

Product Evaluation Report TRI COUNTY METALS

## Aluminum Mechanical-Seam Lok 1 ½" 16" Wide Roof Panel over Plywood

## Florida Product Approval # 4595.3 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

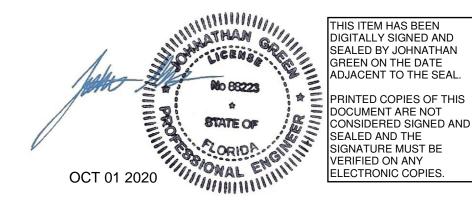
> Product Manufacturer: Tri County Metals 301 S. E. 16th Street Trenton, Florida 32693

Engineer Evaluator:

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

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

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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, 1518.9, 1523.6.5.2.4. **Product Description:** Aluminum Mechanical-Seam Lok 1 1/2" Standing Seam Roof Panel, 0.032" Aluminum, 16" Wide, Roof Panel restrained with stainless steel slider clips into APA Plywood decking. Non-Structural Application. Panel Material/Standards: Material: 0.032" Aluminum unpainted or painted with Valspar Fluropon conforming to Florida Building Code 2020 Section 1507.4.3. Corrosion Resistance: Panel Material shall comply with Florida Building Code 2020, Section 1507.4.3 Panel Dimension(s): Thickness: 0.032" Width: 16" max coverage Rib Height: 1 1/2" Panel Seam: 180° Seam, Double Lock w/ mechanical seamer

Product Name:

Corrosion Resistance:

(2) #14-13 x 1-1/2" DP1 Concealor

¼" minimum penetration through plywood

Top: Base:

**Roof Panel Clip:** 

**Roof Clip Fastener:** 

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.

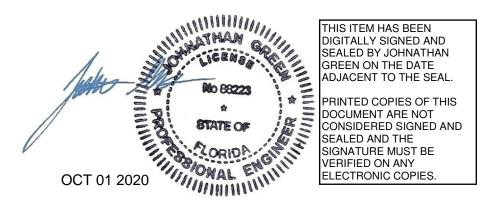
Corrosion Resistance: Per Florida Building Code 2020, Section 1517.6.

1500SS Floating Clip 26 Ga. Stainless Steel

16 Ga. Galvanized Steel

Per Florida Building Code 2020 Section 1506.7

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.





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

## Allowable Design Uplift Pressures:

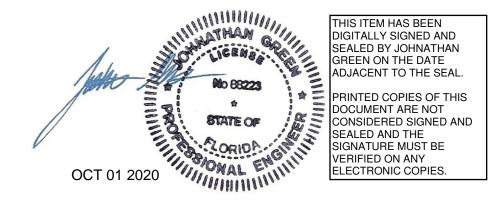
Anowable Design opine ressures.	Table "A"			
	Maximum Total Uplift Design Pressure:	78.5 psf	93.5 psf	
	Clip Spacing:	18″ O.C.	6" O.C.	
	# Fasteners per Clip:	2	2	
	*Design Pressure includes a Safety Factor =	2.0.		
Code Compliance:	The product described herein has den The Florida Building Code 2020, Section		•	.2.4.
Evaluation Report Scope:	The product evaluation is limited to correquirements of the Florida Building C			
Performance Standards:	<ul> <li>The product described herein has demonstrated compliance with:</li> <li>TAS 125-03</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>TAS 100-95 - Test Procedure for Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems</li> <li>TAS 110-00 - Accel. Weathering ASTM G 155 / Salt Spray ASTM B 117</li> </ul>			
Reference Data:	<ol> <li>TAS 125-03: UL 580-94 / 1897-98 Force Engineering &amp; Testing, Inc. Report No. 72-0084T-11A-C*, Date TAS 100-95 Farabaugh Engineering &amp; Testing, Report No. T322-11*, Dated 11/0</li> <li>TAS 110-00: Valspar Fluropon coa A) ASTM G 155 by PRI Asphalt Te B) ASTM B 117 by PRI Asphalt Te B) ASTM B 117 by PRI Asphalt Te</li> <li>Certificate of Independence By Johnathan Green, P.E. (No. 88 (FBC Organization # ANE ID: 1290)</li> </ol>	(FBC Organizat ed 11/04/2011 Inc. (FBC Orga 3/2011 ated metal pan chnologies dat chnologies dat chnologies dat	L nization # TST- el testing ed 10/31/2012 ed 10/31/2012	1654)
Test Standard Equivalency:	The UL 580-94 test standard is equivalent to the UL 580-06 test standard. The UL 1897-98 test standard is equivalent to the UL 1897-2012 test standard.			
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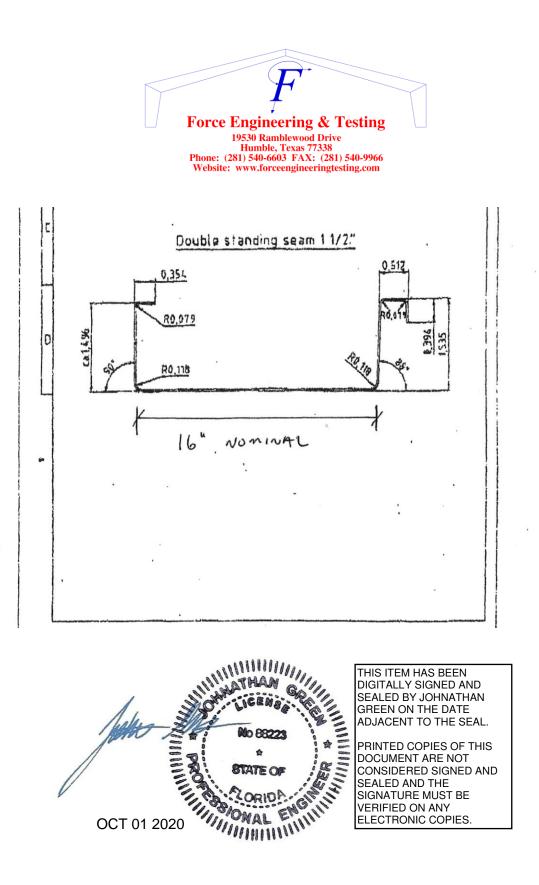
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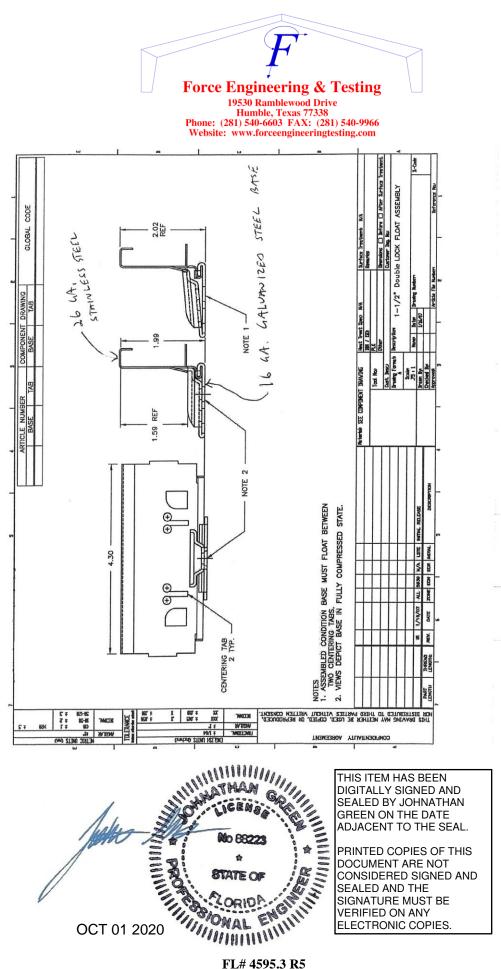


Quality Assurance Entity:	The manufacturer has established compliance of roof panel products in accordance with the Florida Product Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity
Minimum Slope Range:	2:12. Minimum Slope 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 and 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.

\*The Test Reports are owned by Metalforming, Inc. Metalforming, Inc. gives the above manufacturer permission to use these test reports

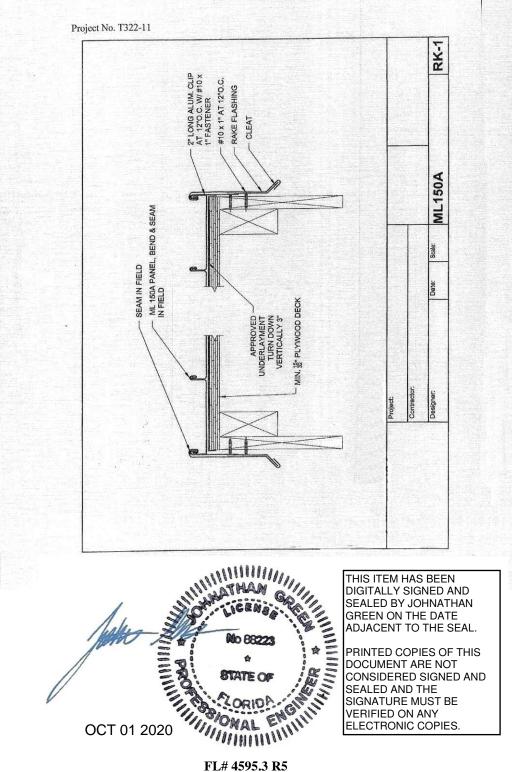






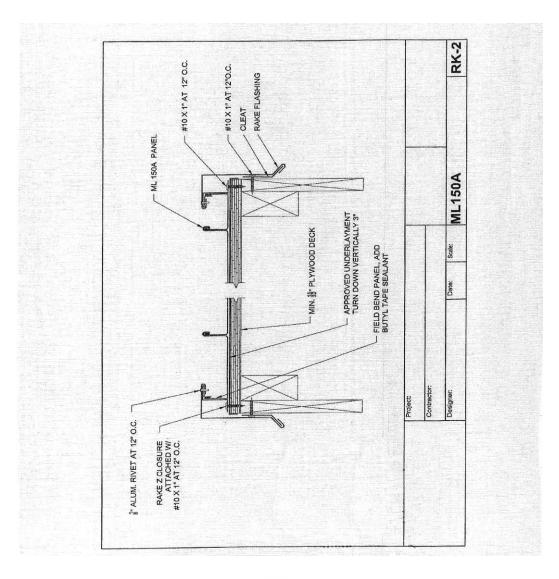
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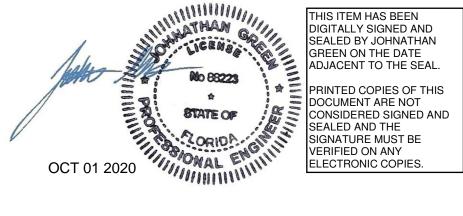
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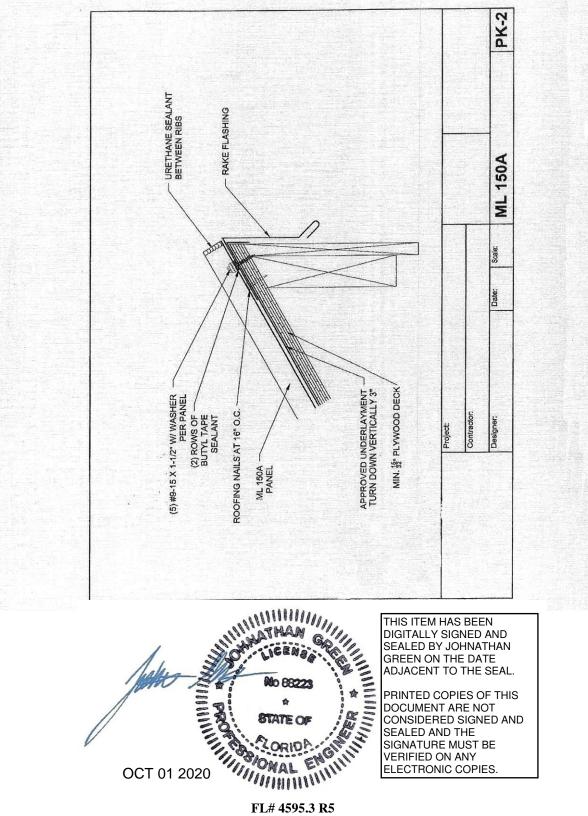
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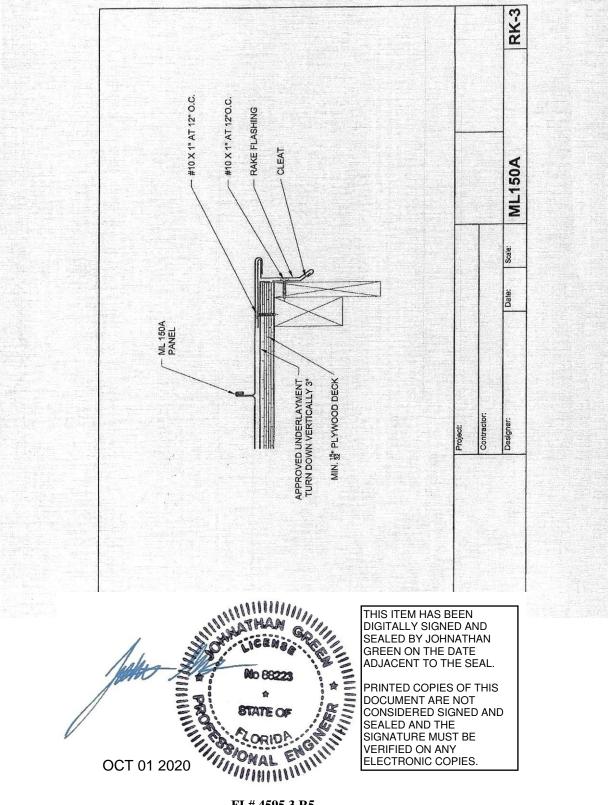


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