

Product Evaluation Report
TRI COUNTY METALS

Website: www.forceengineeringtesting.com

1-1/2" Snap Lock, 24 Ga. Roof Panel over Plywood

Florida Product Approval # 4595.12 R5

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

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

Product Manufacturer:
Tri County Metals
301 S. E. 16th Street
Trenton, Florida 32693

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

Validator:
Brian Jaks P.E. #70159

Contents:

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHNATHAN GREEN ON THE DATE ADJACENT TO THE SEAL.



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

Compliance Statement: The product as described in this report has demonstrated compliance with the

Florida Building Code 2020, Sections 1504.3.2, 1518.9, 1523.6.5.2.4.

Product Description: 1-1/2" Snap Lock Standing Seam Roof Panel, 24 Ga. Steel, 16" Wide, Roof Panel

restrained with steel slider clips into APA Plywood decking. Non-structural

Application.

Panel Material/Standards: Material: 24 Ga. Steel, ASTM A792 unpainted or painted with Valspar Fluropon

or ASTM A653 G90 conforming to Florida Building Code 2020 Section 1507.4.3.

Yield Strength: Min. 50.0 ksi

Corrosion Resistance: Panel Material shall comply with Florida Building Code

2020, Section 1507.4.3

Panel Dimension(s): Thickness: 0.024"

Width: 16" max coverage

Rib Height: 1-1/2"
Panel Seam: Snap Lock

Roof Panel Clips: Product Name: 1500SNS

Type: Fixed, 18 Ga., 3 ½" long

Corrosion Resistance: Per Florida Building Code 2020 Section 1506.7

Roof Clip Fastener: (2) #12-11 Pancake Type A

1/4" minimum penetration through plywood

Corrosion Resistance: Per Florida Building Code 2020, Section 1517.6.

Substrate Description: 1) For HVHZ construction, use 19/32" or greater APA Rated plywood or wood

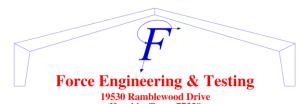
plank. In reroofing applications where the deck is less than 19/32" thick (min. 15/32") the attachment of the decking in no case shall be less than 8D annual ring shank nails at 6" O.C. Design of plywood and plywood supports are outside the scope of this evaluation. Substrate must be designed in accordance w/

Florida Building Code 2020.

2) For Non-HVHZ applications, use min. 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 2020.



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Allowable Design Uplift Pressures:

Table "A"

Maximum Total Uplift Design Pressure:	86.0 psf	108.5 psf	116.0 psf
Clip Spacing:	24" O.C.	12" O.C.	6" O.C.
# Fasteners per Clip:	2	2	2

^{*}Design Pressure includes a Safety Factor = 2.0.

Code Compliance: The product described herein has demonstrated compliance with

The Florida Building Code 2020, Section 1504.3.2, 1518.9, 1523.6.5.2.4.

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:

■ TAS 125-03

UL 580-06 - Test for Uplift Resistance of Roof Assemblies

■ UL 1897-2012 - Uplift Test for Roof Covering Systems

 TAS 100-95 - Test Procedure for Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems

TAS 110-00 - Accel. Weathering ASTM G 155 / Salt Spray ASTM B 117

Reference Data:

- TAS 125-03: UL 580-94 / 1897-98 Uplift Test
 Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
 Report No. 72-0108T-07*, Dated 03/28/2007
- 2. TAS 100-95

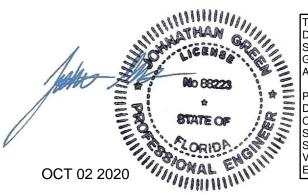
Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654) Report No. T107-07*, Dated 01/15/2007

- TAS 110-00: Valspar Fluropon coated metal panel testing
 A) ASTM G 155 by PRI Asphalt Technologies dated 10/31/2012
 B) ASTM B 117 by PRI Asphalt Technologies dated 10/31/2012
- 4. Certificate of Independence

By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing (FBC Organization # ANE ID: 12901)

Test Standard Equivalency:

- 1. The UL 580-94 test standard is equivalent to the UL 580-06 test standard.
- 2. The UL 1897-98 test standard is equivalent to the UL 1897-2012 test standard.



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Quality Assurance Entity: The manufacturer has established compliance of roof panel products in

accordance with the Florida Product Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved

quality assurance entity.

Minimum Slope Range: 2:12. Minimum Slope shall comply with Florida Building Code 2020, including

Sections 1515.2.2 and in accordance with Manufacturers recommendations.

Installation: Install per manufacturer's recommended details and RAS 133.

Underlayment: Per Manufacturer's installation guidelines per Florida Building Code 2020 Section

1518.2, 1518.3, 1518.4.

Fire Barrier: Any approved fire barrier having a current NOA. Refer to a current fire directory

listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. 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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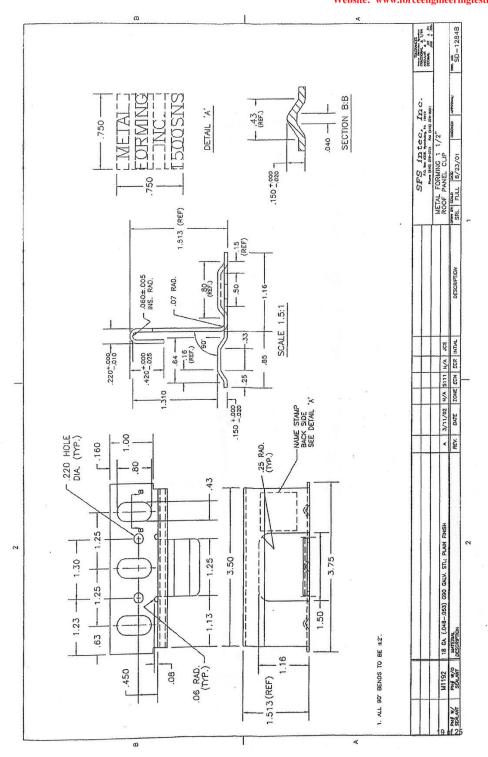
^{*}The Test Reports are owned by Metalforming, Inc. Metalforming, Inc. gives the above manufacturer permission to use these test reports.

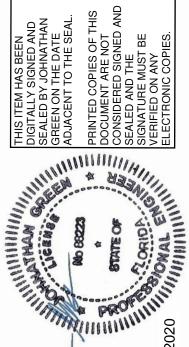


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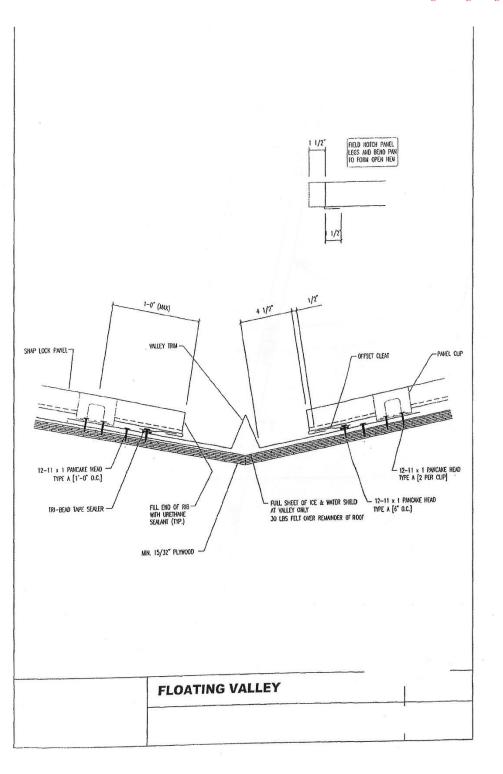




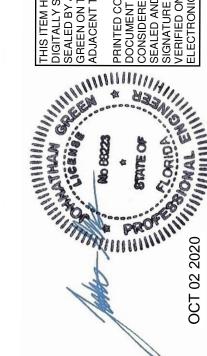
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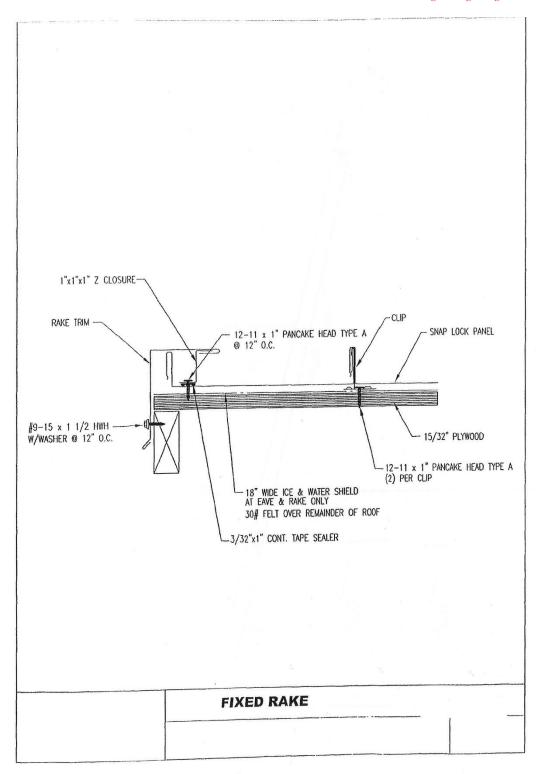


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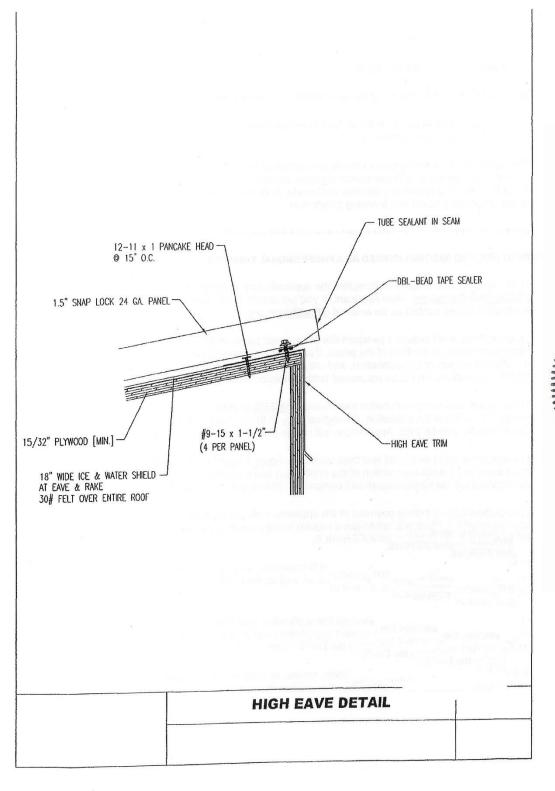
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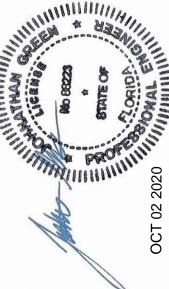
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