



PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> E.S. WINDOWS, Inc. 10653 NE Quaybridge Ct. Miami, FL 33138	<u>Product Name/Model & Description:</u> ES P300 - Casement - L.M.I & S.M.I
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Scope: This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

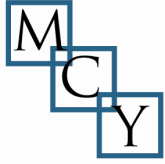
Code: 8th Edition Florida Building Code (2023)/ 9th Edition Florida Building Code (2026), inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

Product Description: Product Approval **Drawing #AD21-51** prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High-Velocity Hurricane Zone)
- Impact Resistance: **Large And Small Missile Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at the related maximum allowable size(s).
 - Other load limitations applicable to the product, if any.
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



Test Reports:

Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Fenestration Testing Laboratory FL33166	FTL-12889 <i>signed and sealed by</i> <i>Idalmis Ortega, PE</i>	12/20/2021	TAS 201 (large and small missile impact) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM E547 (Water Resistance Test) ASTM F588 (Forced Entry Test)
Black water technical services inc. 7341 Westport Pl Suite 1a West Palm Beach Fl. 33413	BT-ESW-23-020 <i>signed and sealed by</i> <i>Michael D Caldwell</i>	10/16/2024	TAS 201/ASTM E1996 (large missile impact) TAS 202 (uniform static test) TAS 203/ASTM E1886 (cyclic wind pressure loading) ASTM F588 (Forced entry) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test)
Black water technical services inc. 7341 Westport Pl Suite 1a West Palm Beach Fl. 33413	BT-ESW-24-001 <i>signed and sealed by</i> <i>Michael D Caldwell</i>	04/25/2025	TAS 201 (large and small missile impact) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM F588 (Forced Entry Test)

Engineering Analysis: The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor Notice of Acceptance by Miami Dade County.