Force Engineering & Testing Inc.
19530 Ramblewood Drive
Humble,TX 77338

Product Evaluation Report

RIGID GLOBAL BUILDINGS, LLC.

24 Ga. HI-Tech Series Roof Panel over open framing

Florida Product Approval # 15282.1

Florida Building Code 2010
Per Rule 9N-3
Method: 1 –D

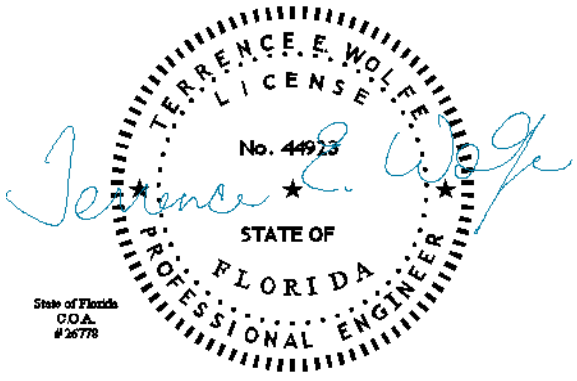
Category: Structural Components
Subcategory: Roof Deck
Compliance Method: 9N-3.005(1)(d)
NON HVHZ

Product Manufacturer:
Rigid Global Buildings, LLC.
18815 Aldine Westfield
Houston, TX 77073

Engineer Evaluator:
Terrence E. Wolfe, P.E. # 44923
Florida Evaluation ANE ID: 1920

Validator:
Locke Bowden, P.E., FL #49704
9450 Alysbury Place
Montgomery, AL 36117

Contents:



March 6, 2012

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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2010, Sections 1504.3.2, 1504.7.

Product Description: HI-Tech Series, 3" Mechanical Lock Standing Seam Roof Panel, 24 Ga. Steel, 24" Wide. Structural Application.

Panel Material/Standards: Material: Minimum 24 Ga. Steel, conforming to Florida Building Code 2010 Section 1507.4.3.
Yield Strength: Min. 50.0 ksi
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2010, Section 1507.4.3.

Panel Dimension(s):

Thickness:	0.0225" min.
Width:	24" Maximum
Rib Height:	3" Tall Trapezoidal Rib
Panel Seam:	Trip-Lok or Quad-Lok Seams w/ mechanical seamer
Panel Rollformer:	Building Research Systems, Inc.

Roof Panel Clips:

Product Name:	C462 / C463 Clip Assembly
Corrosion Resistance:	Per Florida Building Code 2010 Section 1506.7

Clip Fastener: (2) ¼-14 Self Driller per clip.
Corrosion Resistance: Per Florida Building Code 2010, Section 1506.6, 1507.4.4

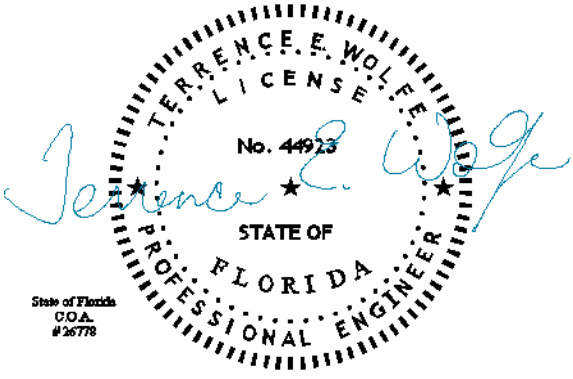
Substrate Description: Min. 16 Ga. Steel Framing. Must be designed in accordance w/ Florida Building Code 2010.

Design Uplift Pressures:

Table "A"

Maximum Design Pressure:	-52.5 psf
Clip Spacing:	5'-0" O.C.

*Design Pressure includes a Safety Factor = 2.0.



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Code Compliance:
The product described herein has demonstrated compliance with The Florida Building Code 2010, Section 1504.3.2, 1504.7.

Evaluation Report Scope:
The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2010, as relates to Rule 9N-3.

Performance Standards:
The product described herein has demonstrated compliance with:

- UL 580-06 - Test for Uplift Resistance of Roof Assemblies
- FM 4471, Section 4.4 - Foot Traffic Resistance Test.

Reference Data:

1. UL 580-94 Uplift Test
   Underwriters Laboratories, Inc.
   Project No. 01NK3076, File No. R16615, Construction No. 552
2. FM 4471-10, Section 4.4 Foot Traffic Resistance Test
   Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
   Report No. 114-0014T-12C, Dated 02/23/12
3. Certificate of Independence
   By Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc.
   (FBC Organization # ANE ID: 1920)

Test Standard Equivalency:

1. The UL 580-94 test standard is equivalent to the UL 580-06 test standard.

Quality Assurance Entity:
The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 9N-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.

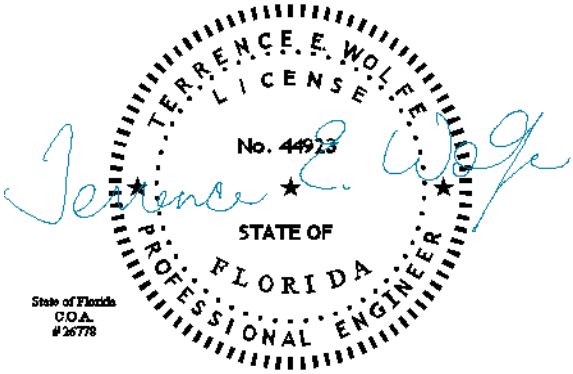
Minimum Slope Range:
Minimum Slope shall comply with Florida Building Code 2010, including Section 1507.4.2 and in accordance with Manufacturers recommendations.

Installation:
Install per manufacturer's recommended details.

Insulation:
Manufacturer's approved product (Optional)

Roof Panel Fire Classification:
Fire classification is not part of this evaluation.

Shear Diaphragm:
Shear diaphragm values are outside the scope of this report.



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Design Procedure:

Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2010 for roof cladding wind loads. These component wind loads for roof cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout. Support framing must be in compliance with Florida Building Code 2010 Chapter 22 for steel, and Chapter 16 for structural loading.

TERRENCE E. WOLFE
LICENSE
No. 44923
STATE OF
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PROFESSIONAL ENGINEER

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C.O.A.
26778

FL# 15282.1

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