



# **NATIONAL CERTIFIED TESTING LABORATORIES**

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## **PRODUCT EVALUATION**

### ***Aspect/Endure Double Hung Window***

REPORT TO:

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

REPORT NUMBER: NCTL-110-24425-2  
REPORT DATE: 07/29/21

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



**Subject:** Aspect/Endure Double Hung Window  
ProVia LLC  
2150 State Route 39  
Sugar creek, 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, 7<sup>th</sup> 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:**

<b>Product</b>	<b>Maximum Design Pressures</b>	<b>Impact Resistance</b>	<b>Maximum Overall Size</b>	<b>Maximum Glazing Size</b>
<i>Endure</i> Double Hung (Glazing Type G1)	+50/-50 psf	N/A	44" x 75"	37" x 33"
<i>Aspect</i> Double Hung (Glazing Type G1)	+35/-35 psf	N/A	48" x 75"	41" x 33"

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 H0594.01-501-47 (AAMA/WDMA/CSA 101/I.S.2/A440-11)  
Revision 1, 05/21/21  
Intertek. Springdale, Pennsylvania (TST7110)

Test Report E1610.04-501-47 (AAMA/WDMA/CSA 101/I.S.2/A440-11)  
Revision -, 02/19/16  
Intertek. Springdale, Pennsylvania (TST7110)

Calculation Report NCTL-110-24425-1  
Revision -, 07/29/21  
Joseph A. Reed, PE (FL PE 58920)

**Certification of Independence:** In accordance with Rule 61G20-3 Florida Administrative Code,  
National Certified Testing Laboratories hereby certifies the following:

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**Reference Drawings:** *Endure/Aspect Double Hung*. Drawing 24425-1-1001. Revision -, 07/29/21.

### Revision Log

<u>Identification</u>	<u>Date</u>	<u>Page &amp; 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:**

0.260" dia. Vinyl foam-filled bulb.	One row at head.
0.187"x0.250" center fin w/pile.	One row at sill, top rail, bottom rail and lock rail.
0.187"x0.250" center fin w/pile.	Three rows at stiles.
7/8"x7/16" dust pad	Two; each end of lock rail
T-slot foam filled bulb.	One row at bottom rail and keeper rail
1" closed cell foam block	Two, top sash stiles at night latch

**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:**

- Sloped sill
- 1/2"x3/16" weep slot at screen track edge; one each end
- 4" wide weep notch at sill sash retention leg; one each end
- 2" wide weep notch at sill screen track; one each end
- 1/2"x1/4" weep slot at bottom rail glazing pocket; one each end

<b>Hardware:</b>	Cam lock and keeper.	Two (2) total	Lock rail, 8" from each end.
	Block and tackle balance.	Four (4) total	Two per jamb.
	Pivot bar	Four (4) total	Bottom rail, lock rail; one each end.
	Tilt latch	Two (2) total	Top rail; one each end
	Night latch	Two (2) total	Top sash stiles; one per stile.

**Reinforcement:** 44" x 75" Window:

Lock rail:	Polyurethane reinforced fiberglass
Keeper rail:	Polyurethane reinforced fiberglass