

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301
Miramar, FL. 33027
Mobile: (305) 588-5224
Office: (305) 271-0117

PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> SUNFLEX WALL SYSTEMS LP 4120 Enterprise Ave. Suite 118-120 Naples, FL 34104	<u>Product Name/Model & Description:</u> Series SF55 Inswing/Outswing Aluminum Folding Door - L.M.I. & S.M.I.
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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.

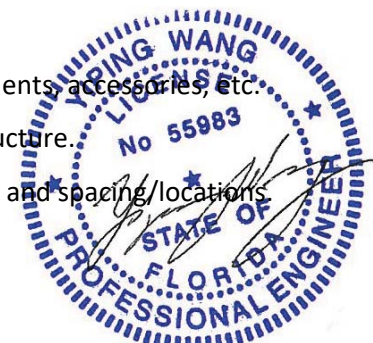
Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

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

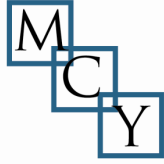
Product Description: Product Approval **Drawing #AD12-52**, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High-Velocity Hurricane Zone)
- Impact Resistance: **Large and Small Missile Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at the 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.



November 15th, 2023

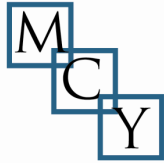


Test Reports:

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. – Doral, FL	HETI-10-3016	07/28/10	ASTM E283 (air infiltration) TAS 202 (uniform static test, forced entry test) ASTM E330 (uniform static air pressure) ASTM E331 (water infiltration) AAMA 1302.5 & 1303.5 (forced entry)
Hurricane Engineering & Testing, Inc. – Doral, FL	HETI-10-3152, signed and sealed by Rafael E. Droz-Seda	04/05/11	ASTM E283 (air infiltration) TAS 202 (uniform static test, forced entry test) ASTM E330 (uniform static air pressure) ASTM E331 (water infiltration) ASTM 547 (water infiltration) ASTM F588 (forced entry test)
Hurricane Engineering & Testing, Inc. – Doral, FL	HETI-12-4020, signed and sealed by Rafael E. Droz-Seda	05/22/12	TAS 202 (uniform static test, forced entry test) ASTM E330 (uniform static air pressure)
Hurricane Engineering & Testing, Inc. – Doral, FL	HETI-12-4014, signed and sealed by Rafael E. Droz-Seda	05/22/12	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) TAS 202 (uniform static test, forced entry test)
AKRON Rubber Development Laboratory, Inc. – Akron, OH	PN 107209A	01/22/2013	ASTM D412 (physical properties) ASTM D2240 (physical properties) ASTM D573 (heat aging) ASTM D395 (compression set) ASTM D624 (tear resistance) ASTM D1149 (ozone resistance) ASTM D746 (low temperature brittleness) ASTM D925 (staining of surface)





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Architectural Testing, Inc. – York, PA	ATI 60520.02-106-18, signed and sealed by Joseph A. Reed, P.E.	11/09/2006	ASTM G155 (operating Xenon arc light) ASTM D635 (rate of burning) ASTM D638 (tensile properties of plastics) ASTM D1929 (determining ignition temperature) ASTM D2843 (smoke density)
Hurricane Engineering & Testing, Inc. – Doral, FL	HETI-12-4021, HETI-12-4015, signed and sealed by Rafael E. Droz-Seda	05/22/12	ASTM E1886 (large missile impact test) ASTM E1996 (cyclic load test) 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.
- 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.



November 15th, 2023