

Force Engineering & Testing
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Product Evaluation Report
METAL ROOF SUPPLY

**Minimum 29 Ga. Heritage Series Rib Roof Panel over 1x4 Wood Purlins over
7/16" OSB**

Florida Product Approval # 48258.2

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:

Metal Roof Supply

3190 Delta Ave.

Bartow, FL 33830

Engineer Evaluator:

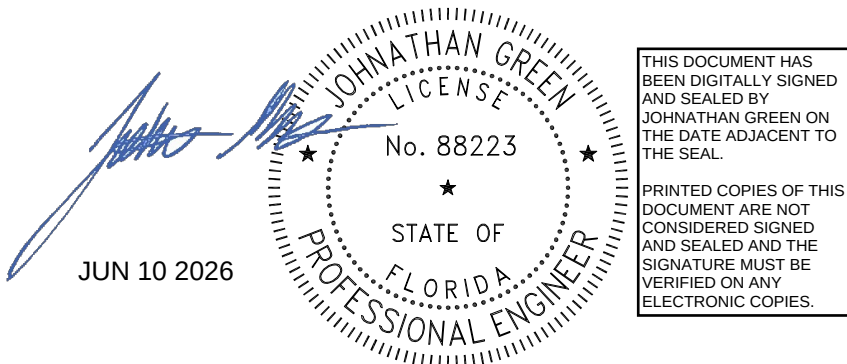
Johnathan Green, P.E. #88223

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:	Heritage Series Rib Panel Minimum 29 Ga. Steel, 36" coverage, through fastened roof panel fastened into 1x4 wood purlins over one layer of asphalt shingles (optional) over minimum 7/16" OSB decking. Non-Structural Application.
Panel Material/Standards:	Material: 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: 0.014" (Nominal) Width: 36" maximum coverage Rib Height: ¾" major rib at 9" O.C. Panel Rollformer: Cidan Rollformer System
Panel Fastener:	#10-16 x 1 1/2" WoodZip HILO T-17 with washer or approved equal. Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.
Substrate Description:	Min. 1x4 No. 2 SYP wood purlins over maximum one layer of asphalt shingles/felt paper (optional) over Min. 7/16" OSB over supports at maximum 24" O.C. The 1x4 wood purlins attached through decking into rafters with (2) #9 x 2 ½" deck screws at 24" O.C. maximum. Substrate must be designed in accordance w/ Florida Building Code.

Allowable Design Uplift Pressures:

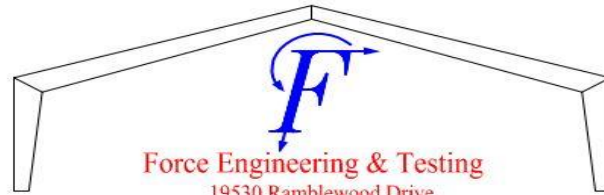
Table "A"

Maximum Allowable Design Uplift Pressure:	78.5 psf	127.3 psf	176.0 psf
Fastener Pattern:	9"-9"-9"-6"-3"	9"-9"-9"-6"-3"	9"-9"-9"-6"-3"
Fastener Pattern/1x4 Wood Purlin Spacing:	24" O.C.	18" O.C.	12" O.C.

*Design Pressure includes a Safety Factor = 2.0.

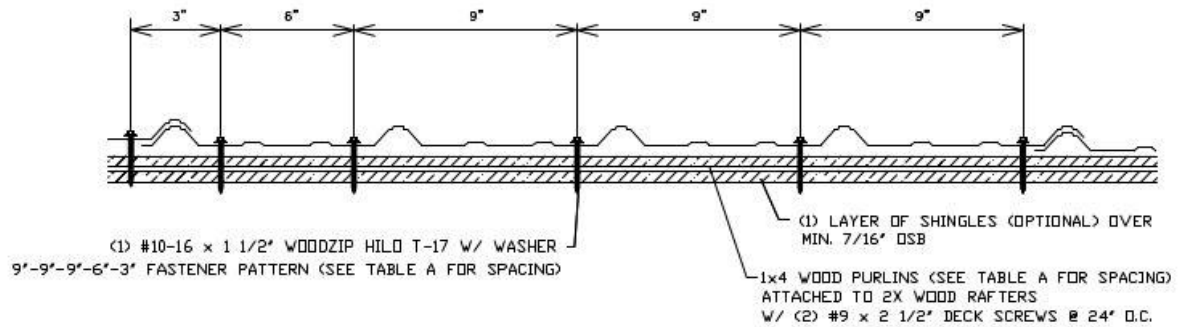


Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1504.3.2, 1504.7.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to 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 580-06 / 1897-2015 Uplift Test Force Engineering & Testing (FBC Organization # TST-5328) Report No. 818-0081T-26. 2. FM 4471-10, Section 4.4 Foot Traffic Resistance Test Force Engineering & Testing (FBC Organization # TST-5328) Report No. 818-0081T-26. 3. Certificate of Independence By Johnathan Green, P.E. #88223
Test Standard Equivalency:	The FM 4471-10, Foot Traffic Resistance test standard is equivalent to the FM 4471-92, Foot Traffic Resistance 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 manufacturer's 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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FASTENER PATTERN AT PANEL INTERIOR



FASTENER PATTERN AT PANEL ENDS

