

MCY ENGINEERING, INC.  
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301  
Miramar, FL. 33027  
Mobile: (305) 588-5224  
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## PRODUCT APPROVAL EVALUATION REPORT

|                                                                                                                                                       |                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <u>Product Manufacturer:</u><br><b>Global Performance Window Inc. d.b.a. Epsilon USA</b><br>1881 SW 3 <sup>rd</sup> Street<br>Pompano Beach, FL 33069 | <u>Product Name/Model &amp; Description:</u><br><b>Aluminum Window Wall Series EUSA WW20</b><br>Aluminum Window Wall System (LMI) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|

**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.

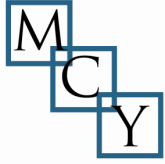
**Code:** 8<sup>th</sup> Edition 2023 Florida Building Code, inclusive of all Supplements effective as of this report date.

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

**Product Description:** Product Approval Drawing #AD15-17, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

### Limitations & Conditions of Use:

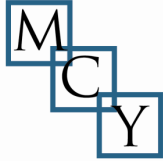
- This product has been evaluated for use **inside/outside the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large Missile Impact**
- Refer to Product Approval Drawing noted above for:
  - Maximum allowable wind loads at related maximum allowable size(s).
  - Other load limitations applicable 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.



**Test Reports:**

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

| Test Lab                                                      | Report Number                                                                                   | Test Report Date | Test Standard & Description                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fenestration Testing Lab<br>(FTL) – Medley, FL                | <i>FTL-10089.2</i><br><i>signed and seal by</i><br><i>Idalmis Ortega</i>                        | 04/19/18         | TAS 201 (large missile impact test)<br>TAS 202 (forced entry test, uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration)<br>ASTM E331 (water resistance test)                                                                       |
| Fenestration Testing Lab<br>(FTL) – Medley, FL                | <i>FTL-6037</i><br><i>signed and seal by</i><br><i>Idalmis Ortega</i>                           | 11/11/09         | TAS 201 (large missile impact test)<br>TAS 202 (forced entry test, uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration)<br>ASTM E547 (water resistance test)<br>ASTM E331 (water resistance test)                                  |
| Fenestration Testing Lab<br>(FTL) – Medley, FL                | <i>FTL-7913, signed</i><br><i>and seal by</i><br><i>Idalmis Ortega</i>                          | 02/11/15         | TAS 201 (small missile impact test)<br>TAS 202 (forced entry test, uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E331 (static pressure water resistance)<br>ASTM E283 (air infiltration)                                                            |
| Fenestration Testing Lab<br>(FTL) – Medley, FL                | <i>FTL-7657</i><br><i>signed and seal by</i><br><i>Idalmis Ortega</i>                           | 03/05/14         | TAS 201 (large missile impact test)<br>TAS 202 (forced entry test, uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E2068 (operating force test)<br>ASTM E283 (air infiltration)<br>ASTM E331 (water resistance test)<br>ASTM F842 (forced entry test) |
| Fenestration Testing Lab<br>(FTL) – Medley, FL                | <i>FTL-8225, Signed</i><br><i>and seal by</i><br><i>Idalmis Ortega</i>                          | 3/13/15          | TAS 201 (large missile impact test)<br>TAS 202 (forced entry test, uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration)<br>ASTM E331 (water resistance test)                                                                       |
| Architectural Testing,<br>Inc. (ATI) – West Palm<br>Beach, FL | <i>E5013.01-450-18,</i><br><i>signed and sealed</i><br><i>by Joseph A. Reed,</i><br><i>P.E.</i> | 8/18/15          | TAS 201 (large missile impact test)<br>TAS 202 (forced entry test, uniform static test)<br>TAS 203 (cyclic wind pressure loading)                                                                                                                                            |



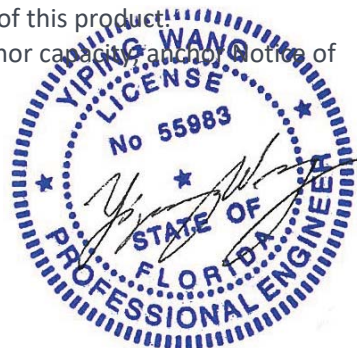
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|------------------------------------------------|-----------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excel Polymers, LLC. -<br>Burton, OH           | 61787                                                     | 7/25/07    | ASTM C 864 (EPDM rubber, seal gaskets,<br>setting blocks, and spacers, 60 duro)                                                                                                                               |
| Excel Polymers, LLC. -<br>Burton, OH           | 74326                                                     | 4/26/11    | ASTM C 864 (EPDM rubber, seal gaskets,<br>setting blocks, and spacers, 70 duro)                                                                                                                               |
| Fenestration Testing Lab<br>(FTL) – Medley, FL | 12428<br><i>signed and seal by<br/>Idalmis Ortega</i>     | 4/14/2021  | TAS 201 (large missile impact test)<br>TAS 202 (forced entry test, uniform static<br>test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration)<br>ASTM E331 (water resistance test)     |
| QAI<br>Medley, FL 33166                        | MED-2101A<br><i>signed and seal by<br/>Idalmis Ortega</i> | 07/24/2024 | TAS 201 (large missile impact test)<br>TAS 202 (uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration)<br>ASTM E331 (water resistance test)                           |
| QAI<br>Medley, FL 33166                        | MED-2084A<br><i>signed and seal by<br/>Idalmis Ortega</i> | 08/08/2024 | TAS 201 (large missile impact test)<br>TAS 202 (uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration)<br>ASTM E331 (water resistance test)<br>ANSI Z97.1 (drop test) |

**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.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor location of Acceptance by Miami Dade County.



September 4th, 2024