

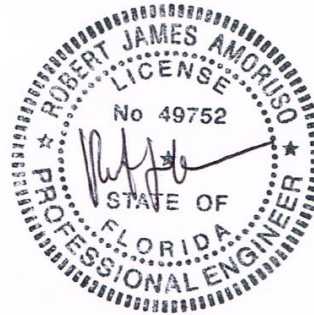


Equivalency Evaluation to the 8th Edition (2023) FBC

Date:	June 13, 2023
PTC Report No.:	2215-EER
Report Revision No.:	4
PTC Project No.:	422-0903
Product Mfg.:	Mitsubishi Chemical America, Alpolic Division 401 Volvo Parkway Chesapeake, VA 23320
Product Name:	ALPOLIC /ALPOLIC FR using the ACCU-TRACR SYSTEM by Altech Panel Systems, L.L.C.
Product Category:	Panel Walls
Product Sub-Category:	Products Introduced as a Result of New Technology
Compliance Method:	Product Approval Rule 61G20-3.015(4)(d) – Equivalence of Standards
Prepared By:	Robert J. Amoruso, P.E. Florida P.E. License Number 49752 PTC Product Design Group, LLC FBPE Certification of Authorization No. 25935

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by Robert J
Amoruso
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Evaluated by:
Robert J. Amoruso, P.E.
Florida P.E. License Number 49752

Scope

Evaluate equivalency of testing standards used for the performance testing of Mitsubishi Chemical America, Alpolic Division ALPOLIC /ALPOLIC FR using the ACCU-TRACR SYSTEM by Altech Panel Systems, L.L.C. for conformance to the Current Edition of the Florida Building Code – Building and Residential Volumes excluding the High Velocity Hurricane Zone (HVHZ).

Description of Product – Installation Requirements

See Reference 1.a for a description of the product, its installation and other pertinent data related to its approved use.

Performance and Testing Standards

Reference 1 conducted testing to the following standard(s).

- 1) TAS201-94, Impact Test Procedures.
- 2) TAS202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
- 3) TAS203-94, Criteria for Testing Products Subjected to Cyclic Wind Pressure Loading.
- 4) ASTM E84-95, Standard Test Method for Surface Burning Characteristics of Building Materials
- 5) ASTM E84-97, Standard Test Method for Surface Burning Characteristics of Building Materials
- 6) ASTM D1929-91a, Standard Test Method for Determining Ignition Temperature of Plastics

Equivalency Evaluation

The changes in revision level of the ASTM Standard Test Methods and Practices as part of the Current Edition of the FBC/FRC have been reviewed and found not to affect the method of testing, acceptance criteria, or reporting criteria in such a manner as to result in any change in the performance of the aforementioned product. As such, test results obtained from testing to these standards are valid for demonstrating compliance to the Current Edition of the FBC/FRC. The following table compares the revision levels of the Standards used in testing vs. those required by the Current Edition of the FBC/FRC. It has been determined that Standards used in testing are equivalent to those in the Current Edition of the FBC/FRC in accordance with Product Approval Rule 61G20-3.015(4)(d) – Equivalence of Standards.

PERFORMANCE TESTING		Revision Level used in Testing	2023 Edition of the Florida Building Code		Comments
Organization	Document		FBC	FRC	
ASTM	E84	95	18b	18b	Older Revision level used in testing from that required by Current Edition of the Code
	E84	97	18b	18b	Older Revision level used in testing from that required by Current Edition of the Code
	D1929	91a	16	---	Older Revision level used in testing from that required by Current Edition of the Code

The changes to TAS 201, TAS 202 and TAS 203 have been reviewed and found not to affect the method of testing, acceptance criteria, or reporting criteria in such a manner as to result in any change in the performance of the aforementioned product. As such, test results obtained from testing to these standards are valid for demonstrating compliance to the Current Edition of the FBC/FRC.

References and Supporting Document

1) Tests

- a. Southwest Research Institute, Report No. 01-8361-320d, dated 9/18/1997, Flame Spread Index and Smoke Developed Index testing to ASTM E84-97.
- b. Southwest Research Institute, Report No. 01-7520-359a, dated 9/26/1996, Flame Spread Index and Smoke Developed Index testing to ASTM E84-95.
- c. Southwest Research Institute, Report No. 01-8361-038, dated 10/28/1996, Ignition Properties testing to ASTM D1929-91a.
- d. National Certified Test Lab, Report No. NCTL-210-3064-1, Issued 1/11/05 and Revised 5/11/09, Performance Testing for AWS and Impact/Cyclic Loading to TAS 201-94, TAS 202-94 and TAS 203-94

2) Current Edition of the Florida Building Code including the 8th Edition (2023) Florida Building Code

- a. Building
 - i. Chapter 35 Reference Standards
- b. Residential
 - i. Chapter 46 Reference Standards
- c. Test Protocols
 - i. TAS201-94, Impact Test Procedures.

- ii. TAS202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
- iii. TAS203-94, Criteria for Testing Products Subjected to Cyclic Wind Pressure Loading.