

PRODUCT APPROVAL EVALUATION REPORT

<p><u>Product Manufacturer:</u> E.S. WINDOWS, Inc. 10653 NE Quaybridge Ct. Miami, FL 33138</p>	<p><u>Product Name/Model & Description:</u> Series 76MD balcony door - LMI</p>
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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

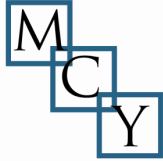
Product Description: Product Approval **Drawing #AD24-01**, prepared by MCY Engineering, signed and sealed by the Yiping Wang P.E., is an integral part of this Evaluation Report.

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.



June 19, 2024



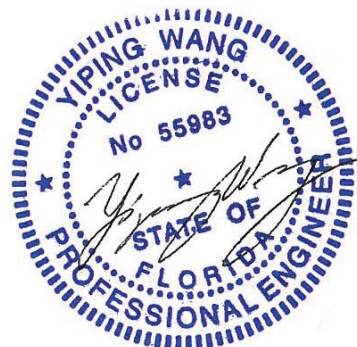
Test Reports:

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

Test Lab	Report Number	Test Report Date	Test Standard & Description
NCTL ORLANDO, FL32809	<i>NCTL-210-4101-01 signed and sealed by DOUGLAS J. MCDOUGALL, P.E.</i>	01/02/2018	TAS 201 (large missile impact) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air resistance) ASTM E330 (uniform static load) ASTM E331 (water penetration) ASTM F588 (forced entry test))
Intertek York, Pennsylvania 17406	<i>K0545.02-121-24 signed and sealed by Ethan Grove</i>	08/30/2019	ASTM E84 (Flame spread index)
ETC LAB Rochester, NY 14624-3102	<i>ETC-97-264-4091.0 Signed and sealed by Joseph L. Doldan, P.E.</i>	04/21/1998	ASTM D635 (Rate of burning) ASTM D1929(Determining ignition temperature of plastic) ASTM D2843 (Density of smoke from burning or decomposition of plastics) ASTM E84 (surface burning characteristics of building material) ASTM G26 (Standard practice for operating light exposure apparatus (Xenon Arc Type) with or without water for exposure of nonmetallic materials) ASTM D638 (Standard test method for tensile properties of plastics,)

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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