

PRODUCT APPROVAL EVALUATION REPORT

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| <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 VINYL TILT/TURN WINDOW – NON IMPACT.</p> |
|---|---|

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.

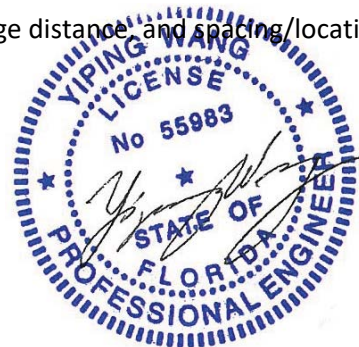
Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

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

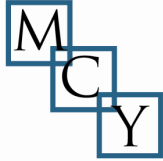
Product Description: Product Approval Drawing #AD24-09, prepared by MCY Engineering, signed and sealed by the Yiping Wang P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **outside of the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **non 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.



May 06, 2024



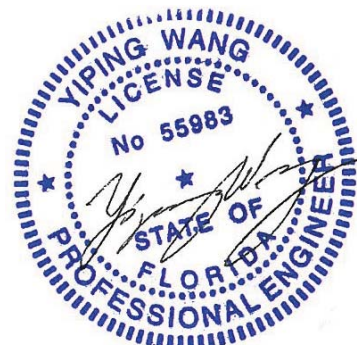
Test Reports:

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-210-4159-01 signed and sealed by DOUGLAS J. MCDOUGALL, P.E.</i> | 01/02/2018 | 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 E547 (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) |

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.



May 06, 2024