TURNER
ENGINEERING &
CONSULTING, INC.

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

Evaluation Report PEL-812C
October 7, 2026

Product Description: Series 510 PVC Single Hung, Large Missile Impact, 51 7/8" x 61 3/4" unit size, +/-70 PSF, no anchors in sill

Manufacturer: Pella Corporation, 102 Main Street, Pella, IA 50219

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 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 PEL-812C, signed and sealed by Lucas A. Turner, P.E.
3) Test Report NCTL-210-3815-1A, -2, and -2A, by National Certified Testing Laboratories, Orlando, FL, signed and sealed by Gerard J. Ferrara, 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, ASTM E 1886-13a/19, ASTM E 1996-17/20 and AAMA/WDMA/CSA 101/I.S.2/A440-11/17
4) Supplemental Calculations to support PEL-812C, signed and sealed by Lucas A. Turner, P.E.

Installation: Units must be installed according to approval document PEL-812C.

Limitations of Use: This product:

- May be used in O/X configuration in sizes and with max. glass DLO heights as shown in PEL-812C
- Is impact resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone
- Requires 7/8" Insulating Glass consisting of 1/8 Annealed or Tempered outboard lite (Tempered required above 30 ft in HVHZ) – Air – 5/16 Laminated (1/8Ann-.090PVB-1/8Ann) inboard lite
- Requires PVB Interlayer: Kuraray Trosifol or Eastman Saflex per current Miami-Dade NOA†
- Requires Quanex or Veka white rigid PVC framing per current Miami-Dade NOA†

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

Lucas Turner
2026.10.14 17:44:17 -05'00'

10/7/2026
Lucas A. Turner, P.E.
FL PE #58201

† 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.

Coastal Compliance:

- Fastener criteria other than described below shall be in accordance with PEL-812C.
- 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 Pella Corporation 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.

10/7/2026
Lucas A. Turner, P.E.
FL PE #58201