

Evaluation Report 510E

August 4, 2023

Product Description: Series 8150 PVC Picture Window, Large Missile Impact, Continuous Head and Sill, twin configuration with integral mullion, 74 1/8" x 72" unit size DP67.5

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 HVHZ. 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-510E, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Reports NCTL-210-3622-1, -1A, -2, -2A 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, including impact at midspan of integral mullion, AAMA/WDMA/CSA 101/I.S.2/A440-08/11/17, ASTM E1886-13a/19, and ASTM E1996-17/20, including impact at midspan of integral mullion
- 4) Supplemental Calculations to support CWS-510E, signed and sealed by Lucas A. Turner, P.E.

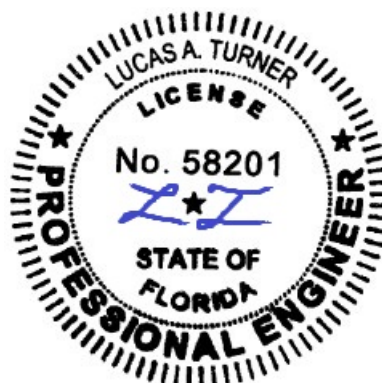
Installation: Units must be installed according to approval document CWS-510E.

Limitations of Use: This product:

- May be used in twin unit configuration O – integral mullion – O with continuous head and sill in sizes up to 74 1/8" x 72" unit size (36 3/8" max. single unit width), 75 3/8" x 73 1/4" flange size, with max. glass daylight sizes of 32 3/16" wide x 67 13/16" high
- Achieves a max. design pressure of +67.5/-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 3/16Ann or Temp – Air – 1/8Ann-.105PVB-1/8Ann glass minimum
- Requires outer lite in I.G. to be safety glass when used in HVHZ above 30 ft of grade
- 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.



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