

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> Series ES SGD1010T sliding glass door – large missile impact
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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.

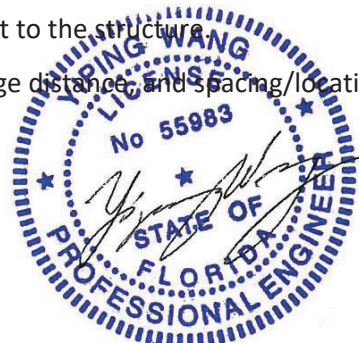
Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

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

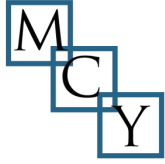
Product Description: Product Approval Drawing #AD24-18, #AD24-21 & #AD24-22 prepared by MCY Engineering, signed and sealed by the Yiping Wang P.E., is an integral part of this Evaluation Report.

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.



October 22nd, 2025



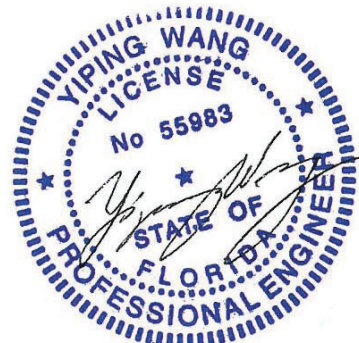
Test Reports:

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

Test Lab	Report Number	Test Report Date	Test Standard & Description
IFET, Inc 7839 NW 15 th Street Miami, FL33126	TR-IFET-23-0049 <i>signed and sealed by Arshad Viqar, P.E.</i>	06/24/2024	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration) ASTM E331 (water infiltration) ANSI Z97.1 (safety impact test)
IFET, Inc 7839 NW 15 th Street Miami, FL33126	TR-IFET-24-0036 <i>signed and sealed by Arshad Viqar, P.E.</i>	06/25/2024	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Intertek 130 Derry Court York, PA17406	60520.02-106-18 <i>Signed and sealed by Joseph A. Reed P.E.</i>	11/09/2006	ASTM G 155 (standard practice for operating xenon arc light apparatus for exposure of non-metallic materials.) ASTM D638 (tensile properties of plastic) ASTM D635 (rate of burning and/or extent and time of burning of plastics in a horizontal position). ASTM D 1929 (determining ignition temperature of plastic). ASTM D 2843 (density of smoke from the burning or decomposition 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.



October 22nd, 2025