

PRODUCT EVALUATION REPORT	
Project No.: ACE-2025-207	Report No.: PER-ACE-1166, Rev. 0

Product Description: Series ES-V200 Horizontal Sliding Windows, Various Configurations (see below)

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 (where applicable) 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 Drawing No. SCS-0049, Rev. 0, signed and sealed by Robert J. Amoruso, PE.
 - a. This drawing is in conformance with the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ)
 - b. Test Report by PRI Construction Technologies, LLC.
 - i. Test Report No. 2836T0009.01, Series ES-V200 H.S. Window (OX and XO), signed and sealed by Zachary R. Priest, PE.
 1. Test Standards
 - a. HVHZ
 - i. TAS 201-1994 (per-2023 FBC)
 - ii. TAS 202-1994 (per-2023 FBC)
 - iii. TAS 203-1994 (per-2023 FBC)
 - b. Non-HVHZ
 - i. AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ii. ASTM E1886-19
 - iii. ASTM E1996-20
 2. Specimen
 - a. 74" x 76"
 3. Design Pressure
 - a. +/- 60 psf for all specimens
 4. Large Missile Impact and Wind Zone 3, Missile Level D
2. Installation Drawing No. SCS-0050, Rev. 0, signed and sealed by Robert J. Amoruso, PE.
 - a. This drawing is in conformance with the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ)
 - b. Test Report by PRI Construction Technologies, LLC.
 - i. Test Report No. 2836T0011, Series ES-V200 H.S. Window (XOX-EQ), signed and sealed by Zachary R. Priest, PE.
 1. Test Standards
 - a. HVHZ
 - i. TAS 201-1994 (per-2023 FBC)
 - ii. TAS 202-1994 (per-2023 FBC)

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- iii. TAS 203-1994 (per-2023 FBC)
 - b. Non-HVHZ
 - i. AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ii. ASTM E1886-19
 - iii. ASTM E1996-20
 - 2. Specimen
 - a. 120" x 63"
 - 3. Design Pressure
 - a. +/- 50 psf w/o sill riser specimens
 - b. +/- 60 w/sill riser specimens
 - 4. Large Missile Impact and Wind Zone 3, Missile Level D
 - 3. Installation Drawing No. SCS-0051, Rev. 0, signed and sealed by Robert J. Amoruso, PE.
 - a. This drawing is in conformance with the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ)
 - b. Test Report by PRI Construction Technologies, LLC.
 - i. Test Report No. 2836T0013, Series ES-V200 H.S. Window (XOX-QHQ), signed and sealed by Zachary R. Priest, PE.
 - 1. Test Standards
 - a. HVHZ
 - i. TAS 201-1994 (per-2023 FBC)
 - ii. TAS 202-1994 (per-2023 FBC)
 - iii. TAS 203-1994 (per-2023 FBC)
 - b. Non-HVHZ
 - i. AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ii. ASTM E1886-19
 - iii. ASTM E1996-20
 - 2. Specimen
 - a. 120" x 63"
 - 3. Design Pressure
 - a. +/- 50 psf w/o sill riser specimens
 - b. +/- 60 w/sill riser specimens
 - 4. Large Missile Impact and Wind Zone 3, Missile Level D
 - 4. Installation Drawing No. SCS-0052, Rev. 0, signed and sealed by Robert J. Amoruso, PE.
 - a. This drawing is in conformance with the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ)
 - b. Test Report by PRI Construction Technologies, LLC.
 - i. Test Report No. 2836T0010, Series ES-V200 H.S. Window (OX and XO)
 - 1. Test Standards
 - a. Non-HVHZ
 - i. AAMA/WDMA/CSA 101/I.S.2/A440-17
 - 2. Specimen
 - a. 74" x 76"
 - 3. Design Pressure
 - a. +/- 55 psf and +/- 60 psf depending upon glazing IGU spacer. See installation drawing for details.

5. Installation Drawing No. SCS-0053, Rev. 0, signed and sealed by Robert J. Amoruso, PE.
 - a. This drawing is in conformance with the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ)
 - b. Test Report by PRI Construction Technologies, LLC.
 - i. Test Report No. 2836T0012, Series ES-V200 H.S. Window (XOX-EQ)
 1. Test Standards
 - a. Non-HVHZ
 - i. AAMA/WDMA/CSA 101/I.S.2/A440-17
 2. Specimen
 - a. 120" x 63" and 110" x 63"
 3. Design Pressure
 - a. +/- 50 psf w/o sill riser
 - b. +/- 60 w/sill riser specimens
6. Installation Drawing No. SCS-0054, Rev. 0, signed and sealed by Robert J. Amoruso, PE.
 - a. This drawing is in conformance with the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ)
 - b. Test Report by PRI Construction Technologies, LLC.
 - i. Test Report No. 2836T0014, Series ES-V200 H.S. Window (XOX-QHQ)
 1. Test Standards
 - a. Non-HVHZ
 - i. AAMA/WDMA/CSA 101/I.S.2/A440-17
 2. Specimen
 - a. 120" x 63"
 3. Design Pressure
 - a. +/- 50 psf and -45 psf w/o sill riser specimens dependent upon glazing. See installation drawing for details.
 - b. +/- 60 w/sill riser specimens.
7. Calculations in support of installation requirements for aforementioned installation drawing(s), signed and sealed by Robert J. Amoruso, PE.
8. Glazing meets the requirements of ASTM E1300-16.

Installation: Fenestration units shall be installed according to installation drawing(s) referenced above.

Component Certification and Code Conformance:

- Eastman Chemical Co. (MA) Saflex PVB 0.090 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](#).

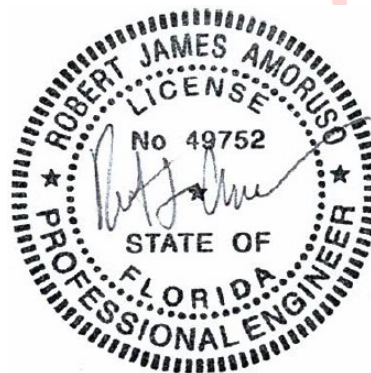
Limitations & Conditions of Use:

- Shall only be used in the configurations and product sizes as indicated on the installation drawing(s).
- This product may be used in the High Velocity Hurricane Zone as indicated on the installation drawing(s).
- This product has been tested with impact resistant glazing as shown in installation drawing number SCS-0049, SCS-0050 and SCS-0051.
 - The LAMINATED-IGU glazed product has been tested for impact resistance and can be used in wind borne debris regions including the HVHZ without additional impact protective devices.
- 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
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Evaluated by:
Robert J. Amoruso, P.E.
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