MID FLORIDA Metal Roofing SUPPLY, INC.
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 1x4 Wood Purlins

Florida Product Approval # 24096.1 R4

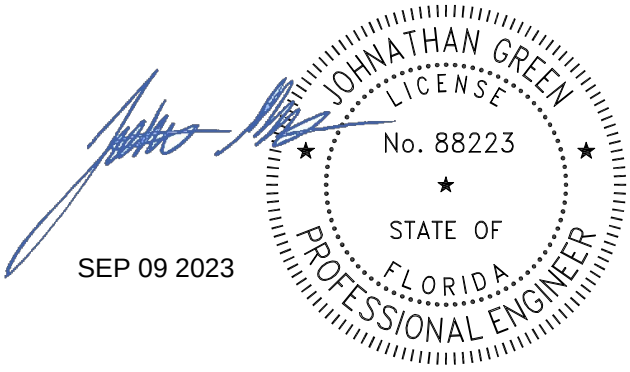
Florida Building Code 2023
Per Rule 61G20-3
Method: 1 –D

Category: Roofing
Subcategory: Metal Roofing
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

Contents:



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHNATHAN GREEN ON THE DATE ADJACENT TO THE SEAL.

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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 29 Ga. Steel, 36" coverage, through fastened roof panel over 1x4 wood purlins over one layer of asphalt shingles (optional) over minimum 15/32" APA Plywood decking. Non-Structural Application.

Panel Material/Standards: Material: Minimum 29 Ga. Steel 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: ¾" major rib at 9" O.C.

Panel Fastener: #10 x 1 1/2" WoodZac with sealing washing or approved equal.
Corrosion Resistance: Per Florida Building Code 2023, Section 1507.

Substrate Description: Min. 1x4 No. 2 wood purlins over maximum one layer of asphalt shingles/felt paper (optional) over minimum 15/32" APA Plywood over supports at maximum 24" O.C. The 1x4 wood purlins attached into the plywood decking with (1) 8 x 2 ½" wood screws at 12" O.C. Substrate must be designed in accordance w/ Florida Building Code.

Allowable Design Uplift Pressures:

Maximum Design Uplift Pressure:	-93.5 psf	-116.0 psf
Fastener Pattern:	Pattern A	Pattern B
Fastener Pattern Spacing:	24" O.C.	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 2023, 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 2023, as relates to Rule 61G20-3.

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

- UL 580-06 - Test for Uplift Resistance of Roof Assemblies
- UL 1897-2015 - Uplift Test for Roof Covering Systems
- FM 4471-92 - Foot Traffic Resistance Test

Reference Data:

1. UL 580-94 / 1897-98 Uplift Test
   Force Engineering & Testing, Inc.
   Report No. 194-0135T-07A, B.
2. FM 4471-92, Section 5.4 Foot Traffic Resistance Test
   Force Engineering & Testing, Inc.
   Report No. 194-0134T-11A
3. Certificate of Independence
   By Johnathan Green, P.E. #88223

Test Standard Equivalency:
The UL 580-94 test standard is equivalent to the UL 580-06 and the UL 1897-98 test standard is equivalent to the UL 1897-2015 test standard.

Quality Assurance Entity:
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.

Minimum Slope Range:
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.

Installation:
Install per manufacturers recommended details.

Underlayment:
Per Florida Building Code 2023, Section 1507.1 and manufacturer's installation guidelines.

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

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 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 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.

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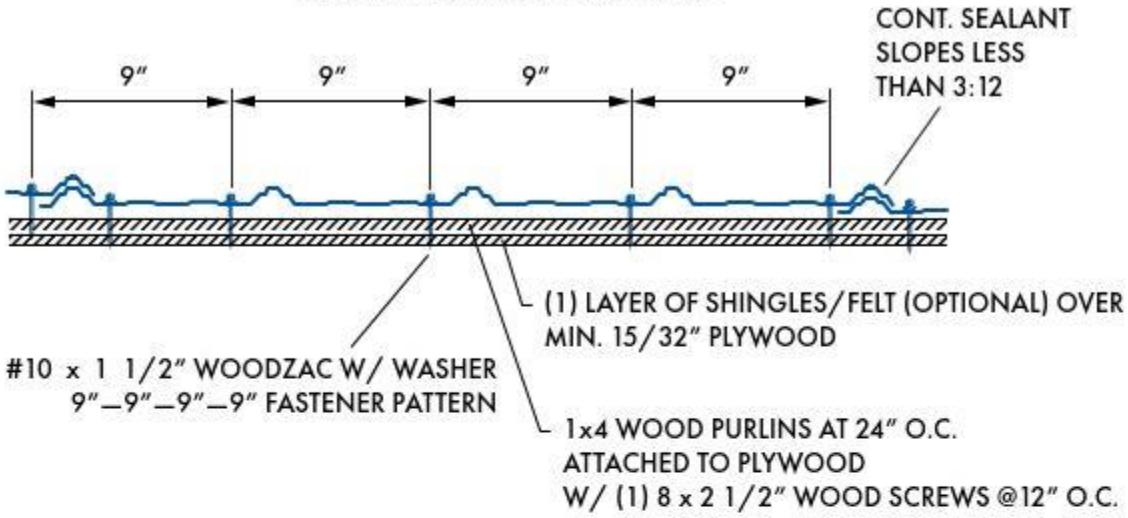
PANEL FASTENER PATTERN A



PANEL FASTENER PATTERN B AND FASTENER PATTERN AT PANEL ENDS/END LAPS