TURNER
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Evaluation Report ESCA-ESAWN-ESCAP-ESCATR for FL13630/13631/13632
September 25, 2026

Product Description: Essential Casement / Awning / Picture Window

Manufacturer: Marvin, 1616 43rd Street NW, Fargo, ND

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 for use outside 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 drawings 115053/115054, signed and sealed by Lucas A. Turner, P.E
3) Test Reports I7202/6/7.01-201-47-r0, from Intertek / Architectural Testing, St. Paul, MN
   a. Testing Performed: AAMA/WDMA/CSA 101/I.S.2/A440-11/17
4) Supplemental Calculations to support 115053/115054, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval documents 115053/115054.

Limitations of Use: This product:

- May be used up to the sizes indicated in 115053/115054
- Achieves design pressures of +/-40 psf
- Is non-impact and requires the use of shutters in windborne debris regions
- May not be used in the High Velocity Hurricane Zone
- Requires Ultrex Fiberglass framing as tested above

Coastal Compliance:

- Fastener criteria other than described below shall be in accordance with 115053/115054.
- 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.

Lucas Turner
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FL PE #58201

- For 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 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 Marvin 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.

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

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