

Product Evaluation Report SUNSHINE METAL SUPPLY, INC.

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

Florida Product Approval # 18386.3 R4

Florida Building Code 2023 Per Rule 61G20-3 Method: 1 –D

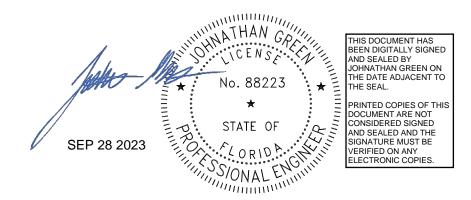
Category: Roofing Subcategory: Metal Roofing Compliance Method: 61G20-3.005(1)(d) HVHZ

> Product Manufacturer: Sunshine Metal Supply, Inc. 719 Cattleman Road Sarasota, Florida 34232

Engineer Evaluator:

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

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			g & Testing				
19530 Ramblewood Drive Humble, Texas 77338							
			X: (281) 540-9966 eringtesting.com				
Compliance Statement:	The product as described in this report has demonstrated compliance with the						
	Florida Building Code 2023, 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 2023 Section 1507.4.3.						
	Yield Strength: N						
	Corrosion Resistance: Panel Material shall comply with Florida Building Code						
	2023, Section 15	07.4.3					
Panel Dimension(s):	Thickness:	0.024"					
	Width:		coverage				
	Rib Height: 1-1/2"						
	Panel Seam: Snap Lock						
Roof Panel Clips:	Product Name: Type: Corrosion Resistance:		1500SNS				
			Fixed, 18 Ga., 3 ½" long				
			Per Florida Building Code 2023 Section 1506.7				
Roof Clip Fastener:	(2) #12-11 Pancake Type A						
	¼" minimum pen						
	Corrosion Resistance: Per Florida Building Code 2023, Section 1517.6.						
Substrate Description:	1) For HVHZ cons	struction,	use 19/32" or greater APA Rated plywood or wood				
	plank. In reroofing applications where the deck is less than 19/32" thick (mi						
	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 2023.						
	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 2023.						
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Allowable Design Uplift Pressures:

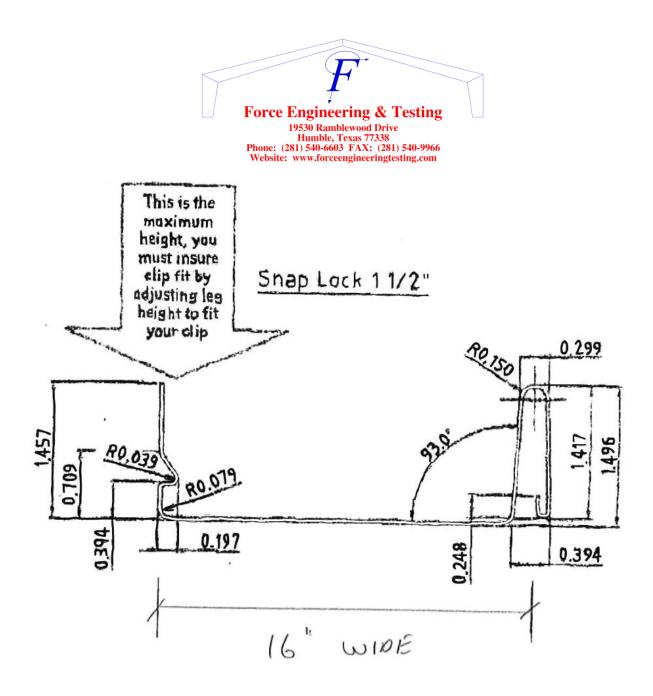
Table "A"							
Maximum Total Uplift Design Pressure:	86.0 psf	99.6 psf	102.3 psf	104.6 psf	108.5 psf	116.0 psf	
Clip Spacing:	24″ O.C.	20″ O.C.	18″ O.C.	16″ O.C.	12" O.C.	6" O.C.	
# Fasteners per Clip:	2	2	2	2	2	2	

*Design Pressure includes a Safety Factor = 2.0.

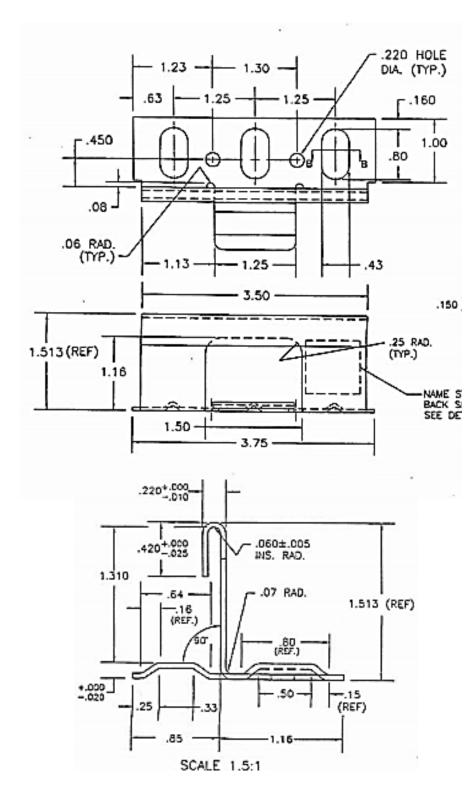
Force Engineering & Testing							
19530 Ramblewood Drive							
Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966							
	Website: www.forceengineeringtesting.com						
Code Compliance:	The product described herein has demonstrated compliance with						
	The Florida Building Code 2023, Section 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 2023, 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 1897-2015 - Uplift Test for Roof Covering Systems 						
	 TAS 100-23 - 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. 72-0108T-07*						
	2. TAS 100-95						
	Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654)						
	Report No. T107-07*						
	3. TAS 110-00: Valspar Fluropon coated metal panel testing						
	A) ASTM G 155 B) ASTM B 117						
	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.						
	The UL 1897-98 test standard is equivalent to the UL 1897-2015 test standard						
	standard. 3. The TAS-100-95 test standard is equivalent to the TAS 100-23 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:	2:12. Minimum Slope shall comply with Florida Building Code 2023, including						
Sections 1515.2.2 and in accordance with Manufacturers recommendations.							

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Installation:	Install per manufacturer's recommended details and RAS 133.
Underlayment:	Per Manufacturer's installation guidelines per Florida Building Code 2023 Section 1518.2.
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 2023 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 2023 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.

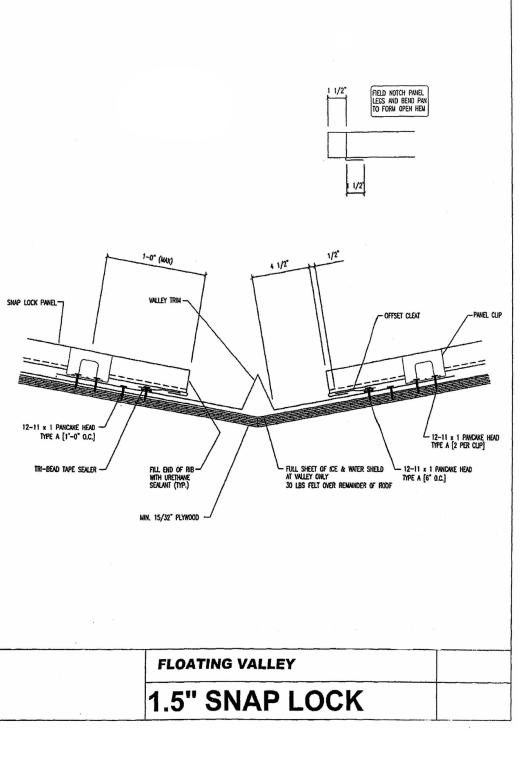


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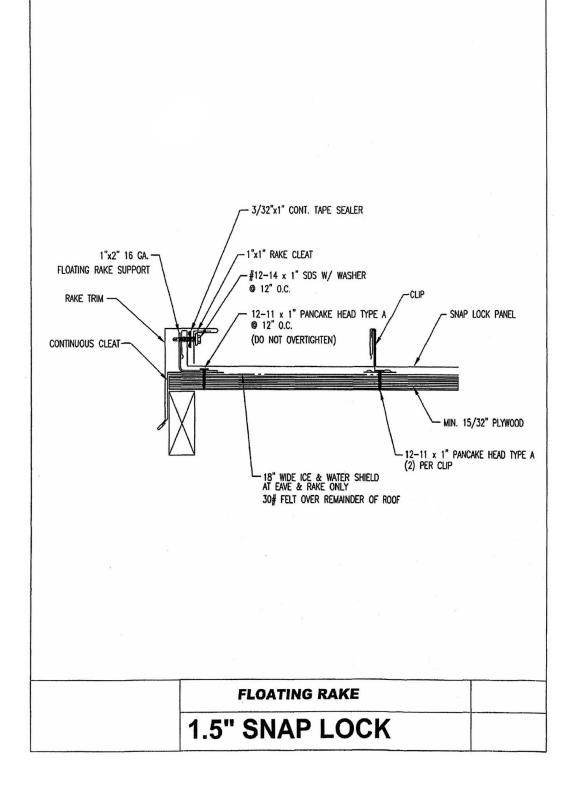


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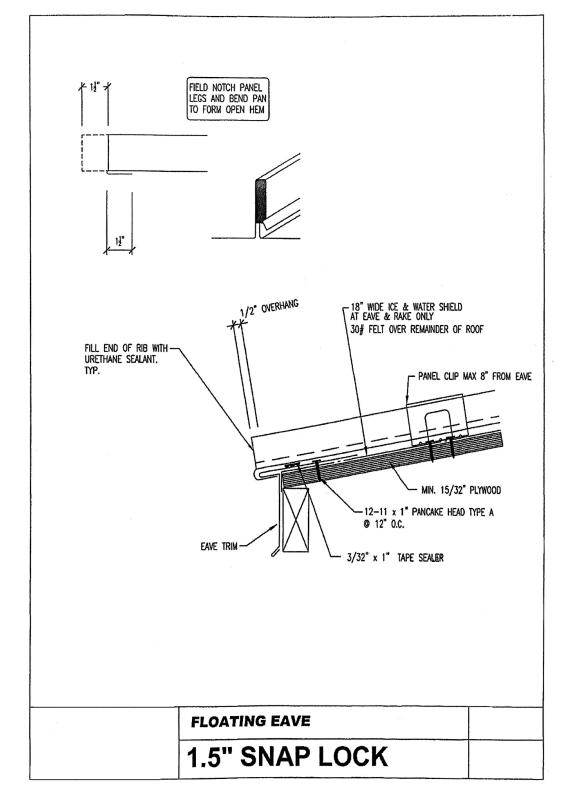
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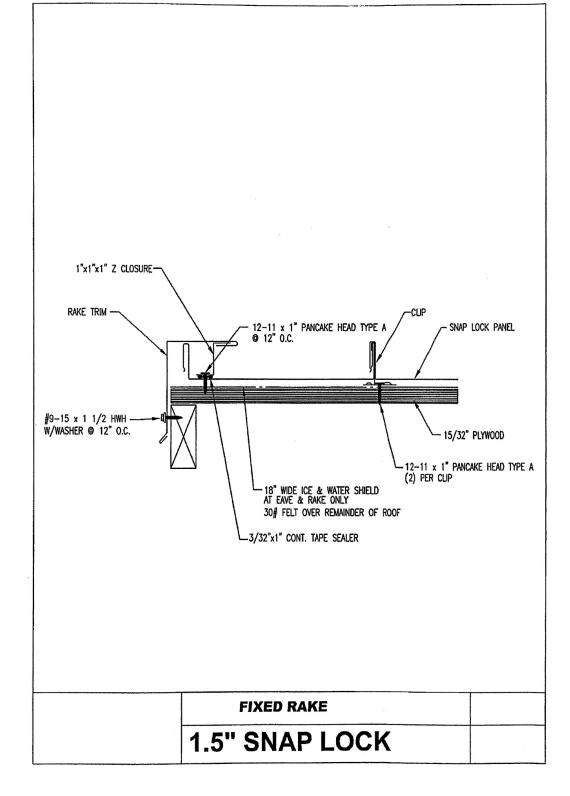


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