

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-V150 VINYL FIXED WINDOW LMI & SMI
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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), inclusive of all Supplements effective as of this report date.

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

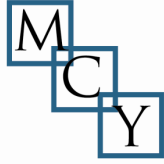
Product Description: Product Approval Drawing #AD23-10, prepared by MCY Engineering, signed and sealed by the Yiping Wang P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large Missile Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at 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.



December 12th, 2025

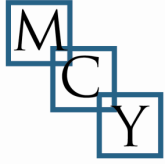


Test Reports:

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

Test Lab	Report Number	Test Report Date	Test Standard & Description
Element materials Technology 115 south 84 th ave Wausau, WI 54401, USA	ESP014633P-1 <i>signed and sealed by Ramesh C Patel, P.E.</i>	06/10/2021	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) TAS 202 (air infiltration) TAS 202 (water infiltration) ASTM F588 (forced entry test)
Element materials Technology 115 south 84 th ave Wausau, WI 54401, USA	ESP014634P-1 <i>signed and sealed by Ramesh C Patel, P.E.</i>	09/26/2013	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) TAS 202 (air infiltration) TAS 202 (water infiltration) ASTM F588 (forced entry test)
Element materials Technology 115 south 84 th ave Wausau, WI 54401, USA	ESP014635P-1 <i>signed and sealed by Ramesh C Patel, P.E.</i>	10/02/2013	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) TAS 202 (air infiltration) TAS 202 (water infiltration) ASTM F588 (forced entry test)
Element materials Technology 115 south 84 th ave Wausau, WI 54401, USA	ESP014637P-1 <i>signed and sealed by Ramesh C Patel, P.E.</i>	10/04/2013	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) TAS 202 (air infiltration) TAS 202 (water infiltration) ASTM F588 (forced entry test)
Element materials Technology 115 south 84 th ave Wausau, WI 54401, USA	ESP014638P-1 <i>signed and sealed by Ramesh C Patel, P.E.</i>	09/28/2013	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) TAS 202 (air infiltration) TAS 202 (water infiltration) ASTM F588 (forced entry test)
PRI Construction Materials Technologies LLC 6412 Badger Drive Tampa, FL33610	2836T0004. <i>signed and sealed by ZACHARY R. PRIEST, P.E.</i>	08/15/2025	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) TAS 202 (air infiltration) TAS 202 (water infiltration) ASTM F588 (forced entry test)
PRI Construction Materials Technologies LLC 6412 Badger Drive Tampa, FL33610	2836T0004A. <i>signed and sealed by ZACHARY R. PRIEST, P.E.</i>	08/15/2025	ASTM E1996 (large missile impact test) ASTM E1886 (cyclic wind pressure loading)

December 12th, 2025



MCY ENGINEERING, INC.
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Engineering Analysis: The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- Rational analysis has been performed per Code requirements and acceptable standards of engineering principles (but not in lieu of standard tests required by the Code). No increase in allowable stress has been used in the evaluation of this product.



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