



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 Court, Suite 201 Peachtree City, GA 30269	<u>Product Name/Model & Description:</u> Series 3000R Window Wall System Aluminum Window Wall System - Large and Small 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: 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 #AD18-17**, 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 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 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.



Test Reports:

Mandatory Tests (Tested in accordance with AAMA 501)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-9683 signed and sealed by Idalmis Ortega, P.E. FL# 76905</i>	12/21/2017	ASTM E283 (air infiltration) ASTM E331 (water infiltration) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-5421 signed and sealed by Idalmis Ortega, P.E. FL #76905</i>	07/21/2015	ANSI Z97.1 (specifications for safety of glazing materials) CPSC 16 CFR 1201 (safety standard for architectural glazing materials)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-5884 signed and sealed by Idalmis Ortega, P.E. FL #76905</i>	07/21/2015	TAS 201 (large missile impact test) TAS 202 (forced entry, uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-5956 (PG. 9 of test report 5884) signed and sealed by Julio E. Gonzalez P.E. FL #37275</i>	06/08/09	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-5893 signed and sealed by Michael R. Wenzel, P.E. FL #11490</i>	06/05/09	ASTM E283 (air infiltration) ASTM E331 (water infiltration) ASTM E547 (water infiltration) TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-5416 signed and sealed by Idalmis Ortega, P.E. FL #76905</i>	11/15/07	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-5172 signed and sealed by Michael R. Wenzel, P.E.</i>	2/08/07	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547 (water infiltration) ASTM E331 (static pressure water resistance)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-3998 signed and sealed by Edmundo J. Largaespada, P.E.</i>	12/12/03	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E330 (uniform static air pressure)



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Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-2221 (PG. 5 of test report 3633) signed and sealed by Edmundo J. Largaespada, P.E.</i>	11/04/03	ASTM E330 (uniform static air pressure) ASTM E547 (water infiltration) ASTM E331 (static pressure water resistance)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-3787 signed and sealed by Joseph Chan, P.E.</i>	05/15/03	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E330 (uniform static air pressure)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-3633 signed and sealed by Edmundo J. Largaespada, P.E.</i>	05/05/03	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E330 (uniform static air pressure)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-3326 signed and sealed by Luis Figueredo, P.E. FL #52627</i>	01/25/02	TAS 201 (large missile impact test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-3100 signed and sealed by Luis Figueredo, P.E. FL #52627</i>	06/21/01	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E330 (uniform static air pressure)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-3099 signed and sealed by Luis Figueredo, P.E. FL #52627</i>	06/21/01	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E330 (uniform static air pressure)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-1511 signed and sealed by Edmundo J. Largaespada, P.E.</i>	11/01/00	TAS 201 (large missile impact test) TAS 203 (large missile impact & wind pressure test)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-2631 signed and sealed by Aldo P. Gonzalez, P.E. FL #49450</i>	08/01/00	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547 (water infiltration) ASTM E331 (static pressure water resistance)



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Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-2511 signed and sealed by Aldo P. Gonzalez, P.E. FL #49450</i>	12/21/99	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547 (water infiltration) ASTM E331 (static pressure water resistance)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-2276 signed and sealed by Gilbert P. Diamond, P.E.</i>	02/15/99	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E330 (uniform static air pressure) ASTM E547 (water infiltration) ASTM E331 (static pressure water resistance)
Fenestration Testing Laboratory, Inc. (FTL) – Medley, FL	<i>FTL-1010 signed and sealed by Yamil G. Kuri, P.E. FL #44726</i>	11/16/98	ASTM E283 (air infiltration) ASTM E547 (water infiltration) ASTM E331 (static pressure water resistance)
INERTEK 2658 Electronics Way West Palm Beach, Florida 33407	<i>m7456.01-450-18- r0 signed and sealed by VINU J. ABRAHAM, P.E. FL #37275</i>	09/16/21	TAS 201 (large missile impact test) TAS 202 (forced entry test, uniform static test) TAS 203 (cyclic wind pressure loading)
INERTEK 2658 Electronics Way West Palm Beach, Florida 33407	<i>m3224.01-450-18- r0 signed and sealed by VINU J. ABRAHAM, P.E. FL #37275</i>	12/13/21	TAS 201 (large missile impact test) TAS 202 (forced entry test, 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.



December 16, 2021