

# METAL SYSTEMS INC.

## Product Evaluation Report for

26 Ga.  $\frac{3}{4}$ " Rib Panels over 15/32" Plywood

Florida Product Approval # 6508.2

Category: Roofing

Subcategory: Metal Roofing

Compliance Method: Florida Department of Business and Professional  
Regulation for Statewide Acceptance per Rule 9N-3.005 method 1(d).

### Engineer Evaluator:

Samuel A. Greenberg, #34245  
P.O. Box 3400  
Apollo Beach, FL 33572

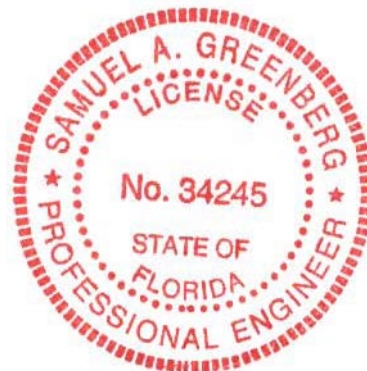
### Validator:

John Hoy, P.E. #55312  
Florida Engineering Solutions, Inc.  
Ph: 352-588-5311

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by **Samuel A. Greenberg, PE** on **06/08/2021** using a  
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**DE # 411086**  
**June 8, 2021**  
**CA # 25948**



**Product Manufacturer:**

Metal Systems Inc.  
3301 Paul Buchman HWY  
Plant City, FL 33585

**Product Description:**

26 Ga., 36" Coverage, 3/4" Tall Rib at 9" o.c., non-structural metal roof panel over min. 15/32" Plywood.

Panel Rollformer: MRS Metal Rollforming Systems  
13906 N. Newport HWY  
Mead, Washington 99021

**Compliance Statement:**

The product as described in this report has demonstrated compliance with the Florida Building Code 7th Edition (2020), Sections 1504.3.2.

**Documentation Supporting the Compliance Statement:**

The product has been tested in accordance with:

- UL 580/ UL 1897 by Force Engineering & Testing
- TAS 125
- Test Report 129-0475T-08B & 129-0475T-08C
  - A) Fastener Spacing at 24" O.C.
  - B) Fastener Spacing at 12" O.C.

**Limitations and Conditions of use for NON-HVHZ:**

**Maximum Roof Component Uplift Pressure:** 86.75 psf (nominal design wind pressure) @ 2'-0" O.C. Fastener Spacing Type A fastener pattern  
146.0 psf (nominal design wind pressure) @ 1'-0" O.C. Fastener Spacing Type B fastener pattern

**Panel Material Standards:**

26 Ga., 0.0185" Thick material Grade 80.  
Panel Material shall comply with FBC 7th Edition (2020),  
Section 1507.4.3



## Dansco Engineering, LLC

P.O. Box 3400

5912 Fortune Place

Apollo Beach, FL 33572

P: (813)645-0166 \* F: (813)645-9698  
www.danscoengineering.com

### Panel Clip Fasteners:

#10-16 HWH Woodgrip min. 1/4" Penetration into plywood.

Fastener Pattern Type A, 9"-9"-9"-9" and @ 24" O.C.

Fastener Pattern Type B, 6.5"-2.5"-6.5"-2.5"-6.5"-2.5"-6.5" and @ 12" O.C.

Fasteners must be Corrosion resistance per FBC 7th Edition (2020), Section 1507.4.4

### Minimum Roof Slope:

2:12. Minimum Slope shall comply with FBC 7th Edition (2020), section 1507.4.2 and Manufacturers recommendations.

### Substrate Description:

Min. 15/32" Plywood Deck designed by others

### Vapor Barrier:

30# Asphalt Saturated organic felt paper in compliance with ASTM D226, Type I or type II.

### Roof Panel Fire Rating:

Panel has a Class B fire exposure rating in accordance with FBC 7th Edition (2020) Section 1505.3 without added an additional fire barrier.

### Design Procedure:

Based on the dimensions of the structure, appropriate and wind loads are determined using Chapter 16 of the FBC 7th Edition (2020) for roof cladding wind loads. These component wind loads for roof cladding are compared to the nominal design 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 decking & framing must be in compliance with FBC 7th Edition (2020) Chapter 22 for Steel, Chapter 23 for Wood and Chapter 16 for structural loading.

### Installation Requirements:

Install the panel system according to the manufacturer's installation instruction.

### Quality Assurance Entity:

Keystone Certifications, Inc: FBC #QUA1824

### Certificate of Independence:

See uploaded attachment

### Authorized Representative:

Samuel A. Greenberg, P.E. #34245