

Product Evaluation Report

SENTRIGARD METAL ROOFING SYSTEMS ASSOCIATION, INC., an NB HANDY COMPANY

Sentrigard ML 150AH 0.032" Alum. 16" Wide Roof Panel over Plywood

Florida Product Approval # 9860.6 R6

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:

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

Engineer Evaluator:

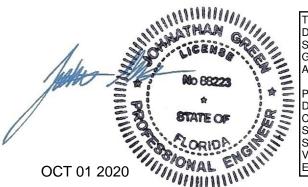
Johnathan Green, P.E. #88223 Florida Evaluation ANE ID: 12901

Validator:

Brian Jaks P.E. #70159

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THIS ITEM HAS BEEN
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Humble, Texas 77338 Phone: (281) 540-6603, Fax: (281) 540-9966 Website: 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: Sentrigard ML 150AH, 1 ½" Mechanical Lock 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

Roof Panel Clip: Product Name: 1500SS Floating Clip

Top: 26 Ga. Stainless Steel
Base: 16 Ga. Galvanized Steel

Corrosion Resistance: Per Florida Building Code 2020 Section 1506.7

Roof Clip Fastener: (2) #14-13 x 1-1/2" DP1 Concealor

1/4" minimum penetration through plywood

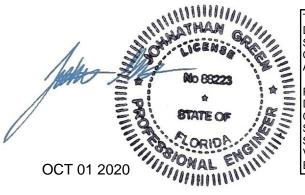
Corrosion Resistance: Per Florida Building Code 2020, Section 1517.6.

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:	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 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. 261-0324T-11A-C
- 2. TAS 100-95

Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654) Report No. T322-11A

- 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. #88223

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 1897-2012 test standard.



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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 Org ID 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



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

or by scanning the following QR Code:

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.

MO 88223

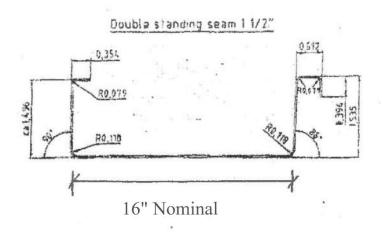
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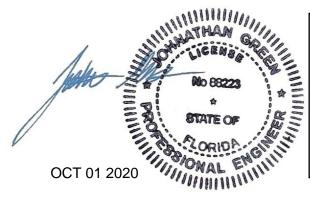
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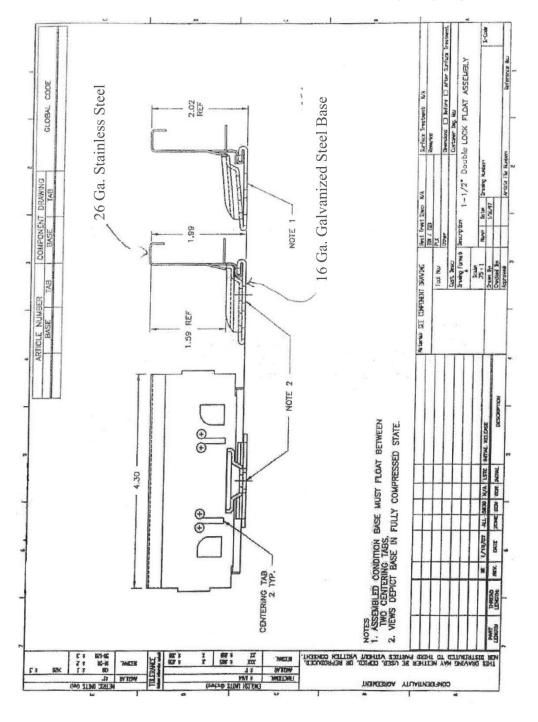


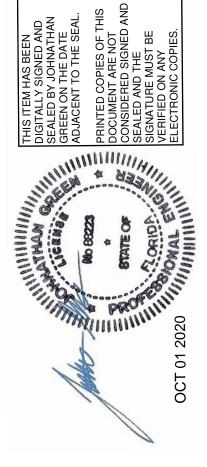




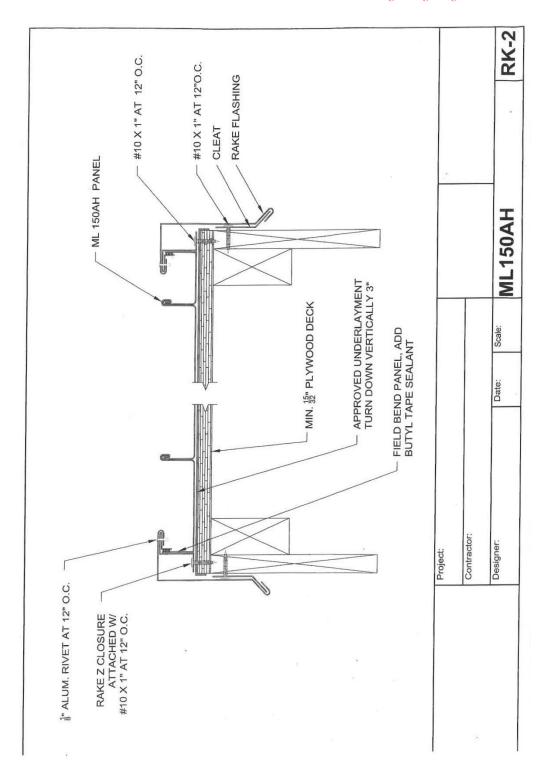
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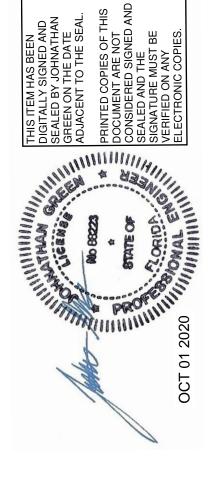




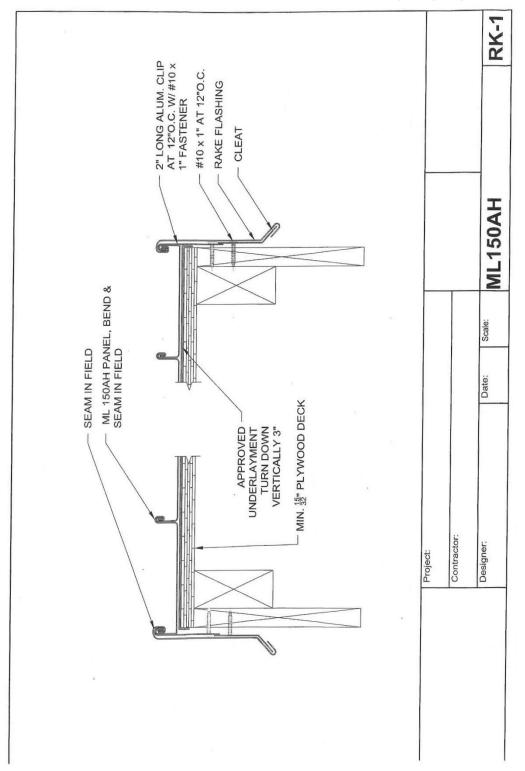


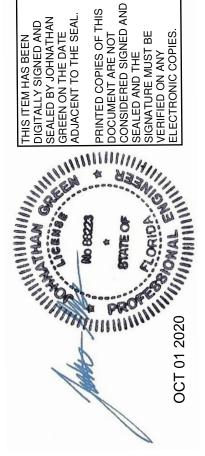




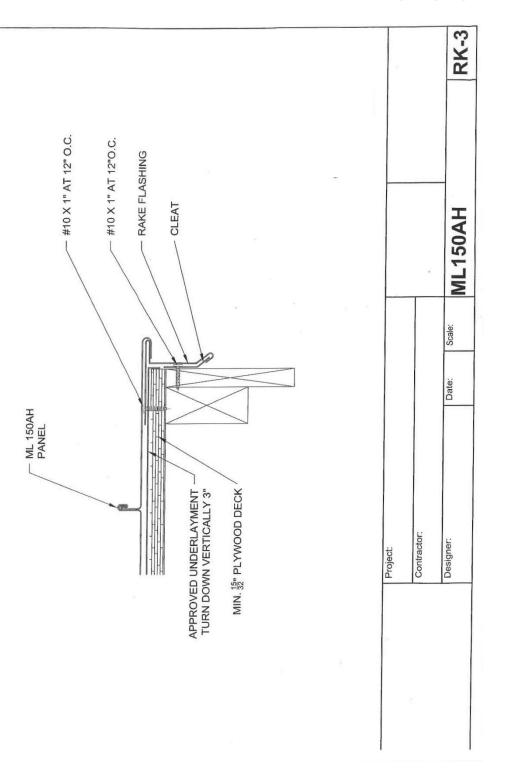


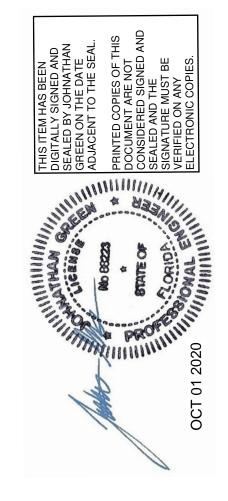




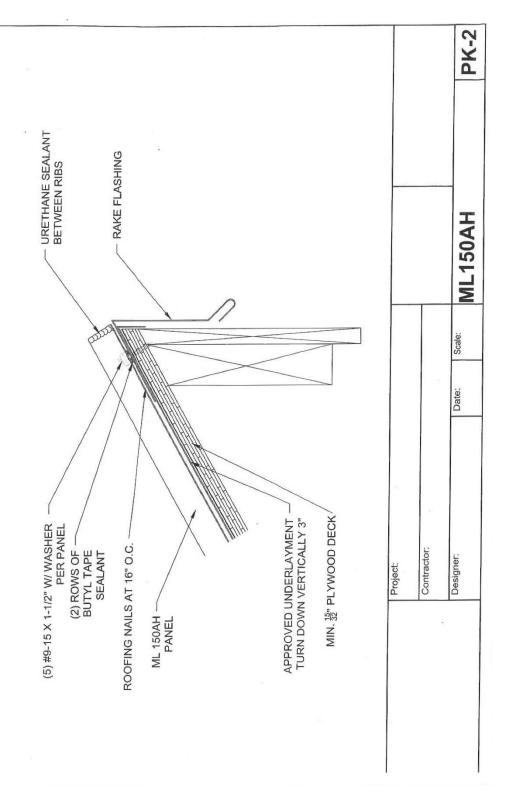


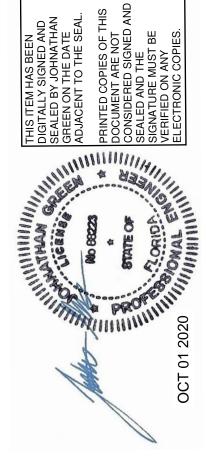












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