

Product Evaluation Report REED'S METALS, INC.

29 Ga. Residential Roof Panel over 15/32" Plywood

Florida Product Approval # 12725.4 R1

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:
Reed's Metals, Inc.
19 East Lincoln Drive NE
Brookhaven, MS 39601

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:

Evaluation Report Pages 1-4

No. 44923

No. 44923

State of Florida
COA.
W26778

ON AL



Compliance Statement: The product as described in this report has demonstrated compliance with the

Florida Building Code 2010, Sections 1504.3.2.

Product Description: Residential Roof Panel, Min. 29 Ga. Steel, 36" Wide, through fastened roof panel

over 15/32" Plywood decking. Non-Structural Application.

Panel Material/Standards: Material: Minimum 29 Ga. Steel, ASTM A792 or ASTM A653 G90 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: 0.0145" min.

Width: 36"

Rib Height: ¾" major rib at 9" O.C.

Panel Rollformer: MRS Metal Rollforming Systems

Panel Fastener: #9-15 x 1-1/2" HWH Woodgrip with sealing washing or approved equal

1/4" minimum penetration through plywood

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. Must be designed in accordance w/ Florida Building Code 2010.

Design Uplift Pressures:

Table "A"

Maximum Total Uplift Design Pressure:	71.75 psf	146.0 psf
Fastener Pattern:	9"-9"-9"-9"	6.5"-2.5"-6.5"-2.5"- 6.5"-2.5"-6.5"
Fastener Spacing:	24" O.C.	12" O.C.

^{*}Design Pressure includes a Safety Factor = 2.0.



June 1, 2012



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

■ FM 4471, Section 5.4 - Foot Traffic Resistance Test

1. UL 580-94 / 1897-98 Uplift Test

Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
Report No. 101-0304T-05 & 101-0508T-08, Dated 05/05/05 & 07/09/08

2. FM 4471-95, Section 5.4 Foot Traffic Resistance Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328)

Report No. 101-0241T-09, Dated 07/06/2009

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.

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.

No. 44923

No. 44923

State of Florida

COA

W26778

ONAL

STATE OF

Reference Data:



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

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

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.

No. 44923

No. 44923

State of Florida

COA

#26778

ON AL

**

State of Florida

COA

#26778

June 1, 2012