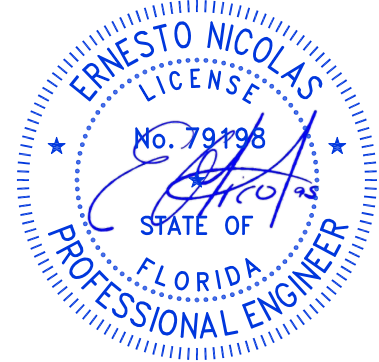


EQUIVALENCE OF STANDARDS EVALUATION

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



Code: 2023 Florida Building Code 8TH Edition

Compliance Method: FAC Product Approval Rule Chapter 61G20-3.015(5)(d) – Equivalence of Standards

Certification of Equivalence: The testing standards listed below, although not explicitly referenced within the above noted building code are hereby deemed equivalent for the purposes of determining this product's compliance with the above noted code.

Test Reports:

Test Laboratory	Report Number	Test Report Date
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
Intertek	M3224.01-450-18-R0, signed and sealed by Vinu Abraham, P.E. FL#53820	December 13, 2021
Intertek	M7456.01-450-18-R0, signed and sealed by Vinu Abraham, P.E. FL#53820	September 16, 2021
Fenestration Testing Laboratory	9683, signed and sealed Idalmis Ortega, P.E. 76905	December 21, 2017
Fenestration Testing Laboratory	5421, signed and sealed by Idalmis Ortega, P.E. 76905	October 18, 2007
Fenestration Testing Laboratory	5884, signed and sealed by Idalmis Ortega, P.E. 76905	May 28, 2009
Fenestration Testing Laboratory	5956, signed and sealed by Julio E. Gonzalez P.E. FL #37275	June 5, 2009

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

Performance Tests Conducted:

- TAS 202-94 (Air, Water and Uniform Static Load Tests)
- TAS 201-94 (Large and Small Missile Impact Test)
- TAS 203-94 (Cyclic Wind Pressure Load Test)

Equivalency Evaluation to AAMA 501-15:

- Code Requirements for testing to AAMA 501-15:
 - Section 1709.8.4 of the Florida Building Code requires glazed curtain wall, window wall and storefront systems to be tested in accordance with the requirements of this mentioned section and the laboratory test requirements of the American Architectural Manufacturers Association (AAMA) Standard 501 with HVHZ complying with Sections 2411.3.2.1. 1
 - This product is tested to HVHZ requirements and Product approval is for HVHZ. Therefore, Section 2411.3.2.1.1 governs with regards to test load sequence and load duration.

- All other requirements of Section 1709.8.4 must be met.
- Above listed test reports were conducted in accordance with TAS 202 and its required load sequence and load duration.
- Conformance to AAMA 501-15:
 - Laboratory Test requirements of AAMA 501-15 include sections listed as required and as optional and they are as follows:
 - Required Tests – All required testing were performed and documented in the above listed test reports and demonstrate compliance with FBC Sections 1709.8.4 and 2411.3.2.1.1 test load sequence and duration.
 - Test Load Sequence as per TAS 202:
 - ASTM E283 Air Leakage Test
 - ASTM E330 Preload Test at 50% DP
 - ASTM E330 Load Test at 100% DP
 - ASTM E331 Water Infiltration
 - ASTM E330 at 150% DP
 - The following sections in AAMA 501-15 are listed as optional and were not performed.
 - AAMA 501.1 Water penetration test under dynamic air pressure
 - AAMA 501.4 Inter-story lateral displacement test
 - AAMA 501.7 Inter-story vertical displacement test
 - AAMA 501.5 Thermal Cycling test
- Conclusion

Based on the above evaluation, the Laboratory Test requirements of the American Architectural Manufacturers Association (AAMA) Standard 501 with HVHZ complying with Section 1709.8.4 and Section 2411.3.2.1.1 of the 2023 Florida Building Code have been met.