

Website: www.forceengineeringtesting.com
Product Evaluation Report

## TRI COUNTY METALS

## Min. 26 Ga. PBR Roof Panel over 15/32" Plywood

## Florida Product Approval # 4595.10 R5

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

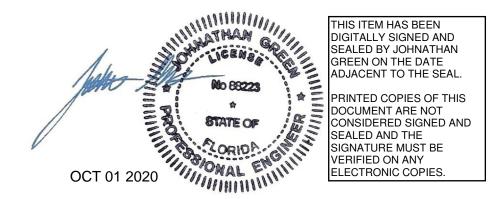
> Product Manufacturer: Tri County Metals 301 SE 16<sup>th</sup> Street Trenton, Florida 32693

Engineer Evaluator:

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

> Validator: Brian Jaks P.E. #70159

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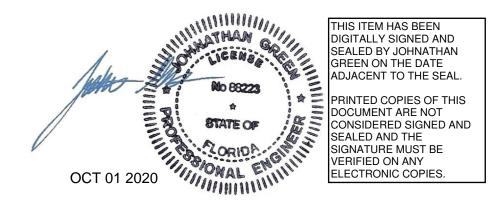


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	Force Engin	eering & Testing
	19530 Ra	amblewood Drive
		le, Texas 77338 6603 FAX: (281) 540-9966
		rceengineeringtesting.com
Compliance Statement:	The product as de	scribed in this report has demonstrated compliance with the
	Florida Building Co	de 2020, Sections 1504.3.2, 1504.7.
Product Description:	PBR Roof Panel, Mi	in. 26 Ga. Steel, 36" coverage, through fastened roof panel over
	Min. 15/32" APA P	lywood decking. Non-structural Application.
Panel Material/Standards:	Material: Min. 26 Ga. Steel, conforming to Florida Building Code 2020 Section	
	1507.4.3. Paint fin	•
	Yield Strength: Mi	
		ce: Panel Material shall comply with Florida Building Code
	2020, Section 1507	.4.3.
Panel Dimension(s):		0.018″ min.
		36" maximum coverage
	Rib Height:	1 ¼" tall major ribs at 12" O.C.
Panel Fastener:	#9-15 x 1-1/2" Woodgrip with sealing washing or approved equal	
		tration through plywood
		vith sealing washer through panel side laps at 24" O.C.
	Corrosion Resistan	ce: Per Florida Building Code 2020, Section 1507.4.4.
Substrate Description:	Min. 15/32" thick, APA Rated plywood over supports at maximum 24" O.C.	
	• • • •	and plywood supports are outside the scope of this
		ate must be designed in accordance w/ Florida Building Code
	2020.	
Allowable Design Uplift Pressures:		

Allowable	Design	Uplift	Pressures:
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Table "A"				
Maximum Total Uplift Design Pressure:	63.5 psf	93.5 psf		
Fastener Pattern:	12"-12"-12"	7"-5"-7"-5"-7"		
Fastener Spacing:	24" O.C.	24″ O.C.		

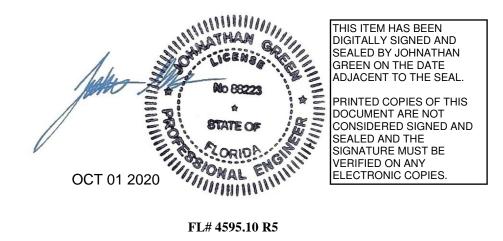
\*Design Pressure includes a Safety Factor = 2.0.





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

Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2020, 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 2020, as relates to Rule 61G20-3.	
Performance Standards:	<ul> <li>The product described herein has demonstrated compliance with:</li> <li>UL 580-06 - Test for Uplift Resistance of Roof Assemblies</li> <li>UL 1897-2012 - Uplift Test for Roof Covering Systems</li> <li>FM 4471-92 - Foot Traffic Resistance Test</li> </ul>	
Reference Data:	<ol> <li>UL 580-06 / 1897-04 Uplift Test Force Engineering &amp; Testing, Inc. (FBC Organization # TST-5328) Report No. 136-0173T-12</li> <li>FM 4471-10, Section 4.4 Foot Traffic Resistance Test Force Engineering &amp; Testing, Inc. (FBC Organization # TST-5328) Report No. 136-0173T-12</li> <li>Certificate of Independence By Johnathan Green, P.E. (No. 88223) @ Force Engineering &amp; Testing (FBC Organization # ANE ID: 12901)</li> </ol>	
Test Standard Equivalency:	The UL 1897-04 test standard is equivalent to the UL 1897-2012 test standard. 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 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.	



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**Underlayment:** 

**Design Procedure:** 

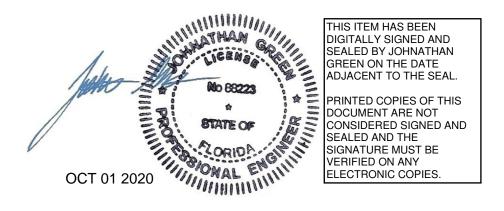
**Roof Panel Fire Classification:** 

Per Florida Building Code 2020, Section 1507.1.1 and manufacturer's installation guidelines.

Fire classification is not part of this acceptance.

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

> 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.



## MIN. 26 GA. PBR PANEL OVER MIN. 15/32" PLYWOOD

