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PRODUCT EVALUATION

SERIES 800 CASEMENT WINDOW – NON IMPACT

REPORT
S8002.01-122-34-R0
SERIES 800 CASEMENT WINDOW – NON IMPACT

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

PREPARED BY:
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ARCHITECTURAL TESTING INC.
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ORIGINAL

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10

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RENDERED TO:	
Company Name:	Win-Vent Architectural Aluminum Architectural Windows
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	Fort Scott, Kansas 66701
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1 SCOPE

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

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

- 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 E1300-16

3 PRODUCT DESCRIPTION

Window Frame 6063-T5 Aluminum
Extruded aluminum with poured and de-bridged thermal break.
Mitered corners secured with comer keys, epoxy weld and crimp.

Glazing Insulating Glass:
The exterior is 1/4" thick fully tempered glass.
Aluminum spacer.
The interior is of 1/4" thick fully tempered glass.
Interior glazed to butyl tape; wedge gasket and snap-in aluminum glazing bead applied at the interior

Validate glazing with ASTM E1300

Hardware 4-bar hinges; one at head and one at sill Cam handles; three at lock stile

Anchorage Per Installation Instruction drawings

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4 REFERENCE DRAWINGS

- 800 Series Casement Non-Impact 2023 FBC, 07-18-2025

5 INSTALLATION

Installation Instructions

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

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Limitations of Use:

Product	Maximum Design Pressures	Maximum Overall Size	Maximum Glazing Size
Series 800 Casement Window (Insulating Glass)	+/- 80 psf	72" x 60" (Fixed beside Vent)	33-13/16" x 57-1/8"

Products have not been tested for windborne debris resistance and shall require protective devices (i.e. shutters) if installed in a windborne debris region.

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

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, 8th Edition (2023)*, AAMA 506-16, confirms the standards are technically equivalent with respect to the testing documented in the referenced test report.

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8 CERTIFICATION OF INDEPENDENCE

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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.

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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" vinyl bulb	1 row each vent	Top rail and stiles on interior face of exterior vent leg (bottom rail just had kerf insert, bulb was removed)	Kerf	Staked
0.147" x 0.210" vinyl bulb	1 row each vent	Full perimeter interior face of vent	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 vertical integral mullion was secured to the head and sill with two #10 x 1-1/2" screws at each location. Sealant was applied over screw heads and at the mullion corners inside vent openings.

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	6 (3 on each side)	Vent, at 9" o.c. from outside edge of head and sill of frame with one at midpoint
Keepers	6 (3 on each side)	Frame mullion, at 9" o.c. from
Friction hinge	2 (1 on each side)	Connected each head of vent to head of frame
Five-barrel hinge	6 (3 on each side)	Vent stile and frame jamb, 9" o.c. from outside edge of head and sill of frame with one at midpoint
Lift block	2 (1 on each side)	Sill, 2-1/2" o.c. from each edge of mullion

Drainage:

Description	Quantity	Location
Weep notch 1-1/4" x 1/8"	4 (2 on each side)	Exterior sill leg, 9" and 21-3/4" on center spacing from outer edge of each jamb
Weep notch 1-1/4" x 1/8"	4 (2 on each side)	Intermediate sill leg, 9" and 21-3/4" on center spacing from outer edge of each jamb

Reinforcement: No reinforcement was utilized

10 REVISION LOG

DATE	PAGES	SUMMARY
09/12/25	All	Original