

PRODUCT EVALUATION

Series/Model 3010i-A4 Awning Window

REPORT NO.: 30351.01-106-11

RENDERED TO: St Cloud Window
390 Industrial Blvd
Sauk Rapids, MN 56379

PREPARED BY: Michael D. Stremmel, P.E.
Molimo, LLC
1410 Eden Road
York, Pennsylvania 17402

REPORT DATE: 3/11/2025

This item has been digitally signed and sealed by Michael D. Stremmel, PE on the date adjacent to the seal.

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A handwritten signature in black ink, appearing to read "Michael D. Stremmel".

Michael D. Stremmel, P.E.
Director – Engineering/Testing
FL PE 65868
FL REG 37122

It is a violation to alter this document in any way unless acting under the direction of a licensed professional engineer.

SCOPE:

Molimo, LLC was contracted by St Cloud Window to perform a product evaluation for their 3010i-A4 Awning. The Product Evaluation was performed per Chapter 16G20-3.05(1)(d) of the Florida Administrative Code, Evaluation report from a Florida Registered Architect or a Licensed Florida Professional Engineer.

BUILDING CODE COMPLIANCE:

This product as demonstrated compliance with the Florida Building Code, Building, 8th Edition (2023) sections as listed below:

§1609.1.2 Protection of Openings

§1709.5 Exterior window and door Assemblies

§2404 Wind, Snow, Seismic and Dead Loads on Glass

PERFORMANCE STANDARDS:

TAS 201, TAS 202, TAS 203, ASTM E1886-19, & ASTM E1996-20

PRODUCT DESCRIPTION:Frame

Extruded, thermally broken aluminum (6063-T6) with mitered, siliconed, and aluminum corner keys.

Glazing

The glazing was validated in accordance with ASTM E1300.

Glazing Type	Glazing Construction (exterior to interior)
1-1/2" Insulating Glass	1/8" Annealed – 0.030" thick AC – 1/8" Annealed
	9/16" Air Space
	1/4" Annealed – 0.090" thick PVB – 1/4" Annealed

Note:

- Interlayer for in the glass is the Kuraray Trosifol® Ultraclear, Clear PVB interlayer as documented in Miami-Dade NOA 24-0205.08.

Glass was exterior glazed against a screw-applied aluminum glazing stop, polyslim glazing tape and a Dow 995 toe bead with a Dow 791 cap bead. An snap-in glazing was utilized on the exterior. The glass incorporated a 3/4" glazing bite.

For additional product information see drawing 3010i-A4-1.

INSTALLATION:

Wood

Minimum Southern-Yellow-Pine 2x lumber ($G = 0.55$)
 #10 Wood Screw (Shall conform to ANSI/ASME B18.6.1 and be corrosion resistant)

Steel Stud

Minimum 18 gauge (0.043" thick), 33 KSI steel stud
 #12-14 TEKS Screw (see ICC ESR 1976)

Concrete

Minimum $f'_c = 3,000$ psi
 1/4" ITW Tapcon with Advanced Threadform Technology Concrete and Masonry Anchors
 (see NOA 24-0102.06).

Concrete Masonry

ASTM C90, minimum $f'_m = 1,500$ psi
 1/4" ITW Tapcon with Advanced Threadform Technology Concrete and Masonry Anchors
 (see NOA 24-0102.06).

Installation shall follow manufacturer's instructions, product approvals, and referenced installation drawings.

LIMITATIONS OF USE:

Product	Maximum Design Pressure	Impact Resistance	Maximum Overall Size	Maximum Panel Size
3010i-A4 2-Wide Awning	+70 psf / - 70psf	Large Missile Wind Zone 4	120" x 40"	58-1/2" x 38-1/2"
3010i-A4 Single Awning	+70 psf / - 70psf	Large Missile Wind Zone 4	60" x 40"	58-1/2" x 38-1/2"

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

Products are approved for use in the High Velocity Hurricane Zone (HVHZ).

SUPPORTING EVIDENCE:

Test Report QTC24-7455.01 (Rev 0), dated 2/7/2025 (TAS 201, TAS 202, TAS 203)
Quast Consulting and Testing. Mosinee, Wisconsin (TST8039)
Report sealed by Arlen Fisher, PE (FL PE 87795)

Calculation Report 30351.02-106-11-R0, dated 3/11/2025
Michael D. Stremmel, PE (FL PE 65868)

CERTIFICATE OF INDEPENDENCE:

In accordance with Rule 61G20-3 Florida Administrative Code, Molimo, LLC hereby certifies the following:

- Molimo, LLC 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.
- Molimo LLC is not owned, operated or controlled by any company manufacturing or distributing products it tests or labels.
- Michael D. Stremmel, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the reports are being issued.
- Michael D. Stremmel, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

REFERENCE DRAWINGS:

Product Drawings, DWG No. 3010i-A4-1, Sheets 1-3, & 6

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	3/11/2025	All	Original Report Issue