

Force Engineering & Testing

19530 Ramblewood Drive
Humble, Texas 77338
Phone: (281) 540-6603 FAX: (281) 540-9966
Website: www.forceengineeringtesting.com

Product Evaluation Report
SUNSHINE METAL SUPPLY, INC.

26 Ga. PBR Roof Panel over Plywood

Florida Product Approval # 41159.3

Florida Building Code 2020
Per Rule 61G20-3
Method: 1 -D

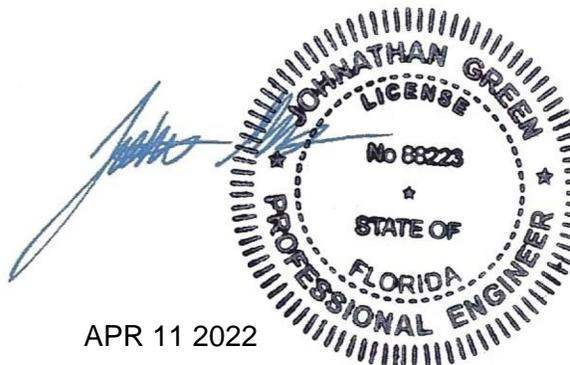
Category: Roofing
Subcategory: Metal Roofing
Compliance Method: 61G20-3.005(1)(d)
NON HVHZ

Product Manufacturer:
Sunshine Metal Supply, Inc.
719 Cattleman Road
Sarasota, Florida 34232

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

Validator:
Brian Jaks, P.E. # 70159

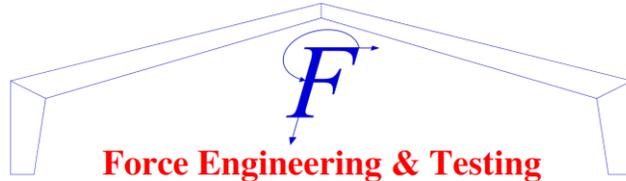
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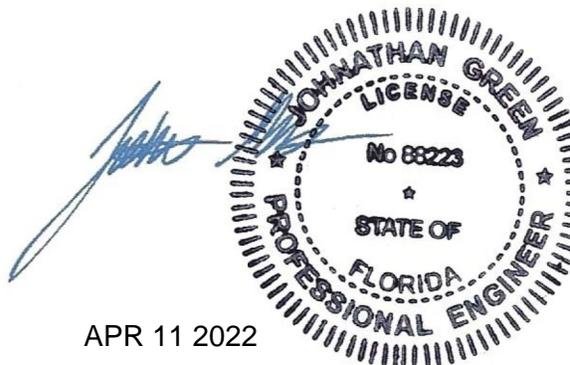
- Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2020, Sections 1504.3.2.
- Product Description:** PBR Roof Panel, 26 Ga. Steel, 36" coverage, through fastened roof panel fastened into minimum 15/32" APA Rated Plywood decking. Non-Structural Application.
- Panel Material/Standards:** Material: Minimum 26 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2020 Section 1507.4.3. Paint finish optional.
Yield Strength: Min. 80.0 ksi
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2020, Section 1507.4.3.
- Panel Dimension(s):** Thickness: 0.0185" min.
Width: 36" maximum coverage
Rib Height: 1 1/4" tall major rib at 12" O.C.
- Panel Fastener:** #10-15 x 1 1/2" HWH WoodZAC HiLo with sealing washing or approved equal.
1/4"-14 x 7/8" Flange-Seal SD1 w/ sealing washer through panel side laps at 20" O.C.
Corrosion Resistance: Per Florida Building Code 2020, Section 1507.4.4.
- Substrate Description:** Minimum 15/32" thick APA Rated plywood over supports at maximum 24" O.C. Design of plywood and plywood supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code.

Allowable Design Uplift Pressures:

TABLE A

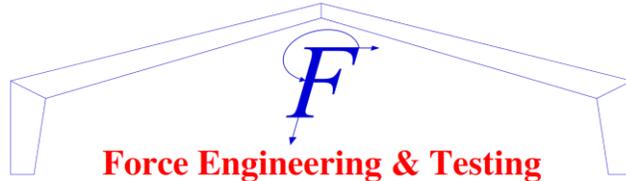
Maximum Allowable Uplift Design Pressure:	131.0 psf	101.0 psf	71.0 psf
Fastener Pattern:	12"-12"-12"	12"-12"-12"	12"-12"-12"
Fastener Spacing:	8" O.C.	12" O.C.	16" O.C.

*Design Pressure includes a Safety Factor = 2.0.



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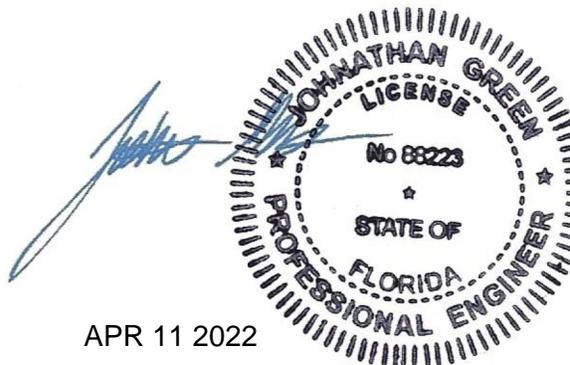
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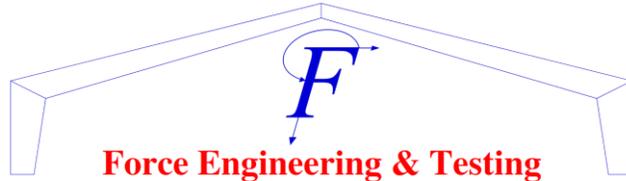
- Code Compliance:** The product described herein has demonstrated compliance with The Florida Building Code 2020, Section 1504.3.2.
- Evaluation Report Scope:** The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2020, as relates to Rule 61G20-3.
- Performance Standards:** The product described herein has demonstrated compliance with:
- UL 580-06 - Test for Uplift Resistance of Roof Assemblies
 - UL 1897-2012 - Uplift Test for Roof Covering Systems
- Reference Data:**
1. UL 580-06 / 1897-2012 Uplift Test
Force Engineering & Testing (FBC Organization # TST-5328)
Report No. 596-0006T-22.
 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.
- Minimum Slope Range:** Minimum Slope shall comply with Florida Building Code 2020, 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 2020, Section 1507.1 and manufacturer’s installation guidelines.



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Roof Panel Fire Classification:

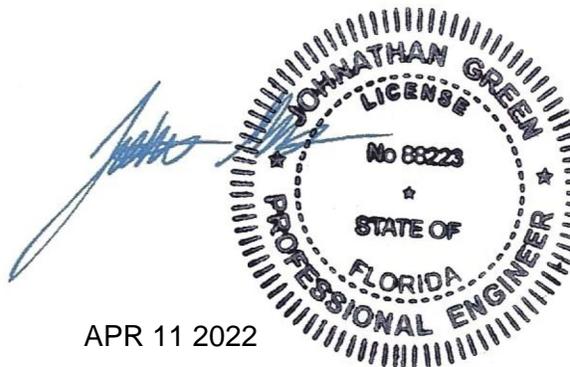
Fire classification is not part of this evaluation.

Shear Diaphragm:

Shear diaphragm values are outside the scope of this report.

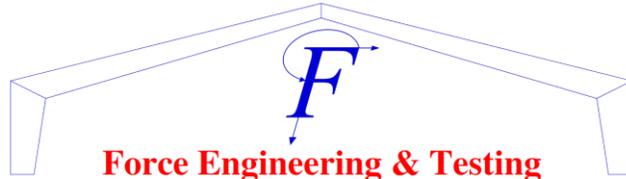
Design Procedure:

Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2020 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 2020 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.



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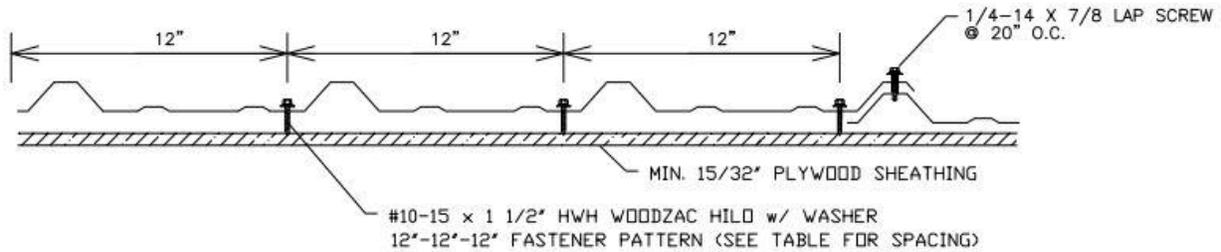
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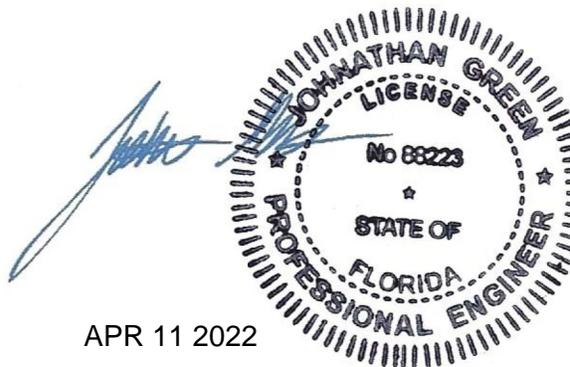
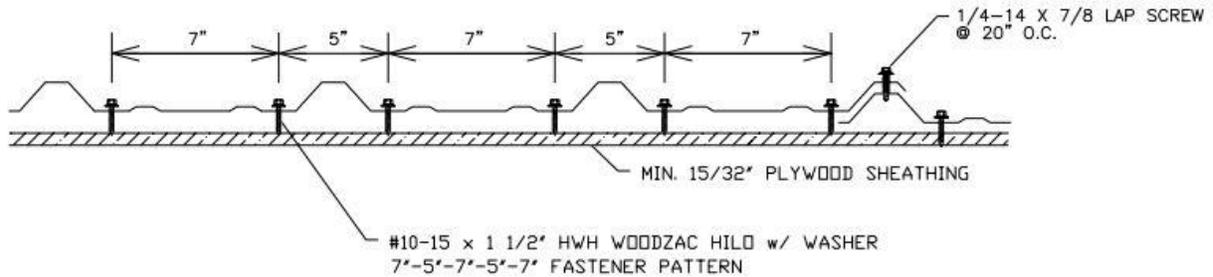
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FASTENER PATTERN AT PANEL INTERIOR



FASTENER PATTERN AT PANEL ENDS



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