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PRODUCT EVALUATION

SERIES 350 CASEMENT WINDOW - IMPACT

REPORT
S8002.01-122-34-R0
SERIES 350 CASEMENT WINDOW – IMPACT – R1

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

PREPARED BY:
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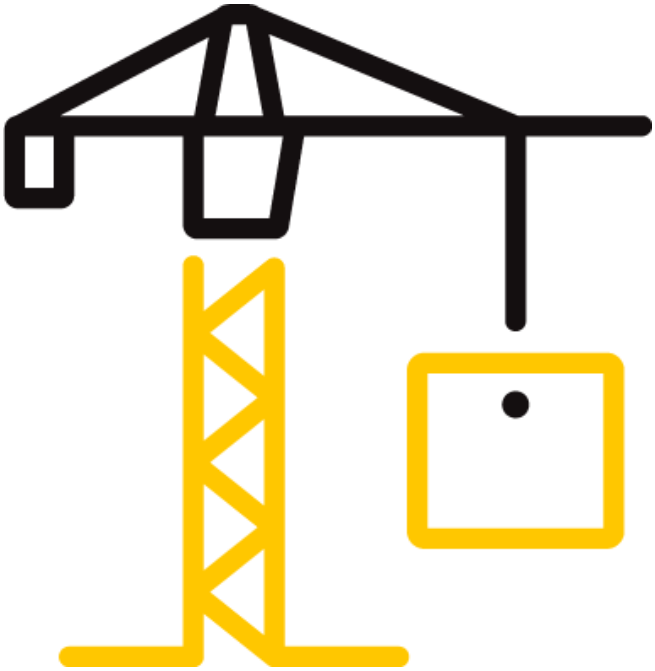

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1 SCOPE

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):

- 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

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.
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 top rail and one at bottom rail Cam locks with keepers; (3) at lock stile

Anchorage Per Installation Instruction drawings

4 REFERENCE DRAWINGS

- 350 Series Casement Impact R2 2023 FBC, 07-18-2025

5 INSTALLATION

Installation Instructions

Substrate	Instructions
Wood	Minimum Spruce-Pine-Fir 2x (G = 0.42) #10 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 #10-16 TEKS screw (box trim install) or 1/4-20 TEKS screw (through-frame install) (see ICC ESR 1976)
Concrete Masonry	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 = 3,000 psi 1/4" (through-frame install) ITW Buildex, Tapcon® Concrete and Masonry Anchors with Advanced Threadform Technology™ (see NOA 24-0102.06)

Limitations of Use:

Product	Maximum Design Pressures	Maximum Overall Size	Maximum Glazing Size
Series 350 Casement Window (Insulating Glass)	+/- 70 psf	36" x 60"	30-1/8" x 54-1/8"
Series 350 Casement Window (Monolithic Glass)	+/- 60 psf	90" x 60" (Fixed beside Vent)	41-1/2" x 55-1/2"

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

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.

8 CERTIFICATION OF INDEPENDENCE

In accordance with Rule 61G20-3 Florida Administrative Code,
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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 bed of Dow 795 silicone. A silicone based sealant was also applied. A 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. Glazing bite was 1/2".

Weatherstripping: 0.147" x 0.210" vinyl bulb gasket. Two rows; one row at interior perimeter of sash and one row at exterior perimeter of sash.

Frame Construction: All frame members were formed from thermally improved aluminum extrusions (poured and debridged). Frame comers were mitered, sealed, and secured together with an aluminum crimped comer key measuring 2-1/2" x 1" x 1/4". Interior/exterior of frame comers had sealant compound applied. Sealant was also applied over exterior crimp locations. The vertical integral mullion was secured at each end with two #10 x 1-1/2" screws. Screw heads were sealed with sealant.

Sash Construction: All sash members were formed from thermally improved aluminum extrusions (poured and debridged). Sash comers were mitered, sealed, and secured together with an aluminum crimped comer key. Interior/exterior of sash comers had sealant compound applied. Sealant was also applied over exterior crimp locations.

Hardware:4-Bar hinge; one at top rail and one at bottom rail Cam locks with keepers; (3) at lock stile

Drainage: 1-1/4" x 1/8" weep notch on sash leg at bottom rail; each end (two total).
1-1/4" x 1/8" weep notch on frame at sill; each end (two total).

Reinforcement: No reinforcement was utilized

10 REVISION LOG

DATE	PAGES	SUMMARY
09/12/25	All	Original
12/12/25	1, 5	Name Corrections