



MolimoTM
Architectural Product Testing

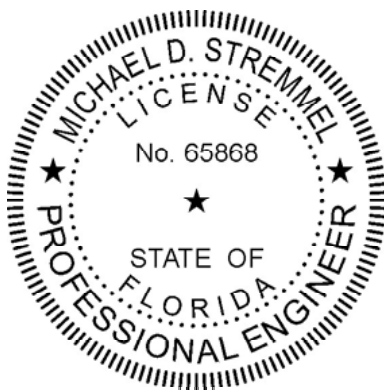
PRODUCT EVALUATION

Aspect/Endure Fixed Window

REPORT TO:

**PROVIA LLC
2150 STATE ROUTE 39
SUGARCREEK, OHIO 44681**

REPORT NUMBER: 27501.03-107-16-B (Rev 1)
REPORT DATE: 12/5/2024



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

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Michael D. Stremmel, PE
FL PE 65868
FL REG 37122

Subject: Aspect/Endure Fixed Window
ProVia LLC
2150 State Route 39
Sugarcreek, Ohio 44681

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.

Building Code Compliance: 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/A440-11
ASTM E1300-12ae1

Product Description: Window Frame Extruded Rigid Poly (Vinyl Chloride) (PVC)
Miter-cut corners and thermally welded.

Glazing: All glazing must be validated by ASTM E1300 for the project size

Glazing Type	Glazing Construction
GL1 (Insulating Glass)	3/16" Annealed to Exterior 3/16" Annealed to Interior
GL2 (Insulating Glass)	1/8" Annealed to Exterior 1/8" Annealed to Interior
GL3 (Insulating Glass)	3/32" Annealed to Exterior 3/32" Annealed to Interior

Interior glazed against double-sided adhesive tape and secured with rigid vinyl glazing bead. 1/2" bite.

Anchorage Various anchorages (see *Installation*)

For additional product information see Appendix A.

- Installation:**
- Wood: Minimum Spruce-Pine-Fir 2x (G = 0.42).
 #8 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.
 #10-16 TEKS screw (see ICC ESR 1976).
- Aluminum: Minimum 0.093" thick 6063-T5 aluminum.
 #10-16 TEKS screw (see ICC ESR 1976).
- Concrete: Minimum $f'_c = 3,000$ psi.
 3/16" 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.
 3/16" ITW Tapcon with Advanced Threadform Technology
 Concrete and Masonry Anchors (see N NOA 24-0102.06).

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

Limitations of Use:

Product	Maximum Design Pressures	Impact Resistance	Maximum Overall Size	Maximum Glazing Size
Aspect/Endure Fixed Window (Glazing Type GL1)	+50/-50 psf	N/A	79" x 65" & 65" x 79"	59-7/8" x 73-7/8"
Aspect/Endure Fixed Window (Glazing Type GL1)	+55/-55 psf	N/A	50" x 66"	44-7/8" x 60-7/8"
Aspect/Endure Fixed Window (Glazing Type GL2)	+55/-55 psf	N/A	40" x 52"	34-7/8" x 46-7/8"

Products have not been tested for windborne debris resistance and will 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).

Supporting Evidence: Test Report 29254.01-109-12 (AAMA/WDMA/CSA 101/I.S.2/A440-17)
Revision -, 9/5/2024
Molimo. Springdale, Pennsylvania (TST15431)

Calculation Report 27501.03-107-16-A (Rev 1) by Molimo
Revision 1, 12/5/2024
Michael D. Stremmel, PE (FL PE 65868)

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

1. 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.
2. Molimo, LLC is not owned, operated or controlled by any company manufacturing or distributing products it tests or labels.
3. 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.
4. 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: *Aspect/Endure Fixed*. Drawing 27501.03-1001. Revision 1, 12/5/2024.

Revision Log

<u>Identification</u>	<u>Date</u>	<u>Page & Revision</u>
Original Issue	11/16/23	Not Applicable
Rev. 1	12/5/24	Updated report for additional sizes and updated testing/certification

Appendix A – Detailed Product Description

Glazing Details: Interior glazed against double-sided adhesive tape and secured with rigid vinyl glazing bead. 1/2" bite.

Weatherstripping: None

Frame Construction: Extruded Rigid Poly (Vinyl Chloride) (PVC). Miter-cut corners and thermally welded.

Drainage: 1-1/8"x3/16" weep slot at sill exterior face; one each end.
1/2"x1/8" weep slot at glazing pocket; one each end.

Hardware: None

Reinforcement: None