

Product Evaluation Report SENTRIGARD METAL ROOFING SYSTEMS

Sentrigard ML 200 24 Ga. 16" Wide Roof Panel over open framing

Florida Product Approval # 9864.1 R6

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

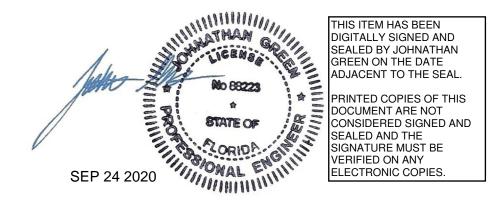
Category: Structural Components Subcategory: Roof Deck Compliance Method: 61G20-3.005(1)(d) NON HVHZ

Product Manufacturer: Sentrigard Metal Roofing Systems Association, Inc., an NB Handy Company 65 10th Street Lynchburg, Virginia 24502

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

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

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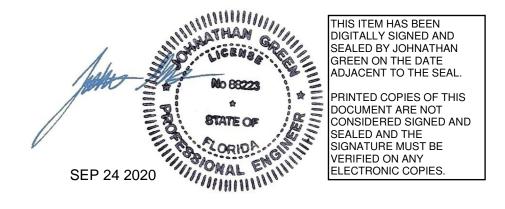


	Force Enginee 19530 Rambl Humble, Phone: (281) 540-660 Website: forceengin	lewood Dr Texas 7733 03, Fax: (28	ive 488 88 81) 540-9966		
Compliance Statement:	The product as described in this report has demonstrated compliance with the Florida Building Code 2020, Sections 1504.3.2, 1504.7.				
Product Description:	Sentrigard ML 200, 2" Mechanical Lock Standing Seam Roof Panel, 24 Ga. Steel, 16" Wide. Structural Application.				
Panel Material/Standards:	Material: 24 Ga. Steel, ASTM A792 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: Width: Rib Height: Panel Seam:	2″	nin. < coverage am, Double Lock w/ mechanical seamer		
Roof Panel Clips:	Product Name: Type: Top: Base: Corrosion Resistar	nce:	2000SNS, Sliding Clip Assembly Two Piece Slider 22 Ga. Galvanized Steel 16 Ga. Galvanized Steel Per Florida Building Code 2020 Section 1506.7		
Clip Fastener:	(2) ¼-14 HWH Self Driller per clip. Corrosion Resistance: Per Florida Building Code 2020 Section 1507.4.4.				
Substrate Description:	Min. 16 Ga. Steel Building Code 202	-	Framing must be designed in accordance w/ Florida		

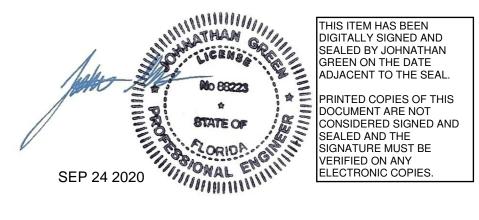
Allowable Design Uplift Pressures:

Table "A"		
Maximum Design Pressure:	-36.0 psf	-83.8 psf
Clip Spacing:	5'-0" O.C.	2'-0" O.C.

*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: forceengineeringtesting.com			
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: ASTM E 1592-05 (2012) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference. FM 4471-92 Foot Traffic Resistance Test. 			
Reference Data:	 ASTM E 1592-01 Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654) Report No. T234-02*, Dated 08/25/2002 FM 4471-95, Section 5.4 Foot Traffic Resistance Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 261-0251T-11A, Dated 11/18/2011 Certificate of Independence By Johnathan Green, P.E. #88223 			
Test Standard Equivalency:	The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2012) test standard.			
	The FM 4471-95 test standard is equivalent to the FM 4471-92 test standard.			



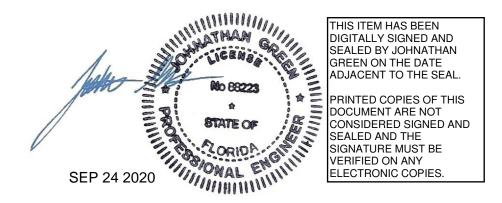


Quality Assurance Entity:

The Report Holder has demonstrated compliance with Florida Building Code and Rule 61G20-3.005 (3) for manufacturing locations audited by an approved quality assurance entity (Keystone Certifications, Inc – FBC OrgID QUA 1824). A listing of manufacturers authorized by the Report Holder to employ the Florida Product Approvals qualified by this report can be found at http://www.keystonecerts.com/qa-assoc/sentrigard or by scanning the following QR Code:



Minimum Slope Range:	Minimum Slope shall comply with Florida Building Code 2020, including Section 1507.4.2 and in accordance with Manufacturers recommendations.
Installation:	Install per manufacturer's recommended details.
Insulation:	Manufacturer's approved product (Optional)
Roof Panel Fire Classification:	Fire classification is not part of this acceptance.
Shear Diaphragm:	Shear diaphragm values are outside the scope of this report.

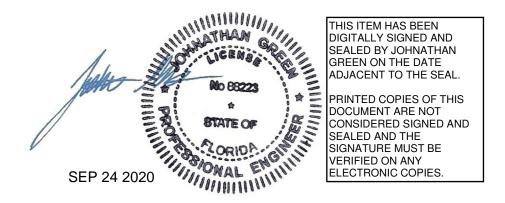




Design Procedure:

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. Support framing must be in compliance with Florida Building Code 2020 Chapter 22 for steel, 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.





SENTRIGARD ML 200 24 GA. STEEL SSR PANEL

