TURNER
ENGINEERING &
CONSULTING, INC.

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

Evaluation Report UCAP-ST-IZ4-FPA-C
November 28, 2023

Product Description: Ultimate Casement Picture Stationary IZ4 Wood Window, LM Impact, max. frame size of 36" x 91-1/8" or 91-1/8" x 36"

Manufacturer: Marvin, Warroad, MN

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 High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

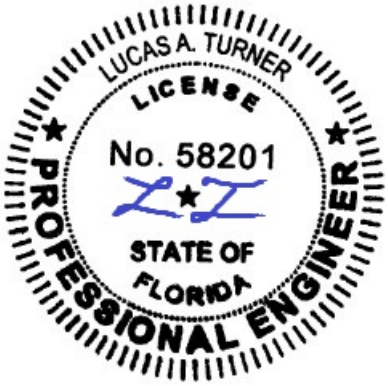
1) This report, prepared by Lucas A. Turner, P.E., at 2428 Old Natchez Trc Trl, Camden, TN
2) Approval drawing UCAP-ST-IZ4-FPA-C, signed and sealed by Lucas A. Turner, P.E
3) Test Report E4391.01-201-18-r0, from Intertek / Architectural Testing, St. Paul, MN, signed and sealed by Michael D. Stremmel, P.E.
    a. Testing Performed: TAS 201/202/203 1994
4) Supplemental Calculations to support UCAP-ST-IZ4-FPA-C, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval document UCAP-ST-IZ4-FPA-C.

Limitations of Use: This product:

- May be used up to sizes indicated above, with glass type as shown in UCAP-ST-IZ4-FPA-C. Width and height shown in UCAP-ST-IZ4-FPA-C may be transposed.
- Achieves design pressures of up to +70/-85 psf, see UCAP-ST-IZ4-FPA-C sheet 1
- 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 tempered in HVHZ when more than 30ft above grade.
- Requires Kuraray SentryGlas Interlayer per current Miami-Dade N.O.A. I have evaluated this interlayer material and find that it complies with the requirements of the 8th Ed. (2023) Florida Building Code for use in this product.
- Requires wood framing, Western Pine (G=0.43) minimum

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 Turner
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11/28/2023
Lucas A. Turner, P.E.
FL PE #58201