



352-742-7070 • Toll Free: 866-479-8080 • Fax 352-742-7075  
www.mfmrs.com • 28328 County Road 561, Tavares, Florida 32778

**Product Evaluation Report**  
**MID FLORIDA METAL ROOFING SUPPLY, INC.**

**Minimum 29 Ga. MFMRS Multi-Rib Roof Panel over 2x4 Wood Purlins**

**Florida Product Approval # 23490.1 R4**

Florida Building Code 2023

Per Rule 61G20-3

Method: 1 –D

Category: Structural Components

Subcategory: Roof Deck

Compliance Method: 61G20-3.005(1)(d)

NON HVHZ

**Product Manufacturer:**

**Mid Florida Metal Roofing Supply, Inc.**

28328 County Road 561

Tavares, Florida 32778

**Engineer Evaluator:**

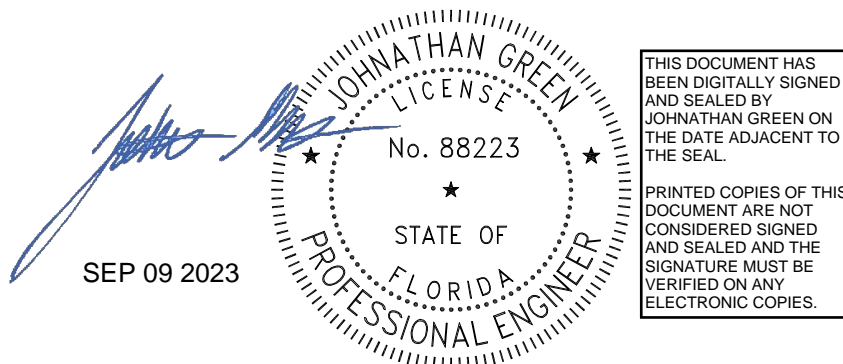
**Johnathan Green, P.E. #88223**

Florida Evaluation ANE ID: 12901

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- Compliance Statement:

The product as described in this report has demonstrated compliance with the Florida Building Code 2023, Sections 1504.3.2, 1504.7.
- Product Description:

MFMRs Multi-Rib Roof Panel, 29 Ga. Steel, 36" Wide, through fastened structural roof panel over 2x4 wood purlins. Structural Application.
- Panel Material/Standards:

Material: Minimum 29 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2023 Section 1507.4.3.  
Yield Strength: Min. 80.0 ksi  
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2023, Section 1507.4.3.
- Panel Dimension(s):

Thickness: 0.0145" min.  
Width: 36" maximum coverage  
Rib Height: 3/4" major rib at 9" O.C.
- Panel Fastener:

#12 x 1 1/2" WoodZac or WoodZip w/ sealing washer or approved equal.  
1/4-14 x 7/8" HWH SD1 w/ EPDM washer through panel side laps at 12" O.C.  
Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.
- Substrate Description:

Min. 2x4 No. 2 SYP wood purlins at 24" O.C. complying with 2023 Florida Building Code. Framing must be designed in accordance w/ Florida Building Code 2023.
- Allowable Design Uplift Pressures:

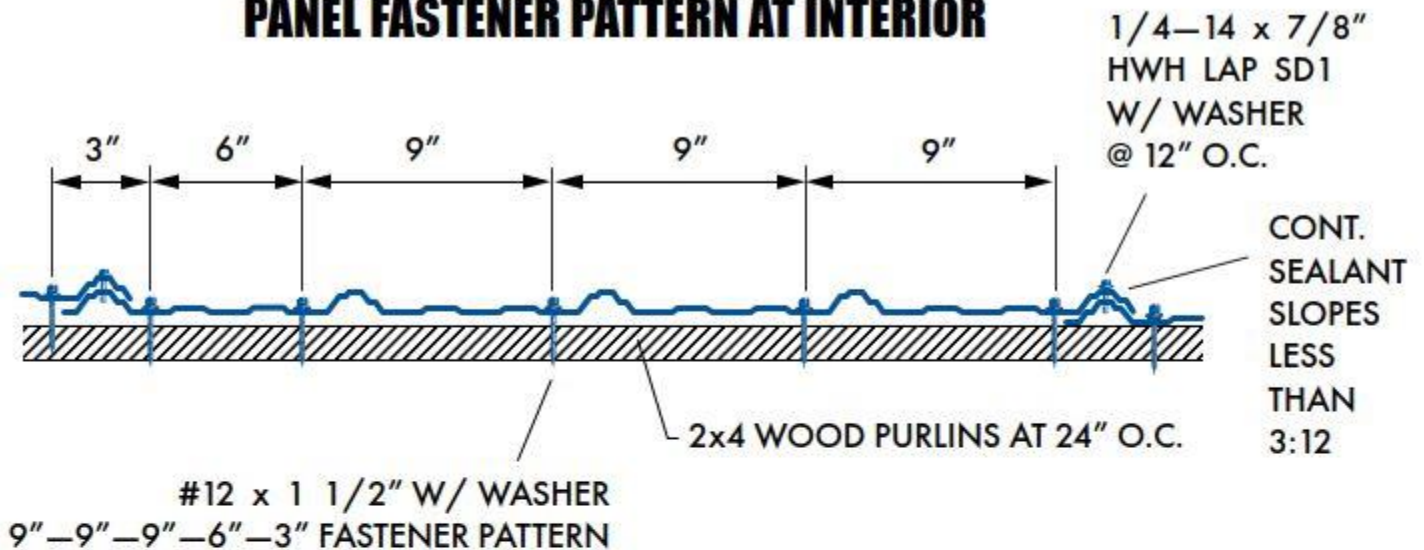
Table "A"

Maximum Design Uplift Pressure:	-105.0 psf
Fastener Pattern:	9"-9"-9"-6"-3"
Fastener Pattern Spacing:	24" O.C.

\*Design Pressure includes a Safety Factor = 2.0

<b>Code Compliance:</b>	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1504.3.2, 1504.7.
<b>Evaluation Report Scope:</b>	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to Rule 61G20-3.
<b>Performance Standards:</b>	<p>The product described herein has demonstrated compliance with:</p> <ul style="list-style-type: none"><li>▪ ASTM E 1592-05 (2017) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference.</li><li>▪ FM 4471-92, Foot Traffic Resistance Test for Roof Panels.</li></ul>
<b>Reference Data:</b>	<ol style="list-style-type: none"><li>1. ASTM E 1592-01 PRI Construction Materials technologies LLC Report No. FAE-008-02-01</li><li>2. FM 4471-92, Section 5.4 Foot Traffic Resistance Test Force Engineering &amp; Testing, Inc. Report No. 194-0134T-11A</li><li>3. Certificate of Independence By Johnathan Green, P.E. #88223</li></ol>
<b>Test Standard Equivalency:</b>	The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2017) test standard.
<b>Quality Assurance Entity:</b>	The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.
<b>Minimum Slope Range:</b>	Minimum Slope shall comply with Florida Building Code 2023, 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.
<b>Installation:</b>	Install per manufacturers recommended details.
<b>Insulation:</b>	Manufacturer's approved product (Optional)
<b>Roof Panel Fire Classification:</b>	Fire classification is not part of this acceptance.
<b>Shear Diaphragm:</b>	Shear diaphragm values are outside the scope of this report.
<b>Design Procedure:</b>	Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2023 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 2023 Chapter 23 for wood, and Chapter 16 for structural loading.

## PANEL FASTENER PATTERN AT INTERIOR



## PANEL FASTENER PATTERN AT PANEL ENDS/END LAPS

