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PRODUCT EVALUATION

Aspect/Endure Casement Window

REPORT TO:

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

REPORT NUMBER: NCTL-110-24425-12
REPORT DATE: 07/29/21

Joseph A. Reed, PE
FL PE 58920
FL REG 33474



Subject: Aspect/Endure Casement 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, 7th Edition (2020):
§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.

Window Sash Extruded Rigid Poly (Vinyl Chloride) (PVC)
Miter-cut corners and thermally welded.

Glazing Validate Glazing with ASTM E1300

Glazing Type	Glazing Construction
G1 (Insulating Glass)	1/8" Annealed to Exterior 1/8" Annealed to Interior

Exterior 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 16-1222.06).
 - Concrete Masonry: ASTM C90, minimum $f_m = 1,500$ psi.
3/16" ITW Tapcon with Advanced Threadform Technology
Concrete and Masonry Anchors (see NOA 16-1222.06).

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
<i>Aspect/Endure Casement Window (Glazing Type G1)</i>	+50/-50 psf	N/A	36" x 75"	32" x 71"

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 E1051.03-501-47 (AAMA/WDMA/CSA 101/I.S.2/A440-11)
Revision -, 02/19/16
Intertek. Springdale, Pennsylvania (TST7110)

Calculation Report NCTL-110-24425-11
Revision -, 07/29/21
Joseph A. Reed, PE (FL PE 58920)

Certification of Independence: In accordance with Rule 61G20-3 Florida Administrative Code,
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Reference Drawings: *Aspect/Endure Casement*. Drawing 24425-1-1006. Revision -, 07/29/21.

Revision Log

<u>Identification</u>	<u>Date</u>	<u>Page & Revision</u>
Original Issue	07/29/21	Not Applicable



Appendix A – Detailed Product Description

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

Weatherstripping: 1/4"x5/16" Vinyl foam-filled bulb. One row at vent perimeter.
3/16" dia. Vinyl foam-filled bulb. One row at frame perimeter.
1/4" dia. Vinyl foam-filled bulb. One row at frame perimeter.

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

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

Drainage: 1/4"x1/8" weep slot at bottom rail glazing pocket; one each end.
1/4"x1/8" weep slot at bottom rail; two each end.
1" notch each end of bottom rail weatherstripping.
1" notch each end of frame weatherstripping at sill.

Hardware: Lever lock with multi-point lock.	One (1) with 5 keepers	Lock jamb.
Die-cast snubbers	Two (2) sets	Hinge jamb.
Dual-arm rotary operator with guide track.	One (1)	Sill/bottom rail.
Concealed single-arm hinge w/ track.	Two (2)	One at head, one at sill.
Metal stud bracket	One (1)	Vent bottom rail.

Reinforcement: None