

Force Engineering & Testing

19530 Ramblewood Drive

Humble, Texas 77338

Phone: (281) 540-6603 FAX: (281) 540-9966

Website: www.forceengineeringtesting.com

Product Evaluation Report

METAL HERO

26 Ga. Hero R-Panel Roof Panel over open framing

Florida Product Approval # 42316.2

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 Hero

2910 Lausat St.

Metairie, LA 70001

Engineer Evaluator:

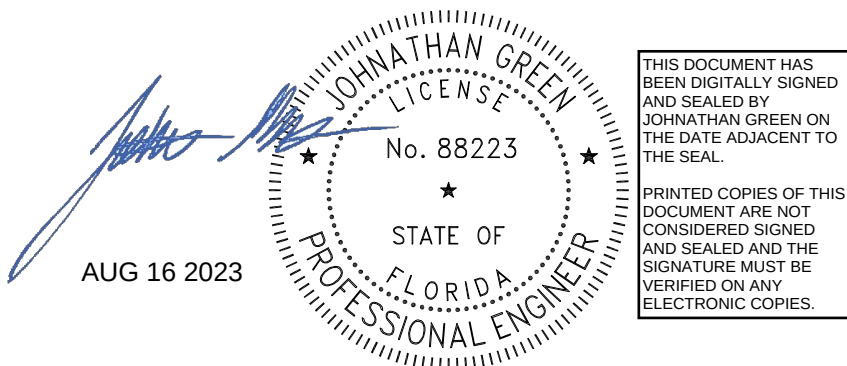
Johnathan Green, P.E. #88223

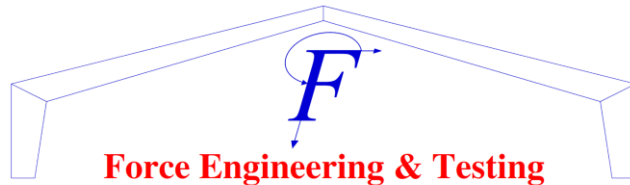
Florida Evaluation ANE ID: 12901

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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:** Hero R-Panel Roof Panel, 26 Ga. Steel, 36" Wide, through fastened structural roof panel. Structural Application.
- Panel Material/Standards:** Material: 26 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: 0.018" min.
Width: 36" maximum coverage
Rib Height: 1 1/4" major rib at 12" O.C.
- Panel Fastener:** #12-14 x 1-1/4" HWH Impax Sealer SD3 w/ EPDM washing or approved equal.
3/4-14 x 7/8" HWH Impax Sealer SD1 w/ EPDM washer or approved equal through panel side laps at 20" O.C.
Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.
- Substrate Description:** Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2023.
- Allowable Design Pressures:**

Table "A"

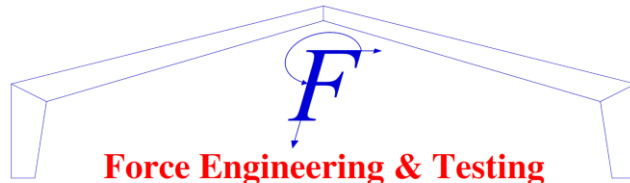
Maximum Design Pressure:	-44.2 psf	+49.5 psf	-124.9 psf	+163.9 psf
Fastener Pattern:	12"-12"-12"	12"-12"-12"	12"-12"-12"	12"-12"-12"
Fastener Spacing:	5'-0" O.C.	5'-0" O.C.	2'-0" O.C.	2'-0" O.C.

*Design Pressure includes a Safety Factor = 2.0

*Interpolation may be used between spacing.



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: ▪ ASTM E 1592-05 (2017) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference. ▪ FM 4471-92, Foot Traffic Resistance Test.
Reference Data:	1. ASTM E 1592-05 (2017) Force Engineering & Testing (FBC Organization # TST-5328) Report No. 785-0086T-23 2. FM 4471-10, Section 4.4 Foot Traffic Resistance Test Force Engineering & Testing (FBC Organization # TST-5328) Report No. 785-0086T-23 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 FM 4471-92.
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.
Insulation:	Manufacturer's approved product (Optional)
Roof Panel Fire Classification:	Fire classification is not part of this acceptance.
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, and Chapter 16 for structural loading.



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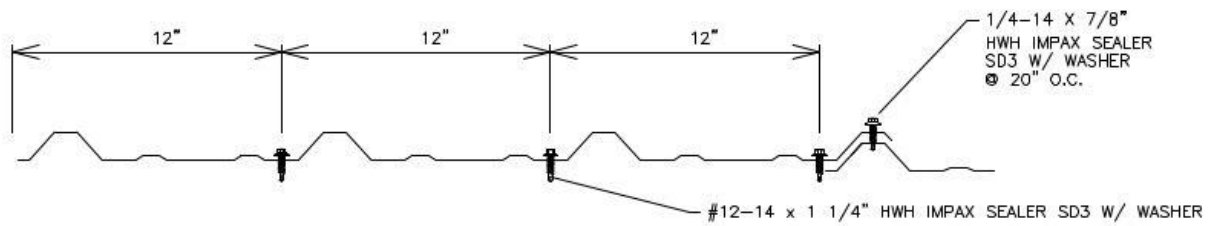
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PANEL INTERIOR FASTENER PATTERN



PANEL ENDS FASTENER PATTERN

