

Evaluation Report 161F
August 15, 2023

Product Description: Series 8400 PVC Casement Window, Large Missile Impact, DP67.5, 37" x 72" unit size with HS laminated glass, or 37" x 63" unit size with annealed laminated glass

Manufacturer: Custom Window Systems, Inc. 1900 SW 44th Ave, Ocala, FL 34474

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

- 1) This report, prepared by Lucas A. Turner, PE, at 2428 Old Natchez Trc Trl, Camden, TN
- 2) Approval drawing CWS-161F, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Reports NCTL-210-3673-1, -1A, -2, -2A, and NCTL-210-3674-1, -1A, -2, -2A, from National Certified Testing Laboratories, Orlando, FL signed and sealed by Gerard J. Ferrara, P.E., with testing performed with equivalency to: TAS 201/202/203-94, AAMA/WDMA/CSA 101/I.S.2/A440-08/11/17, ASTM E 1886-13a/19, and ASTM E 1996-14a/17/20
- 4) Supplemental Calculations to support CWS-161F, signed and sealed by Lucas A. Turner, P.E.

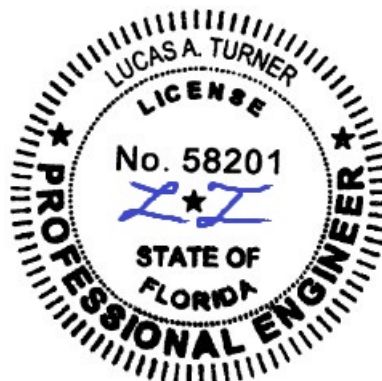
Installation: Units must be installed according to approval document CWS-161F.

Limitations of Use: This product:

- May be used in X config. in unit sizes up to 36" x 72" with 1/8" (HS or Temp.) outboard, -air-1/8HS-090PVB-1/8HS laminated inboard glass, or in unit sizes up to 36" x 63" with 1/8" (Ann. or Temp.) outboard, -air- 1/8Ann-090PVB-1/8Ann laminated inboard glass
- Requires outer lite in I.G. to be fully tempered when used in HVHZ above 30 ft of grade
- Requires max. glass daylight sizes as shown in CWS-161F
- Achieves design pressures of +/-67.5 psf
- Is large missile impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- Requires Kuraray Butacite PVB Interlayer per current Miami-Dade NOA[†]
- Requires Quanex or Veka white rigid PVC framing per current Miami-Dade NOA[†]

[†] I have evaluated these interlayer and framing materials and find that they comply with the requirements of the 8th Ed. (2023) Florida Building Code for use in this product.

Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Custom Window Systems or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.



8/15/2023
Lucas A. Turner, P.E.
FL PE #58201