TURNER
ENGINEERING &
CONSULTING, INC.

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

Evaluation Report 176I
September 16, 2026

Product Description: Series 1000 Aluminum Guardian Swing Door, Non Impact, with SH-3500 Single Hung window insert

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 outside 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-176I, signed and sealed by Lucas A. Turner, P.E.
3) Test Report 1778T0031.01, from PRI Construction Material Technologies LLC, Tampa, FL, with testing performed: ANSI/WDMA/CSA 101/I.S.2/A440-17.
4) Supplemental Calculations to support CWS-176I, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval document CWS-176I.

Limitations of Use: This product:

- May be used in sizes, configurations, and with glazing as indicated in CWS-176I.
- Achieves design pressures of +/-40 psf
- Is nonimpact and requires the use of shutters in windborne debris regions
- May not be used in the High Velocity Hurricane Zone

Coastal Compliance:

- Fastener criteria other than described below shall be in accordance with CWS-176I.
- 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).

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

Lucas Turner
2026.09.18
14:26:46 -05'00'

9/16/2026
Lucas A. Turner, P.E.
FL PE #58201

- 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.

9/16/2026
Lucas A. Turner, P.E.
FL PE #58201