

Force Engineering & Testing
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Product Evaluation Report
METAL ROOF SUPPLY

26 Ga. Vanguard PBR Wall Panel over open framing

Florida Product Approval # 48260.1

Florida Building Code 2023
Per Rule 61G20-3
Method: 2 –B

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

Product Manufacturer:

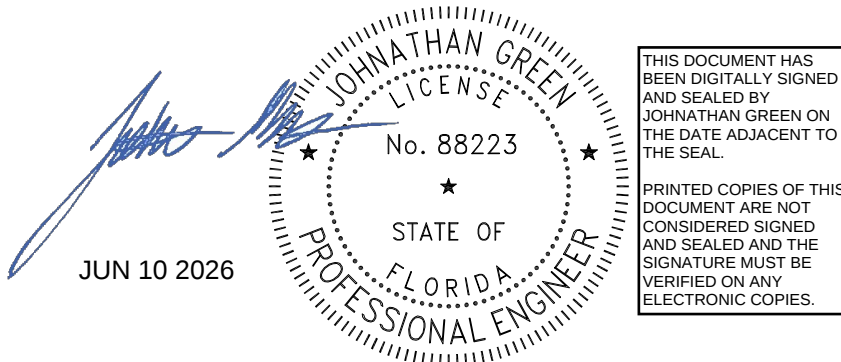
Metal Roof Supply
3190 Delta Ave.
Bartow, FL 33830

Engineer Evaluator:

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

Contents:

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





Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2023, Sections 1709.2

Product Description: Vanguard PBR Wall Panel, 26 Ga. Steel, 36" Wide, through fastened structural wall panel. Structural Application.

Panel Material/Standards: Material: Minimum 26 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2023 Section 1405.2.
 Yield Strength: Min. 50.0 ksi

Panel Dimension(s): Thickness: 0.0185" min. (Nominal)
 Width: 36" maximum coverage
 Rib Height: 1 1/4" major rib at 12" O.C.

Panel Fastener: #12-14 x 1-1/4" HWH Steelzip SD3 w/ EPDM washing or approved equal.
 1/4-14 x 7/8" HWH Steelzip SD1 w/ EPDM washer or approved equal through panel side laps at 20" O.C.
 Corrosion Resistance: Per Florida Building Code 2023.

Substrate Description: Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2023.

Allowable Design Pressures:

Table "A"

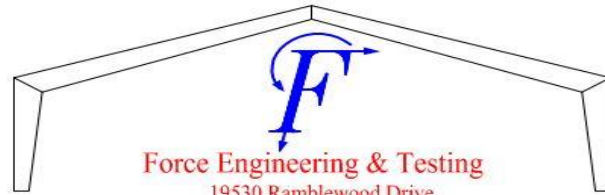
Maximum Allowable Design Pressure:	-44.2 psf	+39.0 psf	-130.1 psf	+161.3 psf
Fastener Pattern:	12"-12"-12"	12"-12"-12"	12"-12"-12"	12"-12"-12"
Fastener Spacing:	5'-0" O.C.	5'-0" O.C.	2'-0" O.C.	2'-0" O.C.

*Design Pressure includes a Safety Factor = 2.0

*Interpolation may be used between spacing.

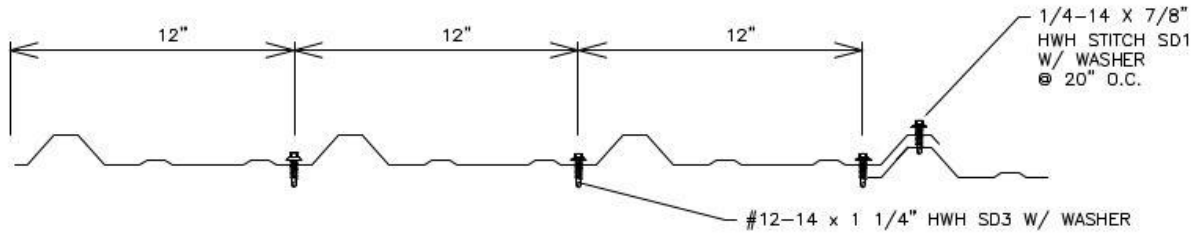


Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1709.2
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to Rule 61G20-3.
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.
Reference Data:	1. ASTM E 1592-05 (2017) Force Engineering & Testing (FBC Organization # TST-5328) Report No. 818-0080T-26 2. Certificate of Independence By Johnathan Green, P.E. #88223
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.
Insulation:	Manufacturer's approved product (Optional)
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 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 2023 Chapter 22 for steel, and Chapter 16 for structural loading.



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PANEL INTERIOR FASTENER PATTERN



PANEL ENDS FASTENER PATTERN

