

EQUIVALENCY EVALUATION REPORT	
Project No.: ACE-2024-119	Report No.: EER-ACE-1103, Rev. 0

Product Description: Series 650 Multi-Slide/Pocket Vinyl Sliding Glass Door, Impact and Non-Impact, Non-HVHZ

Product Manufacturer: Eastern Architectural Systems, 16341 Domestic Avenue, Fort Myers, FL 33912

Code Compliance Statement: This report evaluates the fenestration product(s) listed above to the requirements of FAC Product Approval Rule 61G20-3.005. This product complies with the requirements of the 8th Edition (2023) Florida Building Code excluding the High Velocity Hurricane Zone (HVHZ) per the product testing standards listed below and their equivalent standards in the 8th Edition (2023) FBC.

Compliance Method: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards

Documentation/References:

1. National Certified Testing Laboratories Test Report No. NCTL-201-4092-01, dated 1/15/18 (Revision) and Associated laboratory drawings. Performance standards used in testing are:
 - a. AAMA/WDMA/CSA 101/I.S.2/A440-11
 - b. AAMA/WDMA/CSA 101/I.S.2/A440-08
 - c. ASTM E1886-05
 - d. ASTM E1996-05/09
2. ETC Laboratories Report No. ETC-97-264-4091.0, dated 4/21/98, signed and sealed by Joseph L. Doldan, P.E., FL PE No. 42929. Performance standards used in testing are:
 - a. ASTM D635-96, Rate of Burning
 - i. Class C-1
 - b. ASTM D1929-96, Self-Ignition Temperature
 - i. 925° F > 650° F
 - c. ASTM D2843-93, Average Smoke Density Rating
 - i. 43% < 75
 - d. ASTM E84-95b, Flame Spread Index
 - i. 26.2 < 75
 - e. ASTM G26-95 and ASTM D638-96, Tensile Strength (Difference between Exposed & Unexposed)
 - i. 4.98% difference meeting Less than 10% tensile strength difference between G26 exposed and unexposed samples.

Component Certification and Code Conformance:

- Laminated Glazing Interlayer
 - Kuraray America Inc. SentryGlas interlayer code conformance per the current Miami-Dade Notice of Acceptance (NOA) found [here](#).
- PVC Lineal Framing Members:
 - Rigid vinyl approved under AAMA Master File No. 15-0333, White Rigid PVC Exterior Extrusions for Windows and Doors manufactured by Deceunick North America.
 - ETC Laboratories Report No. ETC-97-264-4091.0, dated 4/21/98, signed and sealed by Joseph L. Doldan, P.E., FL PE No. 42929.

Performance Testing (See Documentation section above for test report listings):

- Performance Standards used in testing, NON-HVHZ locations:
 - AAMA/WDMA/CSA 101/I.S.2/A440-11
 - AAMA/WDMA/CSA 101/I.S.2/A440-08
 - ASTM E1886-05
 - ASTM E1996-05/09
- PVC Lineal Framing Members Plastics Testing
 - ASTM D635-96
 - ASTM D1929-96
 - ASTM D2843-93
 - ASTM E84-95b
 - ASTM G26-95
 - ASTM D638-96

Performance Testing Equivalency Evaluation per Product Approval Rule 61G20-3.015(4)(d):

Test Report Ref. No.	Testing Standards Used		Testing Standards Required by 8 th Edition (2023) Edition of the Florida Building Code		Comments
	ASTM Designation	Year	FBC	FRC	
1	AAMA/WDMA/CSA 101/I.S.2/A440	11	11	11	See EVALUATION CONCLUSION below.
	AAMA/WDMA/CSA 101/I.S.2/A440	08	08	08	
	ASTM E1886	05	13A	13A	
	ASTM E1996	05/09	14A	14A	

Test Report Ref. No.	Testing Standards Used		Testing Standards Required by 8 th Edition (2023) Edition of the Florida Building Code		Comments
	ASTM Designation	Year	FBC	FRC	
2	ASTM D635	96	14	--	See EVALUATION CONCLUSION below.
	ASTM D1929	96	16	--	
	ASTM D2843	93	16	--	
	ASTM E84-95	95b	14A	--	
	ASTM G26	95	Replaced by G155-13	--	
	ASTM D638	96	03	--	

Reference 1 Test Report:

- Based upon my review of test results shown in the National Certified Testing Laboratories Test Reports (Reference 1) using ASTM E1886-05 and ASTM E1996-05/09, the requirements of those standards contained in the 8th Edition (2023) Florida Building Code have been met.

ASTM E1996 TESTING EVALUATION:

- 1) Wind Zone 4 testing
 - a. ASTM E1996-14 moved Wind Zone 4 criteria to the non-mandatory appendix. As indicated in Appendix X4.1, ASTM E1996-14a, the Wind Zone 4 requirement, though non-mandatory, is still present and may be specified when needed to meet specific building codes requirements. Those requirements are detailed in Sections 1609.1.2.2, 1609.1.2.4 and 1609.3 of the Florida Building Code. Based on a review of the test reports, those parameters are met.
 - 2) The Missile Level and Impact Speed used in testing are consistent with those currently required by the Florida Building Code and ASTM E1996.
 - 3) The static load (ASTM E330) and cyclic load (ASTM E1886/E1996) parameters used in testing are consistent with those currently required by the Florida Building Code.
 - 4) Therefore, testing is consistent with ASTM E1886-13a and ASTM E1996-14a contained in the 8th Edition (2023) Florida Building Code.
- AAMA/WDMA/CSA 101/I.S.2/A440-08 & 11 are contained in the 8th Edition (2023) Florida Building Code.

Reference 2 Test Report:

- Based upon my review of test results shown in the ETC Laboratories Test Report (Reference 3) using ASTM D635, D1929, D2843, E84, G26 (now G155), and D635, the requirements of those standards contained in the 8th Edition (2023) Florida Building Code have been met.

**Certificate of Independence per Product
Approval Rule 61G20-3.009**

Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

Robert J. Amoruso, P.E. does not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.

Evaluated by:
Robert J. Amoruso, P.E.
FL P.E. License No. 49752