

**Evaluation Report 491F**  
September 13, 2023

**Product Description:** Series 8100 PVC Single Hung Window, Large Missile Impact, Continuous Head and Sill, Twin Configuration with Integral Mullion

**Manufacturer:** Custom Window Systems, Inc. 1900 SW 44<sup>th</sup> 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 8<sup>th</sup> 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-491F, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Reports NCTL-210-3621-1, -1A, -2, -2A, National Certified Testing Laboratories, Orlando, FL, signed and sealed by Gerard J. Ferrara, P.E. , and PRI-1778T0012.01/02/03/1778T0018, by PRI Construction Materials Technologies, Tampa, FL, signed and sealed by Zachary R. Priest, with testing performed with equivalency to: TAS 201/202/203-94, AAMA/WDMA/CSA 101/I.S.2/A440-08/11/17, ASTM E1886-13a/19, and ASTM E1996-14a/17/20. Testing including impact at midspan of integral mullion
- 4) Supplemental Calculations to support CWS-491F, signed and sealed by Lucas A. Turner, P.E.

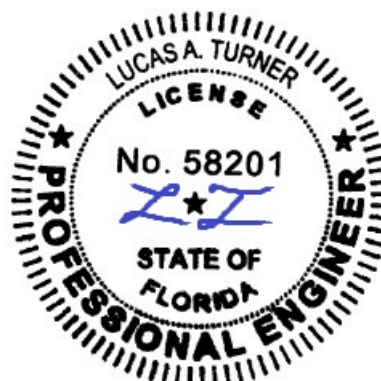
**Installation:** Units must be installed according to approval document CWS-491F.

**Limitations of Use:** This product:

- May be used in twin unit configuration O/X – integral mullion – O/X with continuous head and sill in sizes and design pressures as indicated in CWS-491F
- Is impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- Requires 1/8 outboard (Annealed or Tempered, Tempered required above 30 ft in HVHZ) – Air – 1/8Ann-.090PVB-1/8Ann glass minimum
- Requires PVB Interlayer: Kuraray Trosifol or Eastman Saflex per current Miami-Dade NOA<sup>†</sup>
- Requires Quanex or Veka white rigid PVC framing per current Miami-Dade NOA<sup>†</sup>

<sup>†</sup> I have evaluated these interlayer and framing materials and find that they comply with the requirements of the 7<sup>th</sup> Ed. (2020) 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.



9/13/2023  
Lucas A. Turner, P.E.  
FL PE #58201