



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL. 33027
P: 305 271-0117

PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> Trulite Glass & Aluminum Solutions, LLC. 403 Westpark Ct. Suite 201 Peachtree City, GA 30269	<u>Product Name/Model & Description:</u> CG500 Storefront/Window Wall System Aluminum storefront/window wall system with multiple infills for hurricane zones (wet/dry glazed)
---	--

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.

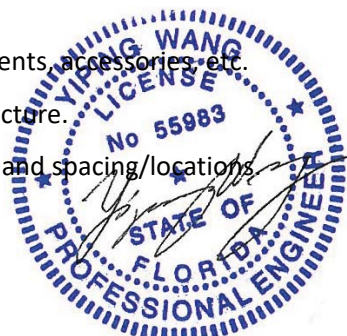
Code: 7th Edition Florida Building Code (2020), inclusive of all Supplements effective as of this report date.

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

Product Description: Product Approval **Drawing #AD15-07**, 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.



October 13th, 2022



Test Reports:

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

Test Lab	Report Number	Test Report Date	Test Standard & Description
Hurricane Test Laboratory, LLC. (HTL) – Lithia Springs, GA	<i>HTL-G553-0602-10 Signed and Sealed by Vinu J. Abraham P.E. FL Reg. #53820</i>	09/25/10	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E1886 (large missile impact test, doors) ASTM E1996 (cyclic load test, doors) ASTM E283 (air infiltration, doors) ASTM E331 (static pressure water resistance, doors) ASTM E330 (structural performance, doors)
Hurricane Test Laboratory, LLC. (HTL) – Lithia Springs, GA	<i>HTL-G553-0502-10 Signed by Vinu J. Abraham, P.E. FL Reg. #53820</i>	10/01/10	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E1886 (large missile impact test, curtain walls) ASTM E1996 (cyclic load test, curtain walls) ASTM E283 (air infiltration, curtain walls) ASTM E331 (static pressure water resistance, curtain walls) ASTM E330 (structural performance, curtain walls)
Hurricane Test Laboratory, LLC. (HTL) – Lithia Springs, GA	<i>HTL-G553-0704-10 Signed by Vinu J. Abraham, P.E. FL Reg. #53820</i>	08/02/10	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E1886 (large missile impact test, curtain walls) ASTM E1996 (cyclic load test, curtain walls) ASTM E283 (air infiltration, curtain walls) ASTM E331 (static pressure water resistance, curtain walls) ASTM E330 (structural performance, curtain walls)



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL. 33027
P: 305 271-0117

Hurricane Test Laboratory, LLC. (HTL) – Lithia Springs, GA	<i>HTL-G553-0902-10 Signed by Vinu J. Abraham, P.E. FL Reg. #53820</i>	10/01/10	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E1886 (large missile impact test) ASTM E1996 (cyclic load test) ASTM E283 (air infiltration) ASTM E330 (structural performance)
Excel Polymers, LLC. - Burton, OH	<i>61787-1 Signed by Bret Hunst</i>	7/25/07	ASTM C 864 (EPDM rubber, seal gaskets, setting blocks, and spacers, 60 duro)
Excel Polymers, LLC. - Burton, OH	<i>74326-1 Signed by Bret Hunst</i>	4/26/11	ASTM C 864 (EPDM rubber, seal gaskets, setting blocks, and spacers, 70 duro)
Intertek Total Quality Assured	<i>N1455.01-450-18 R0 Signed by Vinu J. Abraham</i>	04/13/22	TAS 201 (large missile impact test) TAS 202 (uniform static 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 Notice of Acceptance by Miami Dade County, or ASTM TIR A9-91.
- No increase in allowable stress has been used in the evaluation of this product.