



PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> Trulite Glass and Aluminum Solution 403 Westpark Ct. Suite 201 Peachtree City, GA 30269	<u>Product Name/Model & Description:</u> Series 3100 Storefront System Large and Small Missile Impact Storefront System
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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 #AD11-21**, 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.



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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 (FTL) – Medley, FL	<i>FTL-12037, signed and sealed by Idalmis Ortega, P.E.</i>	06/12/2020	TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration) ASTM E331 (water resistance test)
Excel Polymers, LLC. Burton, OH	74326	4/26/2011	ASTM C 864-05 (EPDM rubber, seal gaskets, setting blocks, and spacers, 70 duro)
Excel Polymers, LLC. Burton, OH	61787	7/25/2007	ASTM C 864-05 (EPDM rubber, seal gaskets, setting blocks, and spacers, 60 duro)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-5140, signed and sealed by Idalmis Ortega, P.E.</i>	1/20/2007	ASTM E330 (uniform static air pressure) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-5141, signed and sealed by Idalmis Ortega, P.E.</i>	1/18/2007	ASTM E330 (uniform static air pressure) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-4508, signed and sealed by Idalmis Ortega, P.E.</i>	1/20/2005	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547/E331 (water resistance test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-3942</i>	2/03/2004	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547/E331 (water resistance test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-3497</i>	8/13/2002	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547/E331 (water resistance test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)



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Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-3285</i>	12/18/2001	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547/E331 (water resistance test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-2617</i>	5/03/2000	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547/E331 (water resistance test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-2510</i>	12/21/1999	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547/E331 (water resistance test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
Fenestration Testing Lab (FTL) – Medley, FL	<i>FTL-2109</i>	10/13/1998	ASTM E283 (air infiltration) ASTM E330 (uniform static air pressure) ASTM E547/E331 (water resistance test) TAS 201 (large missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading)
INERTEK 2658 Electronics Way West Palm Beach, Florida 33407	<i>m7456.01-450-18-r0</i> <i>signed and sealed by</i> <i>VINU J. ABRAHAM,</i> <i>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</i> <i>signed and sealed by</i> <i>VINU J. ABRAHAM,</i> <i>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.



December 16, 2021