

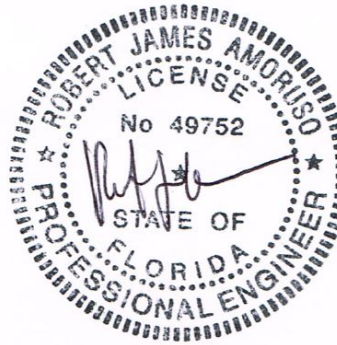


Product Evaluation Report

Date:	August 23, 2023
PTC Report No.:	2229-PER
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 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer
Prepared By:	Robert J. Amoruso, P.E. Florida P.E. License Number 49752 PTC Product Design Group, LLC FBPE Certification of Authorization No. 25935

CERTIFICATE OF INDEPENDENCE

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



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by Robert J
Amoruso
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Evaluated by:
Robert J. Amoruso, P.E.
Florida P.E. License Number 4975

Project Scope

Evaluate Butler Manufacturing Company's Butlerib 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).

The engineering analysis (Reference 3) determines the acceptability of anchorage of the wall panel to the supporting building substrate meeting the minimum requirements of the installation drawing (Reference 1).

This Product Evaluation Report summarizes the 8th Edition (2023) FBC compliance verification and appropriate Limitations and Conditions of Use.

Installation Requirements

See Reference 1 for the installation instructions of the Butlerib II HVHZ Wall LITE*PANL to the supporting building substrate.

Limitations and Conditions of Use

This product evaluation report contains or refers to specifications, technical details and installation details and/or methods that pertain to the proper use and/or installation of the product specified herein. Specific limitations and conditions of its use including but not limited to the following are contained in Reference 1 and are the subject of Product Approval in accordance with the State of Florida Product Approval Rule 61G20-3.

- Design Pressure Rating (psf) = +/-130 psf
- Installation substrate requirements.
- Installation anchor requirements.
- Installation restrictions.
- Product description.
- Product components.

Code Conformance – Air, Water and Structural Performance, Impact & Cyclic Loading

Butler Manufacturing Company's Butlerib II HVHZ Wall LITE*PANL is approved under the Product Approval Rule 61G20-3 under the Florida Product Approval system in accordance with the following 8th Edition (2023) Florida Building Code Requirements.

Performance testing based upon signed and sealed ATI Test Report No. B8760.02-450-1, dated 5/2/13 and associated laboratory stamped drawings by Architectural Testing Inc. to the following.

- TAS 202-94, structural overload test to +/-195 psf and design load test to +/-130 psf.
- TAS 202-94, water penetration test of 15% of positive design load.
- TAS 201-94, large missile impact test (envelopes small missile impact test).
- TAS 203-94, cyclic wind pressure loading at +/-130 psf.

8th Edition (2023) Florida Building Code (FBC), Building Volume compliance to the following sections is based on the performance testing.

- Chapter 26, Light-Transmitting Plastic Wall Panels
- Chapter 26, Light-Transmitting Plastic – Structural Requirements
- Chapter 26, Light-Transmitting Plastic – Fastening
- Chapter 16, Opening Protection
- Chapter 16, High Velocity Hurricane Zones - Impact Tests for Wind-Borne Debris

Conformance to the 8th Edition (2023) Florida Building Code (FBC), Building Volume, Chapter 26 - plastics fire resistive testing and outdoor exposure have been determined by testing as follows.

- 200 IFW 8.0 interior fiberglass reinforced panel
 - ASTM D1929 self-ignition temp > 650°F.
 - ATI Report No. B8609.02-106-18, dated 11/07/12 documented result of 752°F.
 - ASTM E84 smoke developed index (smoke density) < 450.
 - ATI Report No. B8609.03-121-24, dated 11/09/12 documented result of 400.
 - ASTM D635 Rate of Burn Classification CC1 or CC2.
 - ATI Report No. B8609.02-106-18, dated 11/07/12 documented result of CC1.
 - ASTM D638/G155 Outdoor Exposure - tensile strength change +/-10% maximum.

- ATI Report No. B8609.01-106-18, dated 12/19/12 documented result of +0.2%.
- 200 STW 8.0 exterior fiberglass reinforced panel
 - ASTM D1929 self-ignition temp > 650°F.
 - ATI Report No. B8609.05-106-18, dated 11/07/12 documented result of 842°F.
 - ASTM E84 smoke density < 450.
 - ATI Report No. B8609.04-121-18, dated 11/09/12 documented result of 300.
 - ASTM D635 rate of burn classification CC1 or CC2.
 - ATI Report no. B8609.05-106-18, dated 11/07/12 documented result of CC2.
 - ASTM D638/G155 Outdoor Exposure - tensile strength change +/-10% maximum.
 - ATI Report No. B8609.01-106-18, dated 12/19/12 documented result of -1.1%

References and Supporting Documents

1) Installation Instructions.

- a. BMC0001, Rev. B, dated 12/11/17, signed and sealed by Robert J. Amoruso, P.E., *Butler Manufacturing Company Butler II HVHZ Wall LITE*PANL Installation Anchorage Details.*

2) 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.

4. ATI Report No. B8609.01-106-18, dated 12/19/12, D638-03/G155-05a Outdoor Exposure - tensile strength change.

3) Reports

- a. PTC Report No. 2228, Rev. 0, *Butler Manufacturing Company Butlerib II HVHZ Wall LITE*PANL Installation Anchorage Engineering*, Dated 5/15/13, signed and sealed by Robert J. Amoruso, P.E.