

PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> MIXLEGNO GROUP S.R.L. 12300 Wiles Rad, Coral Springs, FL 33321	<u>Product Name/Model & Description:</u> MIXLEGNO OUTSWING CASEMENT WINDOWS (Large Missile Impact & Small 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.

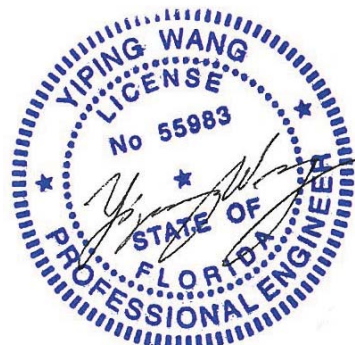
Code: 8th edition Florida Building Code 2023, inclusive of all Supplements effective as of this report date.

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

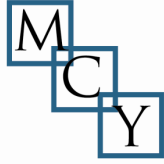
Product Description: Product Approval Drawing #AD18-42, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside/outside the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large Missile and Small 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.



March 26th, 2024

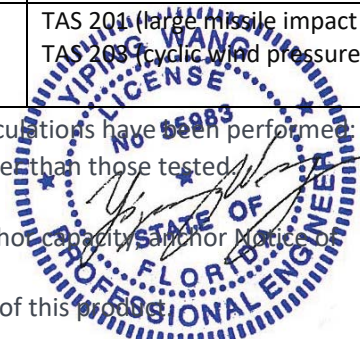


Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5078, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	09/25/2016	ASTM E283 (Air Infiltration) ASTM E331 (Water Infiltration) TAS 202 (Uniform Static Load) ASTM F558 (Force Entry Test)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5079, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	09/25/2016	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-15-5112, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	08/25/2015	ASTM E283 (Air Infiltration) ASTM E331 (Water Infiltration) TAS 202 (Uniform Static Load) ASTM F558 (Force Entry Test)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-15-5113, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	08/25/2015	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5118, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	09/28/2017	ASTM E283 (Air Infiltration) ASTM E331 (Water Infiltration) TAS 202 (Uniform Static Load) ASTM F558 (Force Entry Test)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5119, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	01/30/2017	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5120, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	09/29/2017	ASTM E283 (Air Infiltration) ASTM E331 (Water Infiltration) TAS 202 (Uniform Static Load) ASTM F558 (Force Entry Test)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5121, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	01/30/2017	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5115, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	01/30/2017	ASTM E283 (Air Infiltration) ASTM E331 (Water Infiltration) TAS 202 (Uniform Static Load) ASTM F558 (Force Entry Test)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5116, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	01/30/2017	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Hurricane Engineering & Testing Inc. (HETI) – Doral, FL	<i>HETI-16-5117, signed and sealed by Rafael E. Droz-Seda, P.E.</i>	01/30/2017	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)

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 Material Acceptance by Miami Dade County, or ASTM TIR A9-91.
- No increase in allowable stress has been used in the evaluation of this product.



March 26th, 2024