

Product Evaluation Report TRI COUNTY METALS

Aluminum Mechanical-Seam Lok 2", 0.032" Aluminum 19" Wide Roof Panel over 22 Ga. Steel Deck

Florida Product Approval # 4595.4 R5

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

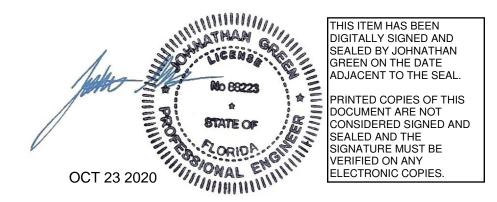
Category: Roofing Subcategory: Metal Roofing Compliance Method: 61G20-3.005(1)(d) HVHZ

> 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

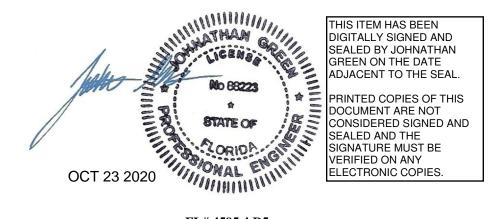
Contents: Evaluation Report Pages 1 – 4



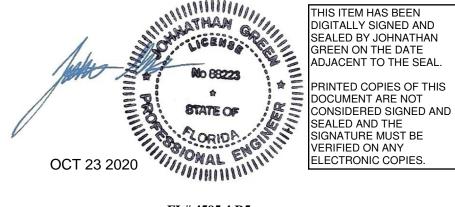
		Γ				
	Force Eng	, ineerin	a & Testina			
Force Engineering & Testing 19530 Ramblewood Drive						
	Phone: (281) 54		X: (281) 540-9966			
Website: www.forceengineeringtesting.com						
Compliance Statement:	The product as described in this report has demonstrated compliance with the					
	Florida Building (Code 201	7, Sections 1504.3.2, 1518.9, 1523.6.5.2.4.			
Product Description:	Aluminum Mechanical-Seam Lok Standing Seam Roof Panel, 0.032" Aluminum,					
	19" Wide, Roof I steel decking. No		trained with stainless steel slider clips into min. 22 Ga.			
	Steel decking. No	JII-Sti uctu				
Panel Material/Standards:	Material: 0.032" Aluminum, 3105 H-24 unpainted or painted with Valspar					
	•	-	orida Building Code 2020 Section 1507.4.3. el Material shall comply with Florida Building Code			
	2020, Section 15					
Panel Dimension(s):	Thickness: Width:	0.032"				
	Rib Height:	19 ma	x coverage			
	Panel Seam:		am, Double Lock w/ mechanical seamer			
Roof Panel Clips:	Product Name:		2000SNS, Sliding Clip Assembly			
	Туре:		Two Piece Slider			
	Top:		22 Ga. Stainless Steel			
	Base: Corrosion Resista	ance:	16 Ga. Galvanized Steel Per Florida Building Code 2020 Section 1506.7			
			5			
Roof Clip Fastener:	(2) #14-13 Dek Fast per clip ¾" minimum penetration through steel deck					
			through steel deck Florida Building Code 2020, Section 1517.6.			
	Corrosion Resista	ance. r ei	Fiorida Building Code 2020, Section 1917.0.			
Substrate Description:	Min. 22 Ga. steel deck, Min. Fy = 33 ksi. Design of steel deck and steel deck					
			cope of this evaluation. Substrate must be designed in			
Allowable Design Uplift Pressures:	accordance w/ Fl	iorida Bui	laing Coae 2020.			
Allowable besign opiner ressures.			Table "A"			

Table "A"				
Maximum Total Uplift Design Pressure:	71.0 psf	138.5 psf		
Clip Spacing:	24″ O.C.	6" O.C.		
# Fasteners per Clip:	2	2		

*Design Pressure includes a Safety Factor = 2.0.



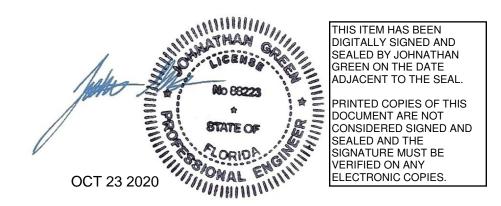
	Force Engineering & Testing
	19530 Ramblewood Drive
	Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966
	Website: www.forceengineeringtesting.com
Code Compliance:	The product described herein has demonstrated compliance with
	The Florida Building Code 2020, Section 1504.3.2, 1518.9, 1523.6.5.2.4.
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 1807 2012 - Uplift Test for Deef Covering Systems
	 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:	1. TAS 125-03: UL 580-94 / 1897-98 Uplift Test
	Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
	Report No. 72-0084T-08*, Dated 04/17/2008
	2. TAS 100-95
	Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654)
	Report No. T164-08*, Dated 04/24/2008
	 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:	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.
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
winning sope range.	Sections 1515.2.2 and in accordance with Manufacturers recommendations.



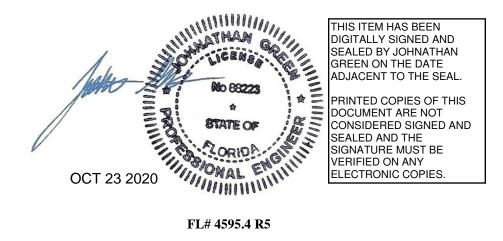
FL# 4595.4 R5

	Force Engineering & Testing 19530 Ramblewood Drive Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forceengineeringtesting.com
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:	½" Georgia Pacific "Dens Deck" or manufacturer approved equal with current NOA.
Insulation:	1"-4" thick Polyiso rigid insulation, min. 20 psi compressive strength. Manufacturer approved with current NOA and conforming to Florida Building Code 2020 Section 1520.
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.

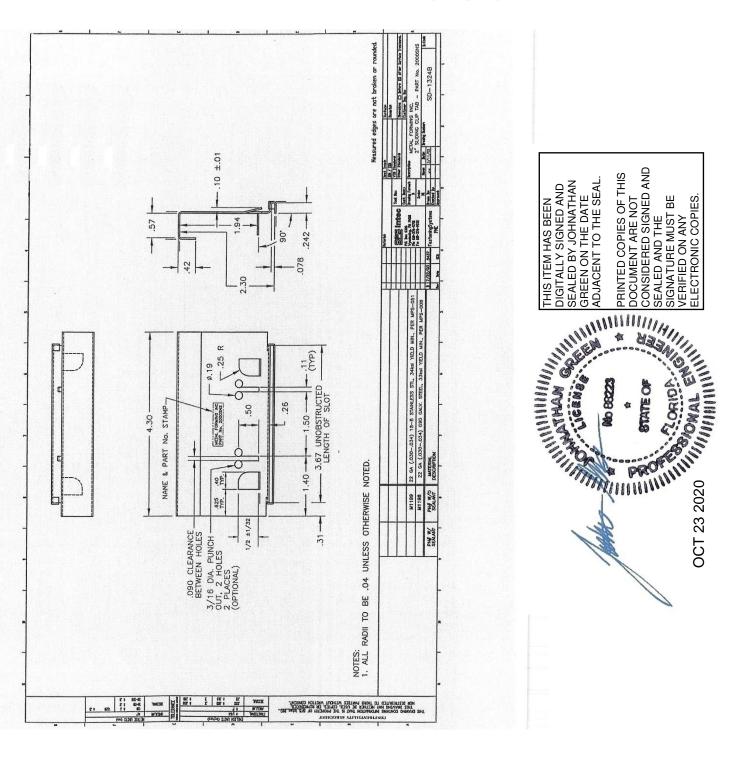
*The Test Reports are owned by Metalforming, Inc. Metalforming, Inc. gives the above manufacturer permission to use these test reports.

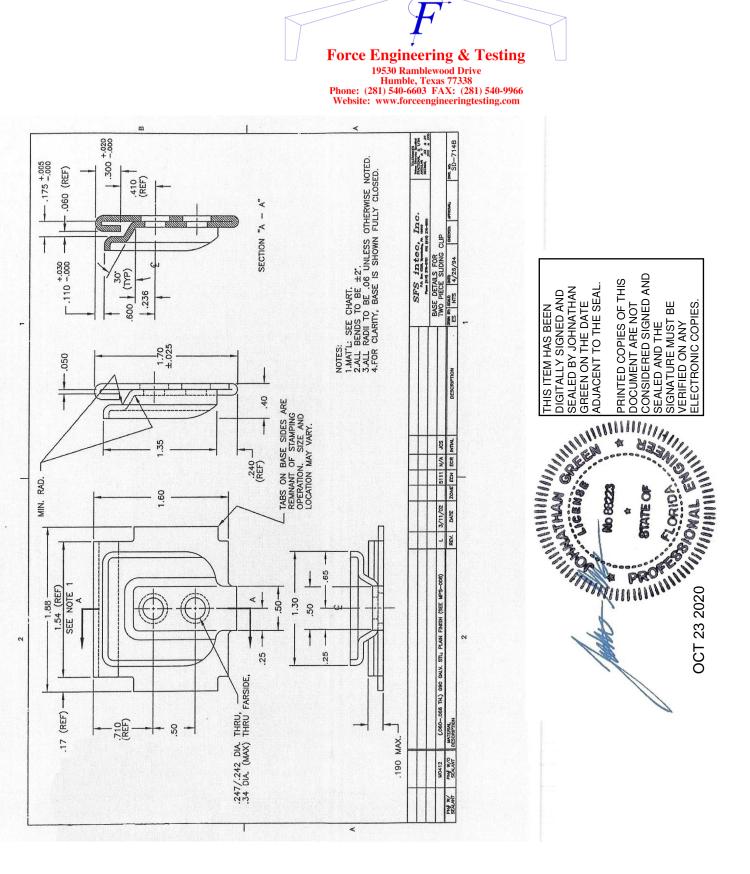


Force Engineering & Testing 19530 Ramblewood Drive Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forceengineeringtesting.com METALFORMING INC Page 6 **2 Inch Mechanical Lock Panel** R.079-.709 -R.079 .512 .551 -R.079 91.0 1.950 2.000 90.0 R.020 R.118-F.098 R.118 L 860. .98 -.984 11 19

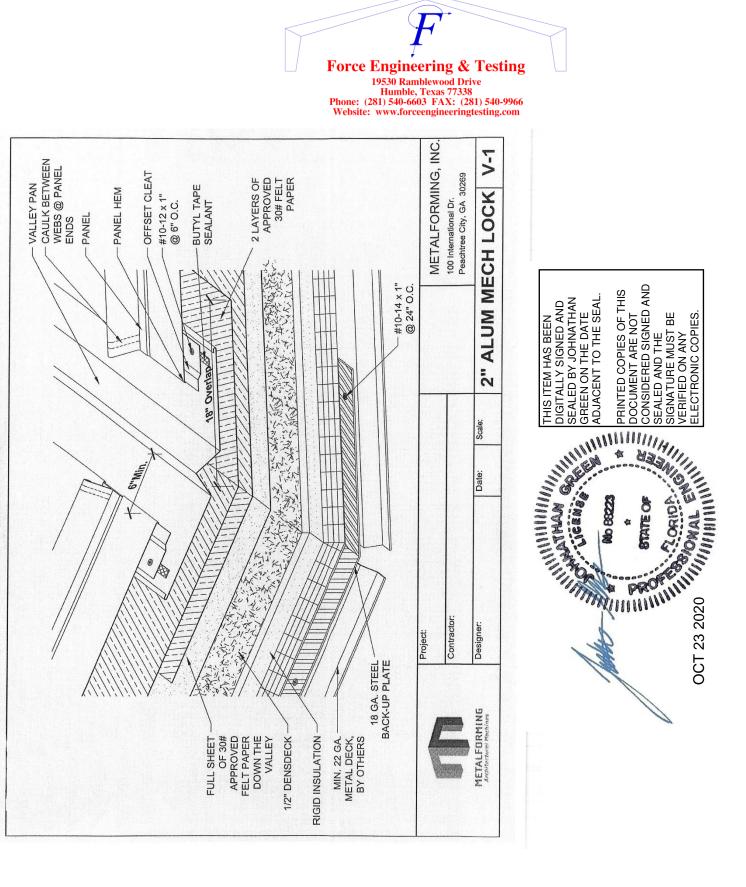


Force Engineering & Testing 19530 Ramblewood Drive Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forceengineeringtesting.com





FL# 4595.4 R5



FL# 4595.4 R5

