of a piece of aluminum angle that was fastened down. Fasteners were #10 x 1/2" hex head screws located at 5" from outside edge of sill with the remaining at 11" on center spacing. Sealant was applied over screw heads. The horizontal integral mullion was secured to the jambs with two #10 x 1-1/2" screws at each location. Sealant was applied over screw heads and at the mullion corners inside vent opening. Both windows were joined together using a T-shaped mullion insert placed at the exterior. At each side of the mullion at the top and bottom were aluminum angles. These angles measured 3/4" wide x 2" long x 2" high x 1/8" thick. The angles were fastened through the mullion using a 1/4" x 1" hex head screw with nut (one at top and bottom). Each angle was secured to the buck with one 1/4" x 1-1/2" lag bolt. Sealant was applied over screw heads and angles. The mullion clip was fastened to the interior portion of the mullion with 1/4" x 1-1/2" Phillips pan head screws. Screws were located at 3" on center from outside edge of sill with the remaining at 8" on center spacing thereafter. A mullion cover snapped over the mullion clip at the interior.

**Vent Construction:** All vent members were formed from thermally improved aluminum extrusions (poured and debridged). Frame corners were mitered, sealed, and secured together with an aluminum crimped corner key measuring 2-1/2" x 1" x 1/4". Interior/exterior of frame corners had sealant compound applied. Sealant was also applied over exterior crimp locations.

**Hardware:** Each latch was secured to the vent stile using two #10 x 3/8" Phillips flat head screws. Each keeper was secured to the face of the mullion using two #10 x 1/4" Phillips flat head screws. The friction hinge was secured to the head of the vent with two #10 x 5/8" hex head screws and to the head of the frame with two #10 x 5/8" hex head screws. The five barrel hinges were secured to the vent stile with three #10 x 3/8" Phillips pan head screws and to the frame jambs (inserted into slots filled with sealant) with three #10 x 5/8" hex head screws. Sealant was applied over screw heads. Lift blocks were secured to the top of the sill with one #10 x 3/4" flat head Phillips screw.

| Description    | Quantity        | Location                                                |
|----------------|-----------------|---------------------------------------------------------|
| Latches        | 4 (2 each side) | Vent bottom rail, at 9" o.c. from outside edge of jambs |
| Keepers        | 4 (2 each side) | Sill, at 9" o.c. from outside edge of jambs             |
| Friction hinge | 4 (2 each side) | Connected each vent stile to frame jambs                |

**Drainage:**

| Description              | Quantity        | Location                                                                 |
|--------------------------|-----------------|--------------------------------------------------------------------------|
| Weep notch 1-1/4" x 1/8" | 4 (2 each side) | Exterior sill leg, 9" on center spacing from outer edge of each jamb     |
| Weep notch 1-1/4" x 1/8" | 4 (2 each side) | Intermediate sill leg, 9" on center spacing from outer edge of each jamb |

**Reinforcement:** No reinforcement was utilized

## 10 REVISION LOG

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| DATE     | PAGES | SUMMARY  |
|----------|-------|----------|
| 09/17/25 | All   | Original |

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