

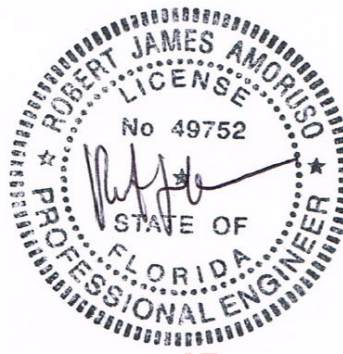


Equivalency of Standards Evaluation

Date:	August 23, 2023
PTC Report No.:	2229-EER
Report Revision No.:	4
PTC Project No.:	423-0801
Product Mfg.:	Butler Manufacturing Company 1540 Genessee St. Kansas City, MO 64102
Product Name:	Butlerib II HVHZ Wall LITE*PANL
Product Category:	Panel Walls
Product Sub-Category:	Siding
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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Scope

Evaluate equivalency of testing standards used for the performance testing of Butler Manufacturing Company's Butler II HVHZ Wall LITE*PANL for conformance to the 8th Edition (2023) Florida Building Code – Building and Residential Volumes including the High Velocity Hurricane Zone (HVHZ).

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 E84-07, Standard Test Method for Surface Burning Characteristics of Building Materials
- 5) ASTM D1929-96(2000)e1, Standard Test Method for Determining Ignition Temperature of Plastics
- 6) ASTM D635-03, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position
- 7) ASTM D638-03, Standard Test Method for Tensile Properties of Plastic
- 8) ASTM G155-05a, Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

Equivalency Evaluation

The changes in revision level of the ASTM Standard Test Methods and Practices as part of the 8th Edition (2023) Florida Building Code 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 product. As such, test results obtained from testing to these standards are valid for demonstrating compliance to the 8th Edition (2023) Florida Building Code. The following table compares the revision levels of the Standards used in testing vs. those required by the 8th Edition (2023) Florida Building Code. It has been determined that Standards used in testing are equivalent to those in the 8th Edition (2023) Florida Building Code in accordance with Product Approval Rule 61G20-3.015(4)(d) – Equivalence of Standards.

PERFORMANCE TESTING		Revision Level used in Testing	8th Edition (2023) of the FBC
Organization	Document		
ASTM	E84	2007	18b
	D638	2003	03
	D635	2003	2014
	G155	2005a	2013
	D1929	96(2000)e1	2016

TAS 201, TAS 202 and TAS 203 testing was conducted in May of 2013. The test methods and results have been compared to the requirements in the corresponding HVHZ test protocols in the 8th Edition (2023) of the FBC. The results documented and methods used in testing are consistent with the current requirements of the 8th Edition (2023) Florida Building Code.

References and Supporting Document

1) Test Reports

a. Performance Testing

- i. ATI Report No. B8760.02-450-1, dated 5/2/13, TAS 201-94, TAS 202-94 and TAS 203-94 testing.

b. Plastics Testing

i. 200 IFW 8.0 interior fiberglass reinforced panel

1. ATI Report No. B8609.02-106-18, dated 11/07/12, ASTM D1929- 96(2000)e1 self-ignition temp.
2. ATI Report No. B8609.03-121-24, dated 11/09/12, ASTM E84-07 smoke developed index (smoke density).
3. ATI Report No. B8609.02-106-18, dated 11/07/12, ASTM D635-03 Rate of Burn Classification
4. ATI Report No. B8609.01-106-18, dated 12/19/12, ASTM D638-03/G155-05a Outdoor Exposure - tensile strength change.

ii. 200 STW 8.0 exterior fiberglass reinforced panel

1. ATI Report No. B8609.05-106-18, dated 11/07/12, ASTM D1929- 96(2000)e1 self-ignition temp.

- 2. ATI Report No. B8609.04-121-18, dated 11/09/12, ASTM E84-07 smoke density.
 - 3. ATI Report no. B8609.05-106-18, dated 11/07/12, ASTM D635-03 rate of burn classification.
 - c. ATI Report No. B8609.01-106-18, dated 12/19/12, D638-03/G155-05a Outdoor Exposure - tensile strength change.
- 2) 8th Edition (2023) Florida Building Code
 - a. Building
 - i. Chapter 35 Reference Standards
 - b. 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.