BUILDING DROPS
1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

Product Evaluation Report

of

Stabilit America, Inc. dba Glasteel
AcrylitGC – R Profile 1-1/4" Rib; 36" Coverage Roof Panel
(Non-HVHZ)

for

Florida Product Approval

FL# FL46595

Report No. 9120

Current Florida Building Code

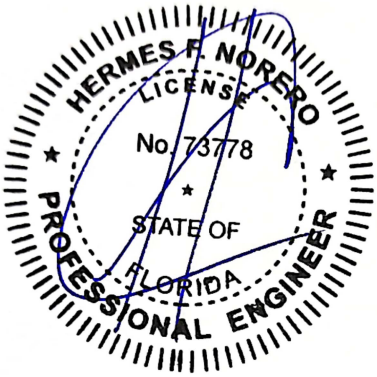
Method:	**1 – D (Engineering Evaluation)**
Category:	**Structural Components**
Sub – Category:	**Roof Deck**
Product:	**AcrylitGC – R Profile 1-1/4" Rib; 36" Coverage Roof Panel**
Materials:	**Fiberglass Reinforced 100% Acrylic WR**
Panel Weight:	**8 oz/ft^2**
Product Dimensions:	**See Installation Instructions STB004**

Prepared for:

Stabilit America, Inc. dba Glasteel
285 Industrial Dr.
Moscow, TN 38057

Prepared by:

Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 2/29/2024



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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2024.02.29 19:10:54 -08'00'

Hermes F. Norero, P.E.
Florida P.E. No. 73778

1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

Manufacturer: **Stabilit America, Inc. dba Glasteel**

Product Category: Structural Components

Product Sub-Category: Roof Deck

Compliance Method: State Product Approval Rule (1)(d)

Product Name: **AcrylitGC – R Profile 1-1/4" Rib; 36" Coverage Roof Panel (Non-HVHZ)**

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) **Stabilit America, Inc. dba Glasteel** based on **Method 1d** of the State of Florida Product Approval, Department of Business and Professional Regulation - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the current Florida Building Code.

See Installation Instructions **STB004**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the current Florida Building Code, **excluding** the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. Site conditions that deviate from the details of Installation Instructions **STB004** require further engineering analysis by a licensed engineer or registered architect.
4. See Installation Instructions **STB004** for size and design pressure limitations.
5. Installation Instructions **STB004** are in accordance with Current FBC section 1504.6, 1504.7, and 2606.4.
6. Product shall be installed with a minimum slope of ½:12.
7. Underlayment per manufacturer's guidelines according to Current FBC section 1507.1.1.
8. Roof design shall allow 1 sq ft for ventilation for every 150 sq ft of roof.
9. Panels shall be installed in accordance with FBC 2609 for CC2 class of plastics and the requirements of this evaluation.

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Quality Assurance: The manufacturer has demonstrated compliance of roofing products in Accordance with the Florida Building Code and State Rules for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Keystone Certifications, Inc.** (FBC Organization #: QUA 1824)

Performance Standards: The product described herein has been evaluated per:

- ASTM D1929-16
- ASTM D2843-16
- ASTM D635-14
- ASTM E1592-05(17)
- ASTM G154-16(a)
- FM 4470-16

Referenced Data:

1. Product Testing performed by **Force Engineering & Testing, Inc** (FBC Organization # TST5328)

Report #:	Report Date:
143-0161T-05A	08/29/2005
143-0161T-05B	08/29/2005
143-0161T-05C	08/29/2005
143-0161T-05D	08/29/2005

2. Product Testing performed **by PRI-Construction Materials Technologies, LLC** (FBC Organization # TST5878)

Report #:	Report Date:
FAE-002-02-01	07/13/2011
FAE-006-02-01	03/28/2012
FAE-029-02-01	09/13/2017

3. Quality Assurance
Keystone Certifications, Inc.
(FBC Organization # QUA 1824)

Installation:

Refer to Installation Instructions (**STB004**) for anchor types, spacing, and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**STB004**) for design pressure configurations.

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Equivalence of Test Standards:

Various test standards have been evaluated for differences in test methodology, if any, between tested editions of the test standards listed below and those editions referenced in the current Florida Building Code. Stabilit America, Inc. dba Glasteel has tested their products to the following test standard edition(s):

1. ASTM E1592-05(12)
2. ASTM G154-12(a)

Chapter 35 of the current Florida Building Code references the following editions of the above mentioned test standards:

1. ASTM E1592-05(17)
2. ASTM G154-16(a)

After review of the above mentioned referenced standards and editions, it has been found that the results and tests carried out meet the requirements for compliance. All referenced standards have been found to be equivalent.

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