

Force Engineering & Testing

19530 Ramblewood Drive
Humble, Texas 77338
Phone: (281) 540-6603 FAX: (281) 540-9966
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Product Evaluation Report
Mid Florida Metal Roofing Supply, Inc.

29ga MFMRS Multi-Rib Wall Panel Over 2x4 Wood Girts

Florida Product Approval # 31397.1 R1

Florida Building Code 2020
Per Rule 61G20-3
Method: 2 –B

Category: Structural Components
Subcategory: Structural Wall
Compliance Method: 61G20-3.005(2)(b)
NON HVHZ

Product Manufacturer:
Mid Florida Metal Roofing Supply, Inc.
28328 County Road 561
Tavares, Florida 32778
(352) 742-7070

Engineer Evaluator:
Johnathan Green, P.E. #88223
Florida Evaluation ANE ID: 12901

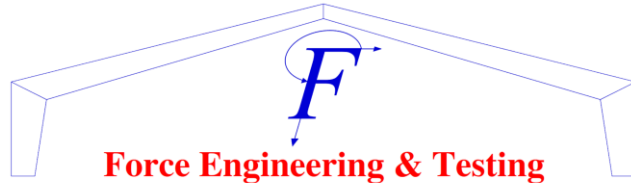
Validator:
Brian Jaks, P.E. #70159

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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2020, Section 1709.2.

Product Description: MFMRs Multi-Rib Panel, Min. 29 Ga. Steel, 36" Wide, through fastened wall panel. Structural Application.

Panel Material/Standards: Material: Min. 29ga Steel, ASTM A792 AZ50 Grade 80 conforming to Florida Building Code 2020 Section 1507.4.3. Paint finish optional.
Yield Strength: Min. 80.0 ksi – 29ga
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2020, Section 1507.4.3

Panel Dimension(s): Thickness: 0.0125" min.
Width: 36" coverage
Rib Height: 3/4" major rib at 9" O.C.

Panel Fastener: #12-8 x 1" HWH Woodgrip™ XG screws with sealing washing or approved equal at 9"-9"-9"-7.5"-3" fastener pattern. Panel side laps fastened together w/ ¼-14 x 7/8" HWH SD w/ sealer washer at 12" O.C.
Corrosion Resistance: Per Florida Building Code 2020.

Substrate Description: Minimum #2 SYP 2x4 wood girts spaced a maximum 24" o.c. Framing must be designed in accordance w/ Florida Building Code 2020.

Allowable Design Pressures:

Table "A"

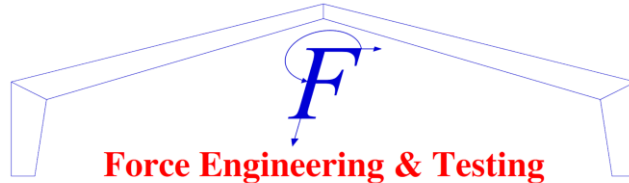
Maximum Design Pressure:	-140.0 psf
Fastener Pattern:	9"-9"-9"-7.5"-3"
Fastener Spacing:	2'-0" O.C.

*Design Pressure includes a Safety Factor = 1.5.



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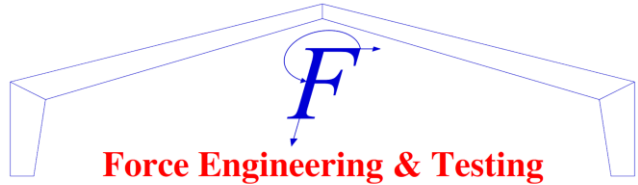
Website: www.forceengineeringtesting.com

- Code Compliance:** The product described herein has demonstrated compliance with The Florida Building Code 2020, Section 1709.2.
- Evaluation Report Scope:** The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2020, as relates to Rule 61G20-3.
- Performance Standards:** The product described herein has demonstrated compliance with:
- ASTM E 1592-05 (2012) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference.
- Reference Data:**
1. ASTM E 1592-01
PRI Construction Materials Technologies
Report No. FAE-008-02-01, Dated 06/18/2012
 2. Certificate of Independence
By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing
(FBC Organization # ANE ID: 12901)
- Test Standard Equivalency:** The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2012) 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.
- Installation:** Install per manufacturer's recommended details.
- 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 2020 for wall cladding wind loads. These component wind loads for wall 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 2020 Chapter 22 for steel, and Chapter 16 for structural loading.

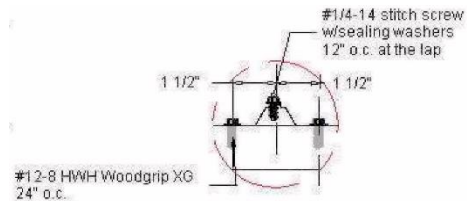
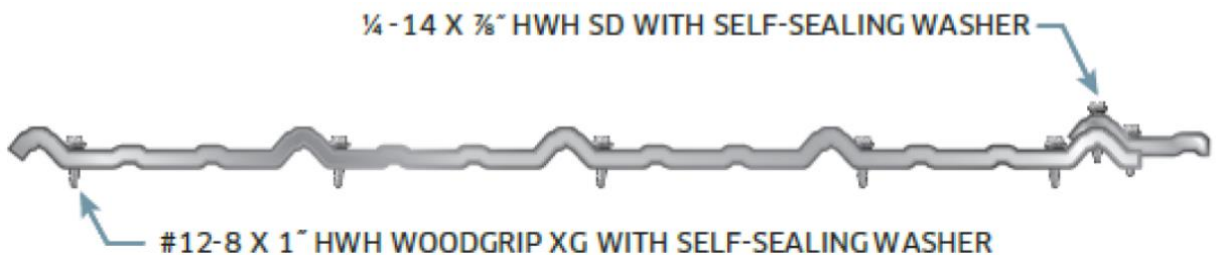
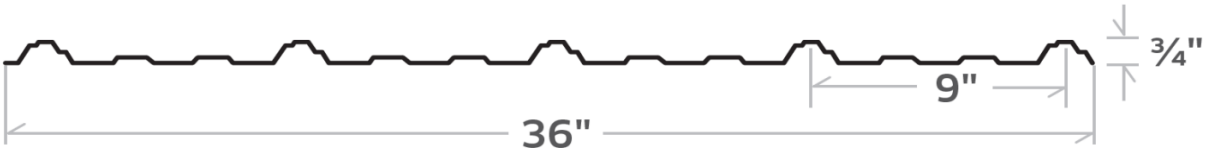


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Fastener Locations at Panel Overlap


AUG 28 2020

JOHNATHAN GREEN
LICENSE
No 83223
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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