

Evaluation Report 433F
August 4, 2023

Product Description: Series 8150 PVC Fixed Window, Large Missile Impact

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, P.E., at 2428 Old Natchez Trc Trl, Camden, TN
- 2) Approval drawing CWS-433F, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Reports NCTL-210-3566-1, -1A, -1B, and -1C, and NCTL-210-4011-01, -1A, -02, and -2A, from National Certified Testing Laboratories, Orlando, FL signed and sealed by Gerard J. Ferrara, P.E., with testing performed with equivalency to: AAMA/WDMA/CSA 101/I.S.2/A440-08/11/17, ASTM E1886-13a/19 and ASTM E1996-17/20, and TAS 201/202/203-94
- 4) Supplemental Calculations to support CWS-433F, signed and sealed by Lucas A. Turner, P.E.

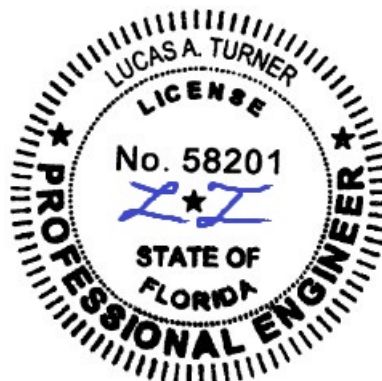
Installation: Units must be installed according to approval document CWS-433F.

Limitations of Use: This product:

- May be used in O config. in sizes and with glass DLO sizes as shown in CWS-433F
- Achieves a design pressure of +/-75 psf in unit sizes up to 36"x72" with 3/16Ann (or Tempered) – Air – 3/16Ann-.105PVB-3/16Ann glass minimum. Achieves a design pressure of +/-67.5 psf in unit sizes up to 72"x76" with 3/16 Tempered – Air – 3/16HS-.090SGP-3/16HS glass minimum.
- Is impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- Requires the use of tempered outboard glass above 30 ft of grade in HVHZ
- Requires Kuraray Butacite PVB Interlayer per current Miami-Dade NOA[†] in DP 75 units up to 36"x72", and requires Kuraray SentryGlas Interlayer per current Miami-Dade NOA[†] in DP 67.5 units up to 72"x76"
- 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.



8/4/2023
Lucas A. Turner, P.E.
FL PE #58201