



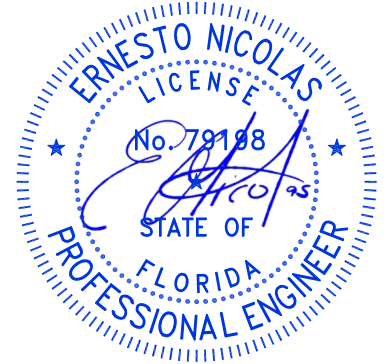
En3 Engineering & Consultancy

PRODUCT EVALUATION REPORT

Date: October 19, 2024

Product: **3000R IMPACT STOREFRONT SYSTEM**
Large Missile Impact Resistant (HVHZ)

Manufacturer: **Trulite Glass and Aluminum Solutions**
1750 Founders Pkwy, Suite. 154,
Alpharetta GA, 30009
P (800) 432-8132



Prepared by: Ernesto Nicolas, P.E. FL #79198

Scope: This report evaluates the above listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005, using Method 1-D (Engineering Evaluation). This product complies with the requirements of the 2023 Florida Building Code 8TH Edition, both inside and outside of the High Velocity Hurricane Zone.

Test Reports:

Test Laboratory	Report Number	Test Report Date	Test Standard
Intertek	Q7425.01-450-18-R0, signed and sealed by Tanya Dolby, P.E. FL#93536 & Miami-Date Test Proposal No. 23-0639 dated July 21, 2023	October 02, 2024	TAS 202, TAS 201, TAS 203
Intertek	M3224.01-450-18-R0, signed and sealed by Vinu Abraham, P.E. FL#53820	December 13, 2021	TAS 202, TAS 201, TAS 203
Intertek	M7456.01-450-18-R0, signed and sealed by Vinu Abraham, P.E. FL#53820	September 16, 2021	TAS 202, TAS 201, TAS 203
Fenestration Testing Laboratory	9683, signed and sealed Idalmis Ortega, P.E. 76905	December 21, 2017	TAS 202, TAS 201, TAS 203, ANSI Z97.1
Fenestration Testing Laboratory	5421, signed and sealed by Idalmis Ortega, P.E. 76905	October 18, 2007	ANSI Z97.1
Fenestration Testing Laboratory	5884, signed and sealed by Idalmis Ortega, P.E. 76905	May 28, 2009	TAS 202, TAS 201, TAS 203

Tested in accordance with AAMA 501 & FBC Section 2411.3.2.1.1

Test Laboratory	Report Number	Test Report Date	Test Standard
Fenestration Testing Laboratory	5956, signed and sealed by Julio E. Gonzalez P.E. FL #37275	June 5, 2009	TAS 202, TAS 201, TAS 203
Fenestration Testing Laboratory	5416, signed and sealed by Idalmis Ortega, P.E. 76905	November 15, 2007	TAS 201, TAS 203
Fenestration Testing Laboratory	5172, signed and sealed by Idalmis Ortega, P.E. 76905	January 25, 2007	TAS 202, TAS 201, TAS 203
Fenestration Testing Laboratory	3998, signed and sealed by Edmundo J. Largaespada, P.E.	December 10, 2003	TAS 202, TAS 201, TAS 203
Fenestration Testing Laboratory	2221, signed and sealed by Edmundo J. Largaespada, P.E.	December 9, 1998	ASTM E330, ASTM E547, ASTM E331
Fenestration Testing Laboratory	3787, signed and sealed by Joseph Chan, P.E.	April 4, 2003	TAS 202, TAS 201, TAS 203
Fenestration Testing Laboratory	3633, signed and sealed by Edmundo J. Largaespada, P.E.	April 24, 2003	TAS 202, TAS 201, TAS 203
Fenestration Testing Laboratory	3326, signed and sealed by Luis A Figueredo, P.E. FL#52627	January 9, 2002	TAS 201, TAS 203
Fenestration Testing Laboratory	1511, signed and sealed by Edmundo J. Largaespada, P.E.	January 16, 1997	TAS 201, TAS 203
Fenestration Testing Laboratory	2631, signed and sealed by Aldo P. Gonzalez, P.E. FL#49450	June 27, 2000	TAS 202, TAS 201, TAS 203
Fenestration Testing Laboratory	2511, signed and sealed by Aldo P. Gonzalez, P.E. FL#49450	December 21, 1999	ASTM E283, ASTM E330, ASTM E547, ASTM E331
Fenestration Testing Laboratory	2276, signed and sealed by Gilbert P Diamond, P.E.	February 15, 1999	TAS 202, ASTM E547, TAS 201, TAS 203
Fenestration Testing Laboratory	1010, signed and sealed by Yamil G. Kuri, P.E. FL#44726	October 25, 1994	ASTM E283, ASTM E547, ASTM E331



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Technical Documentation:

- 1) Installation Drawings #23FL-105 Rev. 1, Signed and Sealed by Ernesto Nicolas, P.E.
(FL# 79198)

Limitations of Use for this product:

- See Installation Drawings #23FL-105 Rev. 1 for approved anchor methods and spacing.
- Product is impact rated and does not require the use of shutters in windborne debris regions.
- May be used inside and outside the High Velocity Hurricane Zone.
- See Installation Drawings #23FL-105 Rev. 1 for size and design pressure limitations.
- Site conditions that deviate from the Installation Drawings #23FL-105 Rev. 1 require further engineering analysis by a licensed engineer or registered architect.