

PRODUCT EVALUATION REPORT	
Project No.: ACE-2024-212 & ACE-2026-202	Report No.: PER-ACE-1115, Rev. 1

Product Description: Series ES-V150 Fixed Windows

Product Manufacturer: ES Windows, 3550 NW 49th St., Miami, FL 33142

Code Compliance Statement: This report evaluates the fenestration product(s) listed above to the requirements of FAC Product Approval Rule 61G20-3.005. This product complies with the requirements of the 8th Edition (2023) Florida Building Code including and excluding the High Velocity Hurricane Zone (HVHZ) per the product testing standards listed below.

Compliance Method: Product Approval Rule 61G20-3.005(1)(a) – Certification Method

Documentation/References:

1. Installation Drawings. These drawings are in conformance with the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ) where applicable.
 - a. Installation Drawing No. SCS-0028, Rev. A, signed and sealed by Robert J. Amoruso, PE., Series ES-V150 Fixed Window, Vinyl, Large Missile Impact, HVHZ, 96" x 63".
 - b. Installation Drawing No. SCS-0029, Rev. A, signed and sealed by Robert J. Amoruso, PE., Series ES-V150 Fixed Window, Vinyl, Non- Impact, HVHZ, 60" x 55" and 48" x 36".
 - c. Installation Drawing No. SCS-0042, Rev. A, signed and sealed by Robert J. Amoruso, PE., Series ES-V150 Fixed Window, Vinyl, Non- Impact, Non-HVHZ, 84" x 72", 60" x 55" and 48" x 36".
 - d. Installation Drawing No. SCS-0055, Rev. 0, signed and sealed by Robert J. Amoruso, PE., Series ES-V150 Fixed Window, Vinyl, Large Missile Impact, Non-HVHZ, 48" x 96".
2. Test Report by PRI Construction Materials Technologies LLC, 6412 Badger Drive, Tampa, FL 33610
 - a. Test Report No. 2836T0004, dated 08/11/2025, Series ES-V150 Fixed Window, signed and sealed by Zachary Priest, FL PE No. 74021.
 - i. Shown on Installation Drawing No. SCS-0028.
 - ii. Test Standards
 1. HVHZ
 - a. TAS 201-1994
 - b. TAS 202-1994
 - c. TAS 203-1994
 2. Non-HVHZ
 - a. AAMA/WDMA/CSA 101/I.S.2/A440-17
 - b. ASTM E1996-20
 - c. ASTM E1886-19
 - d. ASTM E283/283M-19
 - e. ASTM E547-00(2024)
 - f. ASTM E330/E330M-14(2021)
 - g. ASTM F588-17(2023)

- iii. Specimen
 - 1. 96" x 63"
- iv. Design Pressure
 - 1. +/- 65 psf for all specimens
- v. Large Missile Impact and Missile Level D, Wind Zone 4
- b. Test Report No. 2836T0006, dated 08/11/2025, Series ES-V150 Fixed Window, signed and sealed by Zachary Priest, FL PE No. 74021.
 - i. Shown on Installation Drawing No. SCS-0029 and SCS-0042.
 - ii. Test Standards
 - 1. HVHZ
 - a. TAS 202-1994
 - 2. Non-HVHZ
 - a. AAMA/WDMA/CSA 101/I.S.2/A440-17
 - b. ASTM E283/283M-19
 - c. ASTM E547-00(2024)
 - d. ASTM E330/E330M-14(2021)
 - e. ASTM F588-17(2023)
 - iii. Specimen
 - 1. 84" x 72" (AAMA/WDMA/CSA 101/I.S.2/A440-17)
 - 2. 60" x 55" (AAMA/WDMA/CSA 101/I.S.2/A440-17 and TAS 202-94)
 - 3. 48" x 36" (AAMA/WDMA/CSA 101/I.S.2/A440-17 and TAS 202-94)
 - iv. Design Pressure
 - 1. +/- 65 psf for all specimens
- c. Test Report No. 2836T0017, dated 08/11/2025, Series ES-V150 Fixed Window.
 - i. Shown on Installation Drawing No. SCS-0055.
 - ii. Test Standards
 - 1. Non-HVHZ
 - a. AAMA/WDMA/CSA 101/I.S.2/A440-17
 - b. ASTM E1996-20
 - c. ASTM E1886-19
 - d. ASTM E283/283M-19
 - e. ASTM E547-00(2024)
 - f. ASTM E330/E330M-14(2021)
 - g. ASTM F588-17(2023)
 - iii. Specimen
 - 1. 48" x 96"
 - iv. Design Pressure
 - 1. +/- 50 psf for all specimens
 - 2. Missile Level D, Wind Zone 4
- 3. Calculations in support of installation requirements for SCS-0028, SCE-0029, SCS-0042, and SCS-0055 signed and sealed by Robert J. Amoruso, PE.
- 4. Glazing meets the requirements of ASTM E1300-16.

Component Certification and Code Conformance:

- Kuraray America Inc. SentryGlas interlayer code conformance per the currently issued Miami-Dade Notice of Acceptance (NOA) component approval to the 8th Edition (2023) Florida Building Code. See Miami-Dade NOA listing [here](#).
- Eastman Chemical Co. (MA) Saflex interlayer code conformance per the currently issued Miami-Dade Notice of Acceptance (NOA) component approval to the 8th Edition (2023) Florida Building Code. See Miami-Dade NOA listing [here](#).

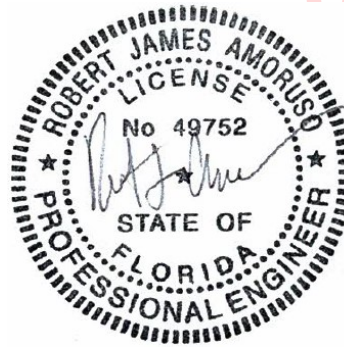
Limitations & Conditions of Use:

- The product covered by this Product Evaluation Report only be used in the configurations and product sizes as indicated in the installation drawings shown in Reference 1.
- These following products may be used in the High Velocity Hurricane Zone.
 - SCS-0028
 - SCS-0029
- This following products may NOT be used in the High Velocity Hurricane Zone.
 - SCS-0042
 - SCS-0055
- This following product has been tested with impact resistant glazing. The IGU and LAMINATED-IGU glazed products have been tested for impact resistance and can be used in wind borne debris regions including the HVHZ without additional impact protective devices.
 - SCS-0028
- This following product has been tested with impact resistant glazing. The IGU and LAMINATED-IGU glazed products have been tested for impact resistance and can be used in wind borne debris regions excluding the HVHZ without additional impact protective devices.
 - SCS-0055
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

**Certificate of Independence per Product
Approval Rule 61G20-3.009**

Robert J. Amoruso, P.E., does not have, nor will he acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

Robert J. Amoruso, P.E., does not have, nor will he acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



Digitally signed
by Robert J
Amoruso

Date:

2026.04.02

15:48:50 -04'00'

Evaluated by:
Robert J. Amoruso, P.E.
FL P.E. License No. 49752