TURNER
ENGINEERING &
CONSULTING, INC.

2428 Old Natchez Trace Trail
Camden, TN 38320
Ph. 941-380-1574

Evaluation Report 159H
August 17, 2026

Product Description: Series 8300 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 9th Edition (2026) 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-159H, signed and sealed by Lucas A. Turner, P.E.
3) Test Reports NCTL-210-3954-01 and -1A, and NCTL-210-3955-01 and -1A, from National Certified Testing Laboratories, Orlando, FL, with testing performed with equivalency to: AAMA/WDMA/CSA 101/I.S.2/A440-11/17, ASTM E1886-13a/19, ASTM E1996-17/20, and TAS 201/202/203-94 (TAS reports 3954-1A and 3955-1A signed and sealed by Gerard J. Ferrara, P.E.)
4) Supplemental Calculations to support CWS-159H, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval document CWS-159H.

Limitations of Use: This product:

- May be used in O configuration in sizes up to 48" x 72" unit size at design pressures of +/-55 psf, or in sizes up to 72" x 76" unit size at design pressures of +/-67.5 psf in HVHZ or +/-65 psf outside the HVHZ, with max. glass daylight sizes as shown in CWS-159H
- Is large missile impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- Requires outer lite in I.G. to be safety glass when used in HVHZ above 30 ft of grade
- Requires glazing as shown in CWS-159H, with Kuraray SentryGlas Interlayer per current Miami-Dade NOA† in DP65 or 67.5 units or Kuraray Butacite PVB Interlayer per current Miami-Dade NOA† in DP55 units
- 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 9th Ed. (2026) Florida Building Code for use in this product.

LUCAS A. TURNER
LICENSE
No. 58201
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Lucas Turner
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8/17/2026
Lucas A. Turner, P.E.
FL PE #58201

Coastal Compliance:

- Fastener criteria other than described below shall be in accordance with CWS-159H.
- Fasteners used in locations less than or equal to 300 ft from a saltwater coastline, where any portion of the fastener is located to the exterior of the Water-Resistive Barrier (WRB) of the wall construction, or is a Weather-Exposed Surface, or as otherwise required by the Authority Having Jurisdiction (AHJ), shall meet the criteria of FBC Sect. 1711.1.1.1 or RBC Section R332.1.1.1 as applicable.
    - For wood and metal installation substrates, requires stainless steel, 100 ksi min. ult. (cold worked).
    - For concrete/masonry substrates requires 1/4" Simpson Strong-Tie Type 316 Stainless-Steel Titen Turbo or 1/4" Dewalt Aggre-Gator 300 Series SS fasteners.
        - In solid concrete, 2.67 ksi min., requires 1-1/2" min. embedment and 1-1/2" min. edge distance.
        - In hollow or grout-filled CMU applications, ASTM C-90. requires 1-1/4" min. embedment and 2" min. edge distance.
- Fasteners used in locations less than or equal to 300 ft from a saltwater coastline, where the entire fastener is located to the interior of the WRB of the wall construction, or determined by the Registered Design Professional or AHJ for the project to be located within the Unconditioned Interior of the wall construction, or as otherwise required by the AHJ, shall meet the criteria of FBC Sect. 1711.1.1.2 or RBC Section R332.1.1.2 as applicable[††].
- Fasteners used in locations greater than 300 ft and up to 3000 ft from a saltwater coastline, in any Exterior/Interior location of the wall construction, or as otherwise required by the AHJ, shall meet the criteria of FBC Sect. 1711.1.1.2 or RBC Section R332.1.1.2 as applicable[††]

[††] ITW Tapcon and Dewalt Ultracon+ carbon steel fasteners as listed in Table 1 meet these criteria with coatings provided by the manufacturer. Kwik-Cote on Hilti Kwik-Flex and Climaseal on ITW TEKS fasteners also meet these corrosion resistance criteria. Other fasteners must be galvanized or otherwise coated in accordance with one of the standards provided in FBC Sect. 1711.1.1.2 or RBC Sect. R332.1.1.2.

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.

8/17/2026
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FL PE #58201