

Force Engineering & Testing

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Product Evaluation Report

EUSTIS ROOFING COMPANY, INC.

1" Nailstrip 24 Ga. 16" Coverage Roof Panel over 1x4 Wood Purlins

Florida Product Approval # 5852.2 R5

Florida Building Code 2020

Per Rule 61G20-3

Method: 1 -D

Category: Roofing

Subcategory: Metal Roofing

Compliance Method: 61G20-3.005(1)(d)

NON HVHZ

Product Manufacturer:

15311 Old US Highway 441

Suite A

Tavares FL 32778

Engineer Evaluator:

Johnathan Green, P.E. #88223

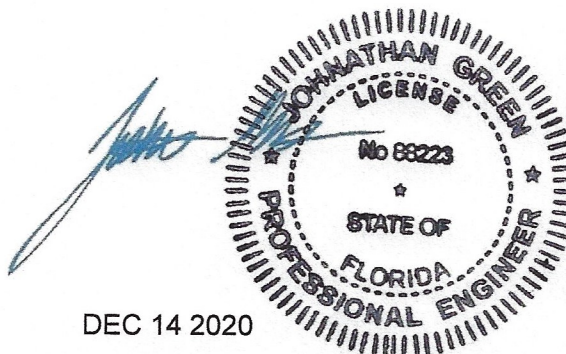
Florida Evaluation ANE ID: 12901

Validator:

Brian Jaks P.E. #70159

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DEC 14 2020

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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.

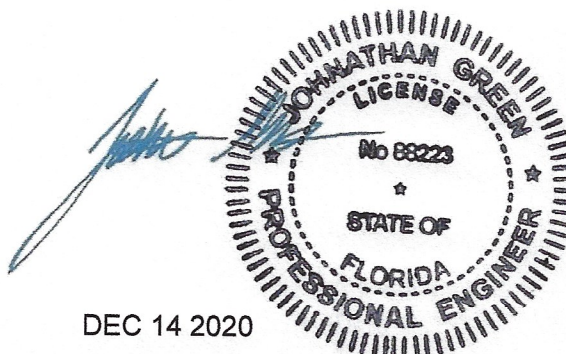
Product Description: 1" Nailstrip Roof Panel, 24 Ga. Steel, 16" Coverage, Roof Panel restrained with fasteners into 1x4 wood purlins over minimum 15/32" Plywood decking. Non-Structural Application.

Panel Material/Standards: Material: 24 Ga. Steel 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: 0.0235"
Width: 16" Maximum Coverage
Female Rib: 1" tall
Male Rib: Rib w/ slotted strip
Panel Seam: Snap Lock
Panel Rollformer: Knudson Mfg, Inc.

Panel Fastener: Through Panel Slot: (1) #10-12 x 1" Pancake Type A
1/4" minimum penetration through 1x4 wood purlin
Corrosion Resistance: Per Florida Building Code 2020, Section 1507.4.4.

Substrate Description: Min. 1x4 No. 2 SYP wood purlins over min. 15/32" thick, APA Rated plywood over supports at maximum 24" O.C. The 1x4 wood purlins shall be fastened to the plywood with minimum 8x2 1/2" Deck screw at a maximum of 6" O.C. Design of 1x4 wood purlins, 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
Panel Slot Fastener Spacing / 1x4 wood purlin Spacing:	12" O.C.

*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.

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:

- UL 580-06 - Test for Uplift Resistance of Roof Assemblies
- UL 1897-2012 - Uplift Test for Roof Covering Systems

Reference Data:

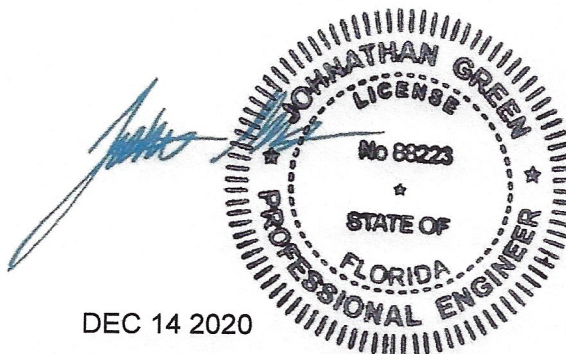
1. UL 580-94 / 1897-98 Uplift Test
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
Report No. 160-0430T-07, Dated 12/17/07
2. Certificate of Independence
By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing
(FBC Organization # ANE ID: 12901)

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 Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.

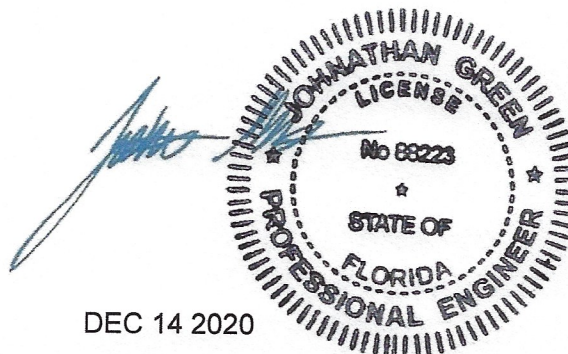


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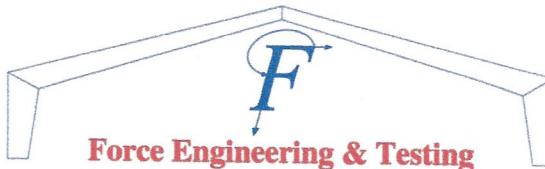


- Minimum Slope Range:** Minimum Slope shall comply with Florida Building Code 2020, including sections 1507.4.2 and in accordance with Manufacturers recommendations.
- Installation:** Install per manufacturer's recommended details.
- Underlayment:** Per Florida Building Code 2020, Section 1507.1 and manufacturer's installation guidelines.
- 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 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.



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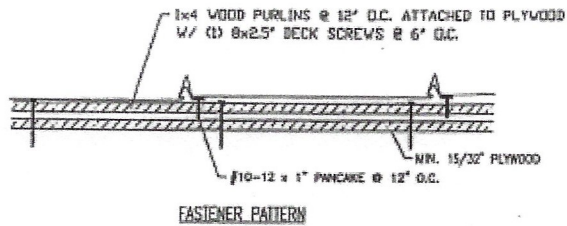
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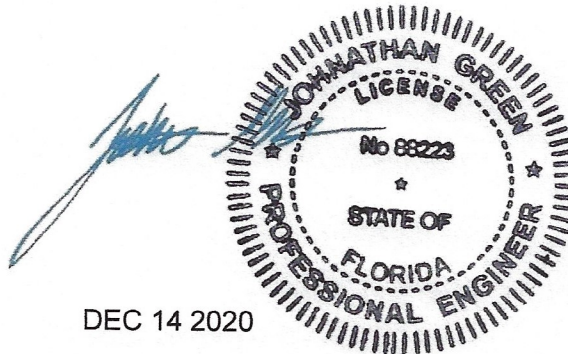
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