

Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Office: (281) 540-6603 Test Lab: (832) 720-4251
www.forceengineeringtesting.com

Product Evaluation Report
METAL ROOF SUPPLY

Minimum 29 Ga. Heritage Series Rib Roof Panel over 2x4 Wood Purlins

Florida Product Approval # 48259.2

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:

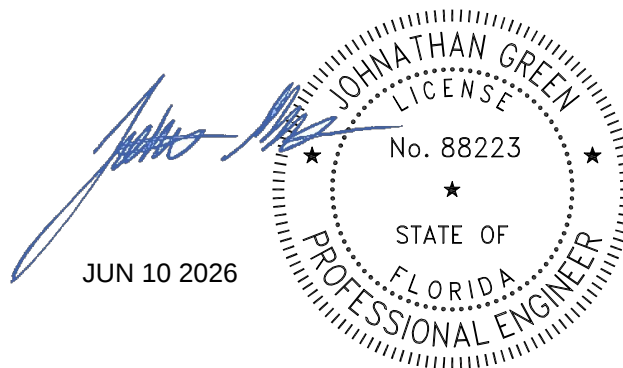
Metal Roof Supply
3190 Delta Ave.
Bartow, FL 33830

Engineer Evaluator:

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

Contents:

Evaluation Report: Page 1 - 3
Installation Detail: Page 4



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

PRINTED COPIES OF THIS
DOCUMENT ARE NOT
CONSIDERED SIGNED
AND SEALED AND THE
SIGNATURE MUST BE
VERIFIED ON ANY
ELECTRONIC COPIES.



- 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 2x4 wood purlins. 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. 2x4 #2 SYP wood purlins laid flat over open wood framing at 24" O.C. max. (2) #9 x 3" deck screws into wood framing at 24" O.C. Max. Design of 2x4 and wood framing supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code.

Allowable Design Uplift Pressures:

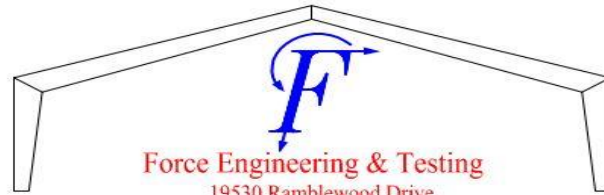
Table "A"

Maximum Allowable Design Uplift Pressure:	86.0 psf	119.8 psf	153.5 psf
Fastener Pattern:	9"-9"-9"-6"-3"	9"-9"-9"-6"-3"	9"-9"-9"-6"-3"
2x4 Wood Purlin/Fastener Pattern Spacing:	24" O.C.	18" O.C.	12" O.C.

*Design Pressure includes a Safety Factor = 2.0.

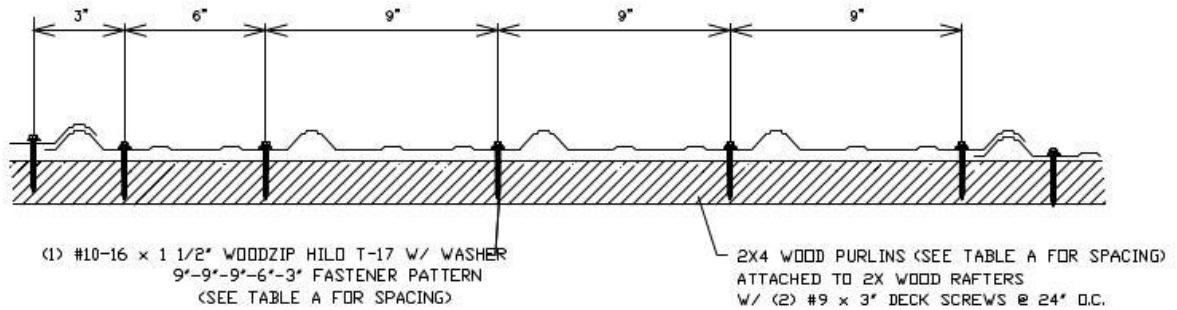


Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1504.3.2, 1504.7.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to 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.
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.



Force Engineering & Testing
 19530 Ramblewood Drive
 Humble, Texas 77338
 Office: (281) 540-6603 Test Lab: (832) 720-4251
www.forceengineeringtesting.com

FASTENER PATTERN AT PANEL INTERIOR



FASTENER PATTERN AT PANEL ENDS

