



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miarmar Parkway #301
Miarmar, FL. 33027
P: 305 271-0117

<u><i>Product Manufacturer:</i></u> Enviralum Industries INC. 5110 N.W. 72 AVENUE BLDG. C Miami, FL. 33166	<u><i>Product Name/Model & Description:</i></u> Series ENV-350 Aluminum Outswing Entrance Door (Floor Closure) - L.M.I –Large missile impact
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PRODUCT APPROVAL EVALUATION REPORT

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: 7th Edition Florida Building Code (2020), 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 #AD20-42 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 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.



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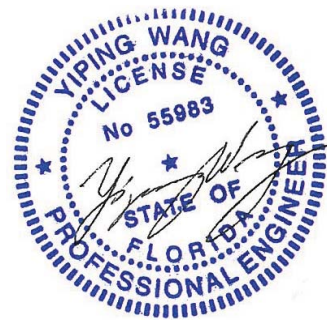
Test Reports:

Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS-02/TAS-202)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Blackwater Testing, Inc. West Palm Beach, FL 33413	<i>BT-ENI-16-004 signed and sealed by Constantin Bortes, P.E.</i>	04/06/2017	TAS 201 (large missile impact) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283(Air Infiltration Leakage.) AAMA 1304(Forced Entry Test) ASTM E330(Uniform Static Air Press) ASTM E1886/E1996(Large Missile Impact &Cyclic)

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.



December 30th, 2020