

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ [www.floridabuilding.org](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES			
B. NON-STRUCTURAL METAL	Tri County Metals	29 Gauge, Uta Rib Panel, 36" wide	4595.17 R5
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
<b>5. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
<b>6. NEW EXTERIOR ENVELOPE PRODUCTS</b>			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

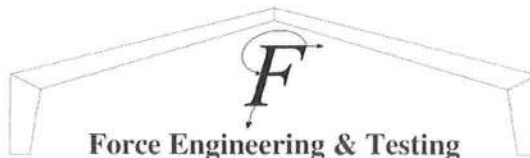
Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Contractor OR Agent Signature \_\_\_\_\_

Date \_\_\_\_\_

NOTES: \_\_\_\_\_

\_\_\_\_\_



**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)

**Product Evaluation Report  
TRI COUNTY METALS**

**29 Ga. Ultra-Rib Roof Panel over 1x4 Wood Purlins over 15/32" Plywood**

**Florida Product Approval # 4595.17 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:**

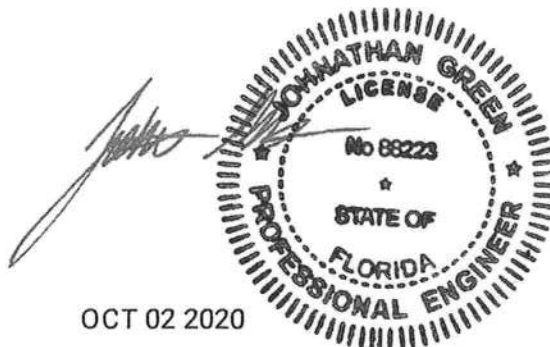
Johnathan Green, P.E. #88223  
Florida Evaluation ANE ID: 12901

**Validator:**

Brian Jaks P.E.# 70159

**Contents:**

Evaluation Report      Pages 1 – 4



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FL# 4595.17 R5



**Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2020, Sections 1504.3.2, 1504.7.

**Product Description:** Ultra-Rib Roof Panel, Min. 29 Ga. Steel, 36" Wide, through fastened roof panel over 1x4 wood purlins over one layer of asphalt shingles (optional) over min. 15/32" APA Plywood decking. Non-Structural Application.

**Panel Material/Standards:** Material: Min. 29 Ga. Steel conforming to Florida Building Code 2020 Section 1507.4.3.  
 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: 0.015" min.  
 Width: 36" maximum coverage  
 Rib Height: 3/4" major rib at 9" O.C.

**Panel Fastener:** #9-15 x 1-1/2" HWH Woodgrip with sealing washing or approved equal  
 1/4" minimum penetration through plywood  
 Corrosion Resistance: Per Florida Building Code 2020, Section 1507.4.4.

**Substrate Description:** Min. 1x4 No. 2 SYP wood purlins over maximum one layer of asphalt shingles/felt paper (optional) over min. 15/32" thick APA rated plywood over supports at maximum 24" O.C. The 1x4 wood purlins shall be fastened to the plywood with (1) 8d x 2 1/2" Ring Shank Nail at 4" O.C.. Design of 1x4 wood purlins, plywood and plywood supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code 2020.

**Allowable Design Uplift Pressures:**

Table "A"

Maximum Total Uplift Design Pressure:	78.5 psf	86.0 psf
Fastener Pattern:	9"-9"-9"-9"	6"-3"-6"-3"-6"-3"-6"
Fastener Spacing:	24" O.C.	24" O.C.

\*Design Pressure includes a Safety Factor = 2.0.



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**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:** 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
- FM 4471-92 - Foot Traffic Resistance Test

**Reference Data:**

1. UL 580-06 / 1897-04 Uplift Test  
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)  
Report No. 136-0027T-12A, B, Dated 02/16/2012.
2. FM 4471-10, Section 4.4 Foot Traffic Resistance Test  
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)  
Report No. 136-0027T-12C, Dated 02/16/2012
3. Certificate of Independence  
By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing  
(FBC Organization # ANE ID: 12901)

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

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

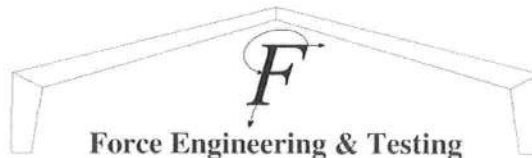
**Shear Diaphragm:** Shear diaphragm values are outside the scope of this report.

**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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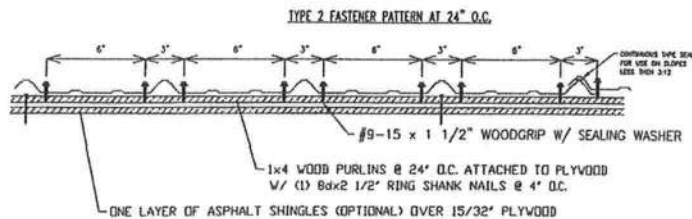
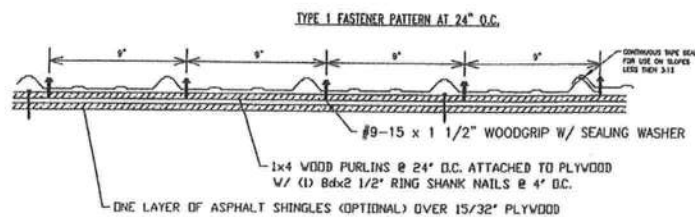
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## MIN. 29 GA. ULTRA-RIB PANEL OVER 1X4 WOOD PURLINS



OCT 02 2020

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