



**Product Evaluation Report**  
**METAL ROOFING CENTER, INC.**

**26 Ga. PBR Panel 36" Coverage Over 15/32" Plywood**

**Florida Product Approval # 18524.2 R2**

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:  
**Metal Roofing Center, Inc.**  
9392 Hard Drive  
Foley, Alabama 36535

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

Validator:  
**Brian Jaks, P.E. #70159**

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**FL# 18524.2 R2**



**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 Panel 26-gauge steel, 36" coverage, through fastened roof panel over minimum 15/32" APA Rated Plywood decking. Non-Structural Application.

**Panel Material/Standards:** Material: Minimum 26-gauge steel, 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: 0.0190" min.  
 Width: 36" maximum coverage  
 Rib Height: 1-1/4" major rib at 12" O.C.

**Panel Fastener:** #9-15 x 1 1/2" WoodZac with sealing washer or approved equal; 1/4" minimum penetration through plywood.  
 1/4-14 x 7/8" HWH LapTek ZAC with sealing washer at 24" O.C. through panel sidelaps.  
 Corrosion Resistance: Per Florida Building Code 2020, Section 1507.4.4.

**Substrate Description:** Minimum 15/32" APA Rated plywood over supports at 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 Uplift Design Pressure:	-60.5 psf	-154.8 psf
Fastener Pattern:	12"-12"-12"	7"-5"-7"-5"-7"-5"
Fastener Pattern Spacing:	24" O.C.	12" O.C.

\*Design Pressure includes a Safety Factor = 2.0.



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<b>Code Compliance:</b>	The product described herein has demonstrated compliance with The Florida Building Code 2020, Section 1504.3.2.
<b>Evaluation Report Scope:</b>	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.
<b>Performance Standards:</b>	The product described herein has demonstrated compliance with: <ul style="list-style-type: none"><li>▪ UL 580-06 - Test for Uplift Resistance of Roof Assemblies</li><li>▪ UL 1897-2012 - Uplift Test for Roof Covering Systems</li></ul>
<b>Reference Data:</b>	<ol style="list-style-type: none"><li>1. UL 580-94 (Rev. 1998) / 1897-98 Uplift Test Force Engineering &amp; Testing, Inc. (FBC Organization # TST-5328) Report No. 84-0239T-06</li><li>2. Certificate of Independence By Johnathan Green, P.E. (No. 88223) @ Force Engineering &amp; Testing (FBC Organization # ANE ID: 12901)</li></ol>
<b>Test Standard Equivalency:</b>	<ol style="list-style-type: none"><li>1. The UL 1897-98 test standard is equivalent to the UL 1897-2012 test standard.</li><li>2. The UL 580-94 (Rev. 1998) test standard is equivalent to the UL 580-06 test standard.</li></ol>
<b>Quality Assurance Entity:</b>	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.
<b>Minimum Slope Range:</b>	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.
<b>Installation:</b>	Install per manufacturer's recommended details.



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**Underlayment:** Per Florida Building Code 2020, Section 1507.1 and manufacturer's installation guidelines.

**Roof Panel Fire Classification:** Fire classification is not part of this acceptance.

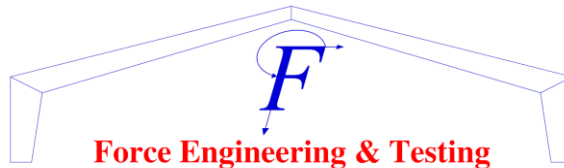
**Shear Diaphragm:** Shear diaphragm values are outside the scope of this report.

**Design Procedure:** Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 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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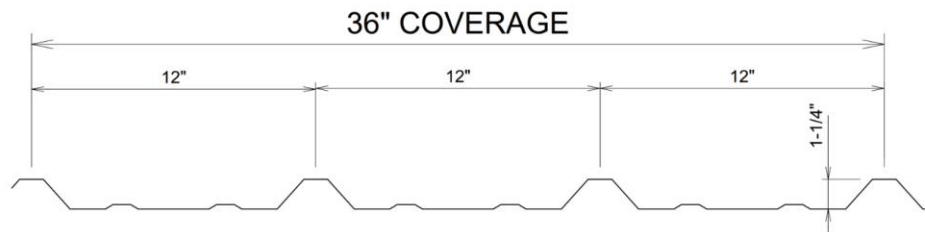


## Force Engineering & Testing

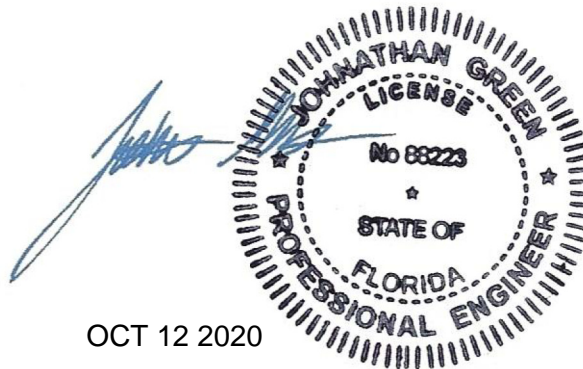
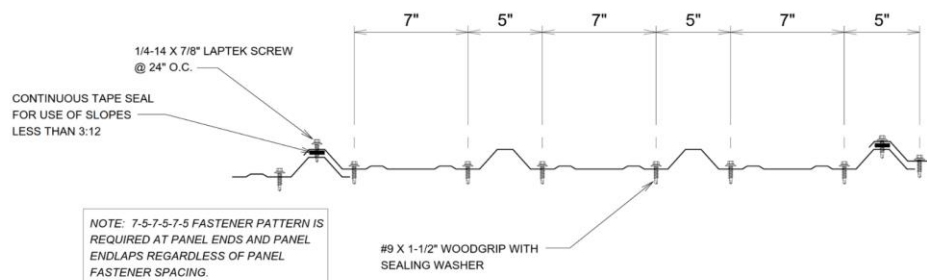
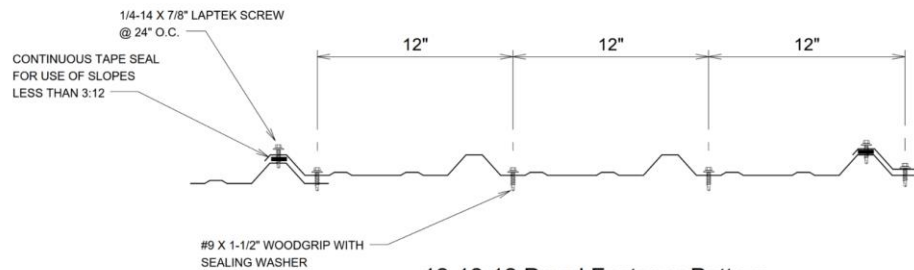
19530 Ramblewood Drive  
Humble, Texas 77338

Phone: (281) 540-6603 FAX: (281) 540-9966  
Website: [www.forceengineeringtesting.com](http://www.forceengineeringtesting.com)

## PBR Panel Profile and Fastener Attachment



### PBR Panel Profile



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