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

Product Evaluation Report

DIXIELAND METALS OF ALABAMA, LLC.

26 Ga. PBR Roof Panel over 15/32" Plywood

Florida Product Approval # 4149.1 R2

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

Category: Roofing
Subcategory: Metal Roofing
Compliance Method: 9N-3.005(1)(d)
NON HVHZ

Product Manufacturer:
Dixieland Metals of Alabama, LLC.
378 Eastland Road
Dothan, AL 36304

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:

TERRENCE E. WOLFE LICENSE No. 44923 STATE OF FLORIDA PROFESSIONAL ENGINEER
State of Florida C.O.A. #26778

August 8, 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.

Product Description: PBR Roof Panel, Min. 26 Ga. Steel, 36" Wide, through fastened roof panel over 15/32" APA Plywood decking. Non-Structural Application.

Panel Material/Standards:
Material: Minimum 26 Ga. Steel, conforming to Florida Building Code 2010 Section 1507.4.3. Paint finish optional
Yield Strength: Min. 80.0 ksi
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2010, Section 1507.4.3.

Panel Dimension(s):
Thickness: 0.0185" min.
Width: 36"
Rib Height: 1 ¼" major rib at 12" O.C.
Panel Rollformer: MRS Metal Rollforming Systems

Panel Fastener:
#9-15 x 1-1/2" HWH Woodgrip with sealing washing or approved equal
¼" minimum penetration through plywood
¼-14 x 7/8" Lap Screw w/ sealer washer at 24" O.C. in panel side laps
Corrosion Resistance: Per Florida Building Code 2010, Section 1506.6, 1507.4.4

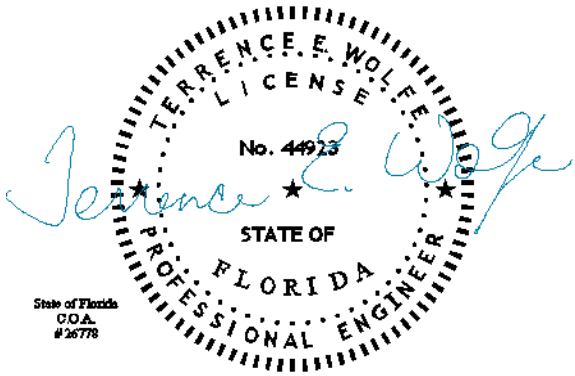
Substrate Description: Min. 15/32" thick, APA Rated plywood over supports at maximum 24" O.C. Design of plywood and plywood supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code 2010.

Design Uplift Pressures:

Table "A"

Maximum Total Uplift Design Pressure:	56.75 psf
Fastener Pattern:	12"-12"-12"
Fastener Spacing:	24" 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.

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
- UL 1897-04 - Uplift Test for Roof Covering Systems

Reference Data:
1. UL 580-94 / 1897-98 Uplift Test
   Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
   Report No. 92-0348T-06L
2. 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.
2. The UL 1897-98 test standard is equivalent to the UL 1897-04 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.

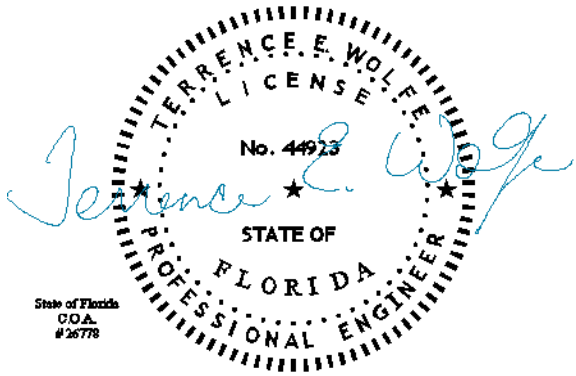
Minimum Slope Range:
Minimum Slope shall comply with Florida Building Code 2010, including Section 1507.4.2 and in accordance with Manufacturers recommendations. For slopes less than 3:12, lap sealant must be used in the panel side laps.

Installation:
Install per manufacturer's recommended details.

Underlayment:
Per Manufacturer's installation guidelines per Florida Building Code 2010 Section 1507.4.5.

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

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



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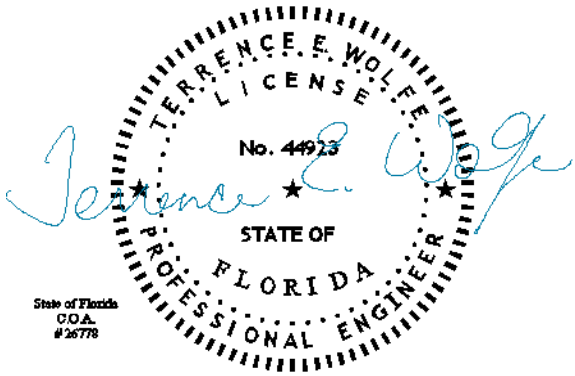
Design Procedure:

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 and pullover. Support framing must be in compliance with Florida Building Code 2010 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.



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