MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301
Miramar, FL. 33027
Mobile: (305) 588-5224
Office: (305) 271-0117

PRODUCT APPROVAL EVALUATION REPORT

Product Manufacturer:	*Product Name/Model & Description:*
E.S. WINDOWS, Inc. **10653 NE Quaybridge Ct.** **Miami, FL 33138**	**ES-PSD 5030T PIVOT DOOR-LARGE MISSILE IMPACT**

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 #AD22-07** 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 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.

SHOP DRAWING / SUBMITTAL REVIEW
☑ APPROVED ☐ APPROVED AS NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED
SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOBSITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES, AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.
By: C.O. Date: 06/08/2026
ALAYM AGUILAR, P.E.
LIC# 92154

YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

February 26th, 2025

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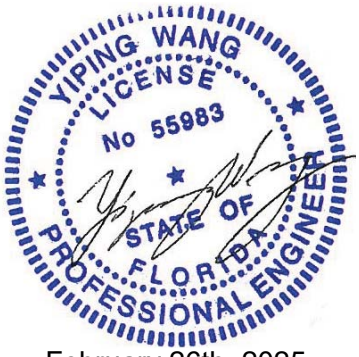
Test Reports:

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

Test Lab	Report Number	Test Report Date	Test Standard & Description
QAI Laboratories 8148 NW 74 Avenue Medley, FL,33166	*ES-22-1056* *Signed and sealed by Idalmis Ortega*	06.10.2022	TAS 201 (large missile impact test) TAS 202 (uniform static load) TAS 203 (cyclic wind load) ASTM E283 (air infiltration test) ASTM E331 (water resistance test) Forced entry test.
Blackwater Testing, Inc. West Palm Beach	*BT - ESW - 23 - 015 signed and sealed by Michael D Caldwell, P.E.*	10.16.2023	TAS 201 (large missile impact test) TAS 202 (uniform static load) TAS 203 (cyclic wind load)
Blackwater Testing, Inc. West Palm Beach	*BT - ESW - 23 - 054 signed and sealed by Michael D Caldwell, P.E.*	10.15.2024	TAS 201 (large missile impact test) TAS 202 (uniform static load) TAS 203 (cyclic wind load)

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.



February 26th, 2025