

MCY ENGINEERING, INC.  
GLAZING CONSULTANT

8501 SW 124th Ave. Ste. 205A  
Miami, FL. 33183  
P: 305 271-0117  
F: 305 279-6818

## PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> <b>Continental Glass Systems, Inc.</b> 325 West 74 Place Hialeah, FL 33014	<u>Product Name/Model &amp; Description:</u> <b>Series 2900 Sliding Glass Door</b> 2900 Sliding Glass Door – Large 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.

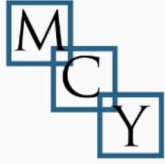
**Code:** 5<sup>th</sup> Edition Florida Building Code (2014), inclusive of all Supplements effective as of this report date.

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

**Product Description:** Product Approval Drawing #AD15-59, 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 **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.



## Test Reports:

### Mandatory Tests (Tested in accordance with AAMA 501)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Blackwater Testing, Inc. – West Palm Beach, FL	<i>BT-CON-15-003, signed and sealed by Yamil G. Kuri, P.E.</i>	05/20/2015	ASTM E283 (air infiltration) ASTM E331 (water resistance test) AAMA 1304 (forced entry test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Excel Polymers, LLC. Burton, OH	61787	7/25/07	ASTM C 864-05 (EPDM rubber, seal gaskets, setting blocks, and spacers, 60 duro)
Excel Polymers, LLC. Burton, OH	74326	4/26/11	ASTM C 864-05 (EPDM rubber, seal gaskets, setting blocks, and spacers, 70 duro)

**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.



August 21st, 2015