Force Engineering & Testing Inc.
19530 Ramblewood Drive
Humble,TX 77338

Product Evaluation Report

GOLDIN METALS, INC.

1" Snap Lock 24 Ga. Roof Panel over Plywood

Florida Product Approval # 28362.4

Florida Building Code 2017
Per Rule 61G20-3
Method: 1 –D

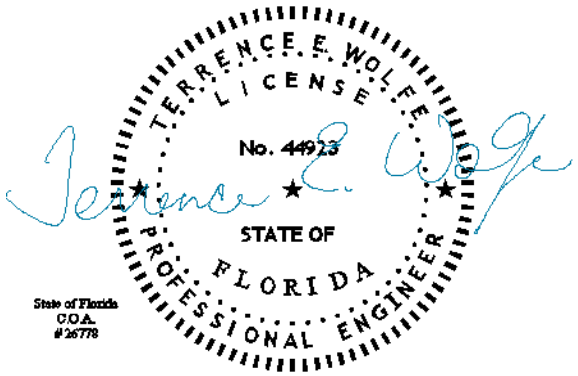
Category: Roofing
Subcategory: Metal Roofing
Compliance Method: 61G20-3.005(1)(d)
HVHZ

Product Manufacturer:
Goldin Metals, Inc.
12440 Seaway Road
Gulfport, MS. 39503

Engineer Evaluator:
Terrence E. Wolfe, P.E. # 44923
Florida Evaluation ANE ID: 1920

Validator:
Brian Jaks P.E. #70159

Contents:



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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1504.3.2, 1518.9, 1523.6.5.2.4.

Product Description: 1" Snap Lock Standing Seam Roof Panel, 24 Ga. Steel, 17" 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 2017, Section 1507.4.3.
Yield Strength: Min. 50.0 ksi
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2017, Section 1507.4.3

Panel Dimension(s):

Thickness:	0.024"
Width:	17" max coverage
Rib Height:	1"
Panel Seam:	Snap Lock

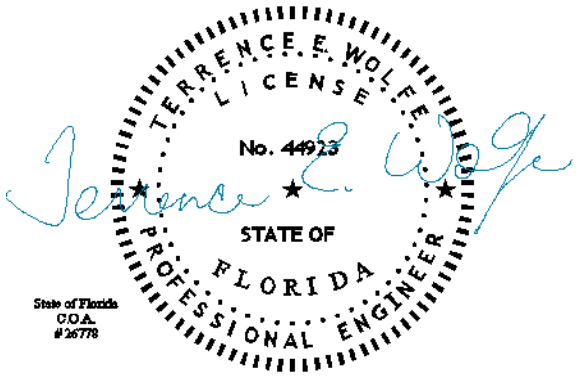
Roof Panel Clips:

Product Name:	1000SNS
Type:	Fixed, 18 Ga., 3 ½" long
Corrosion Resistance:	Per Florida Building Code 2017 Section 1506.7

Roof Clip Fastener: (2) #12-11 x 1" Pancake Type A
¼" minimum penetration through plywood
Corrosion Resistance: Per Florida Building Code 2017, 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 2017.

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 2017.



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Allowable Design Uplift Pressures:

Table "A"

Maximum Total Uplift Design Pressure:	67.3 psf	131.0 psf
Clip Spacing:	24" 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 2017, 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 2017, 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:

1. TAS 125-03: UL 580-94 / 1897-98 Uplift Test
   Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
   Report No. 72-0210T-07*, Dated 07/12/2007
2. TAS 100-95
   Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654)
   Report No. T233-07*, Dated 07/14/2007
3. 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 Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc.
   (FBC Organization # ANE ID: 1920)

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.

TERRENCE E. WOLFE LICENSE No. 44923 STATE OF FLORIDA PROFESSIONAL ENGINEER

State of Florida C.O.A. # 26778

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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 2017, including Sections 1515.2.2 and in accordance with Manufacturers recommendations.

Installation: Install per manufacturer's recommended details and RAS 133.

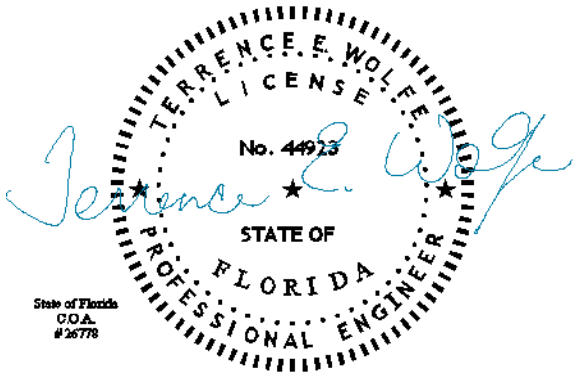
Underlayment: Per Manufacturer's installation guidelines per Florida Building Code 2017, Section 1518.2, 1518.3, 1518.4.

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 2017 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 2017 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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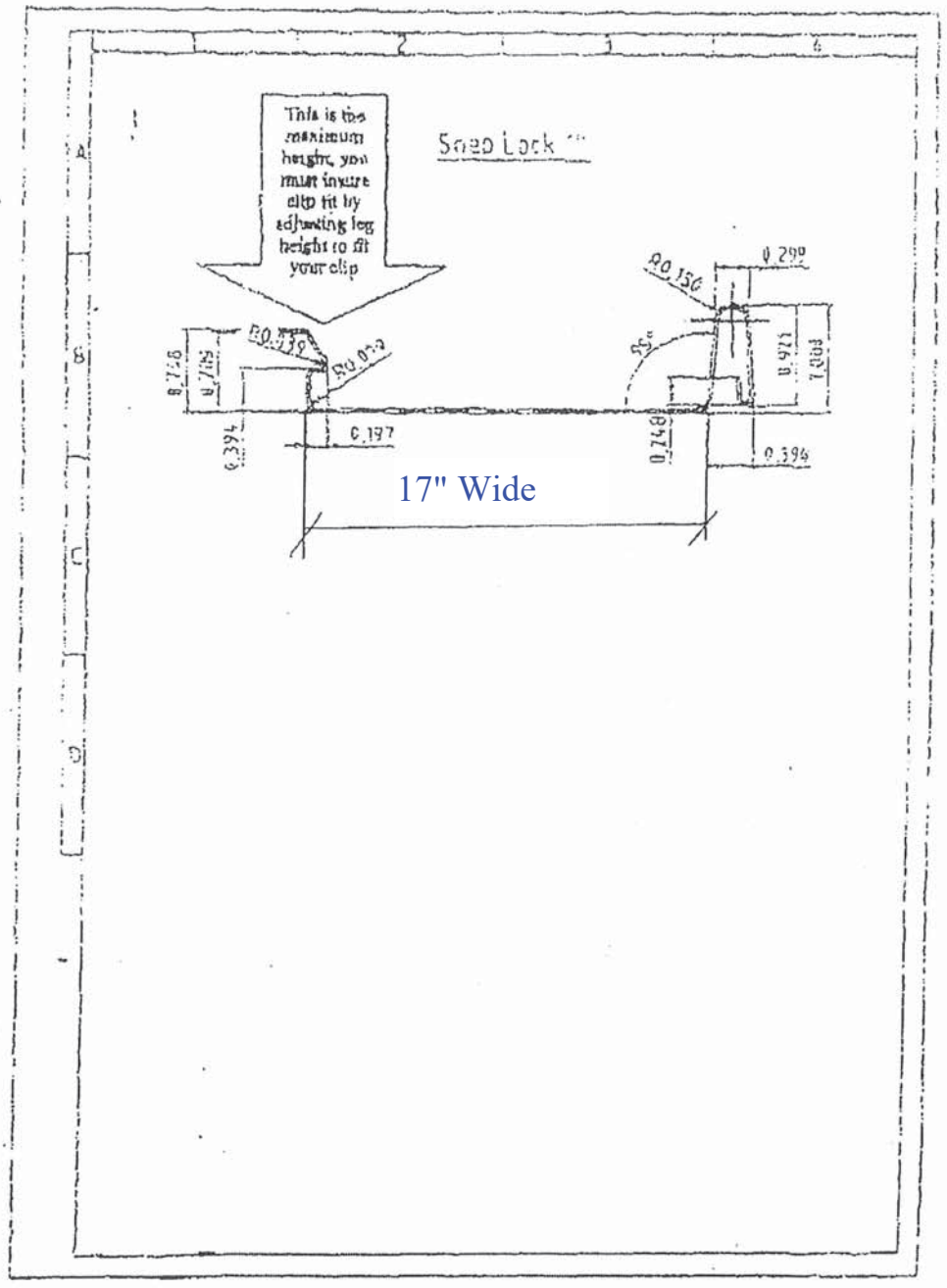

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October 17, 2018

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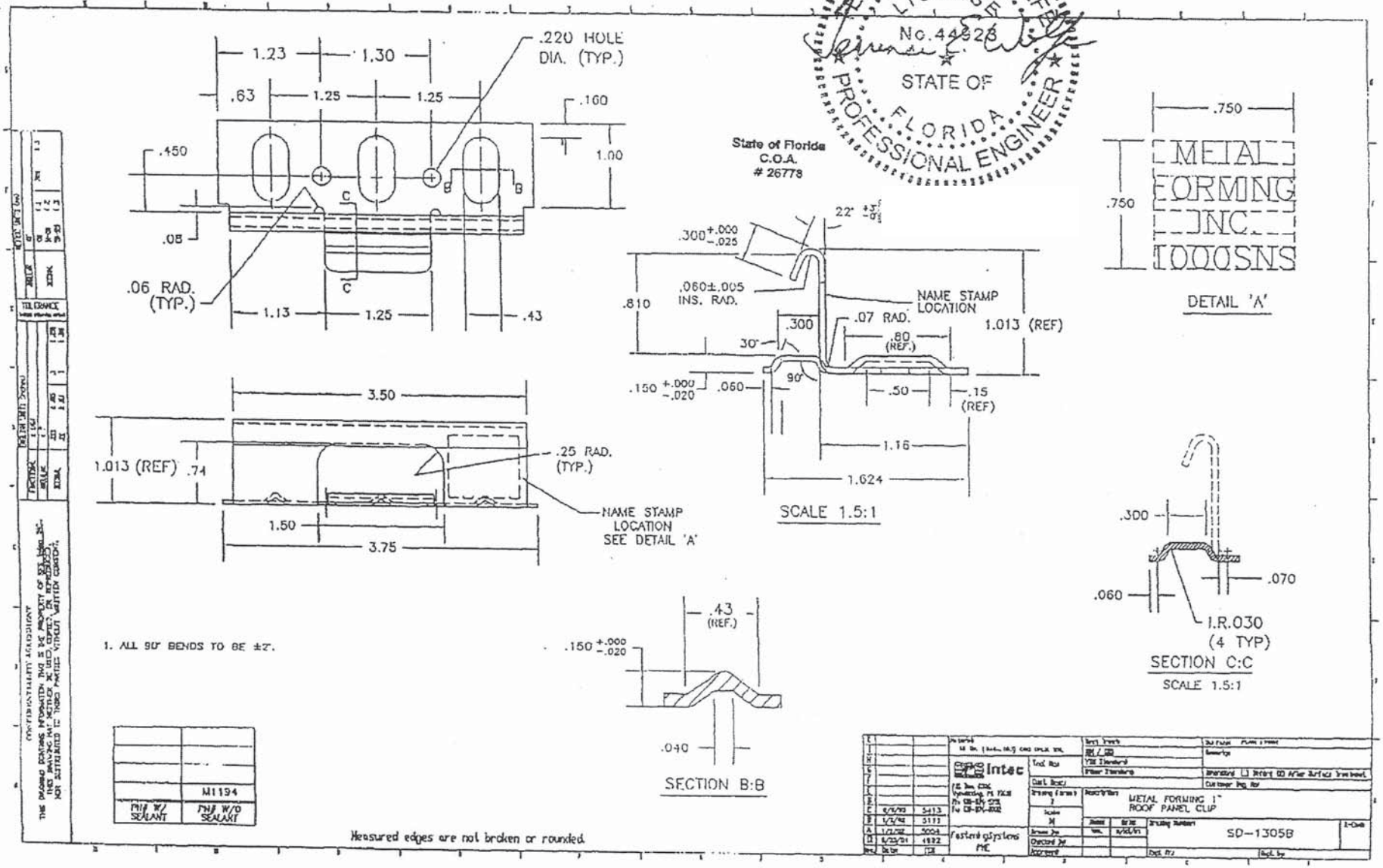

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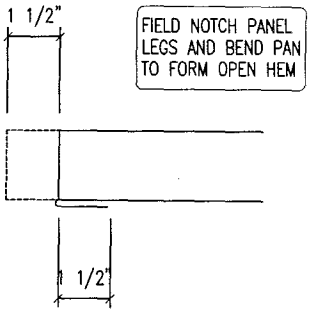

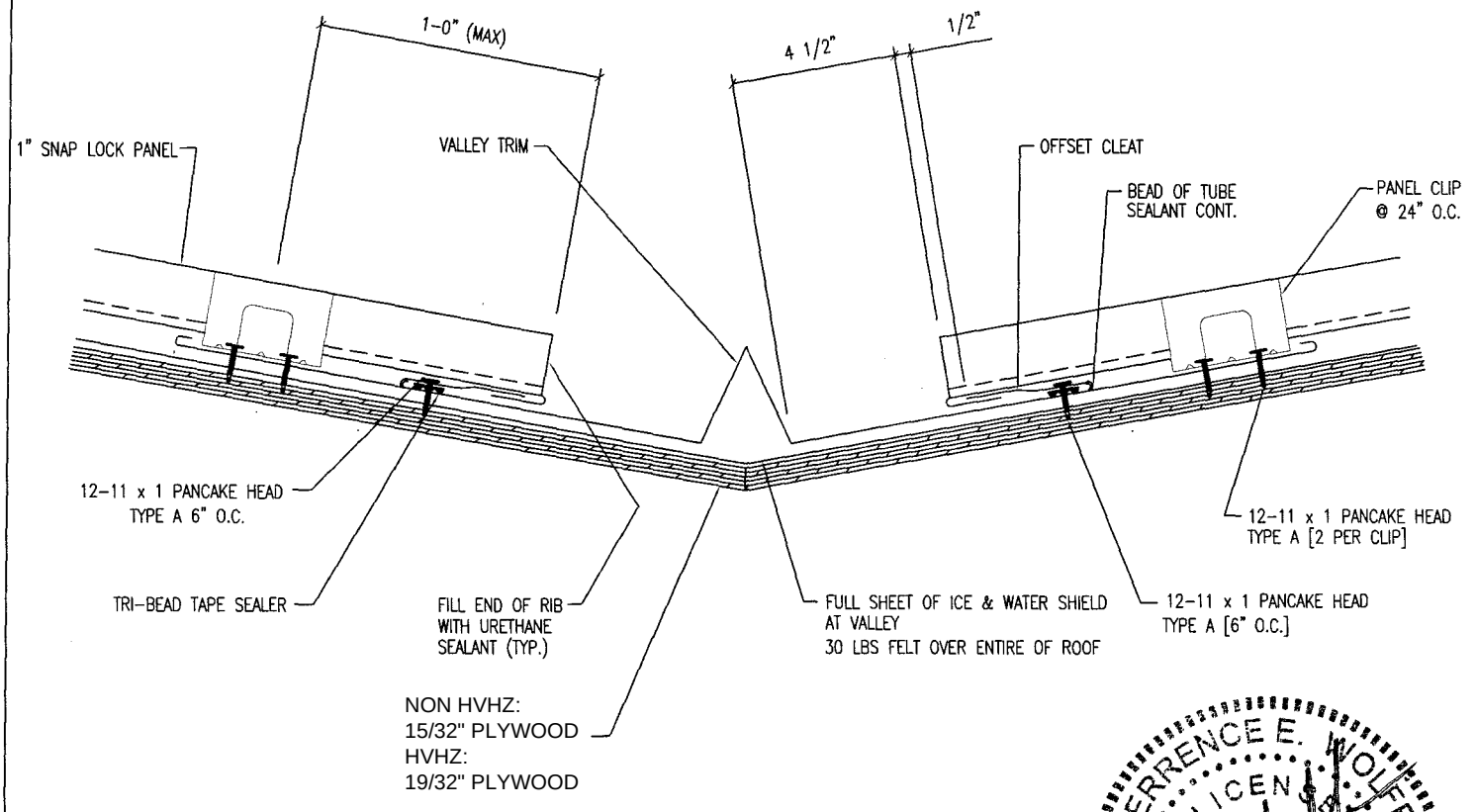

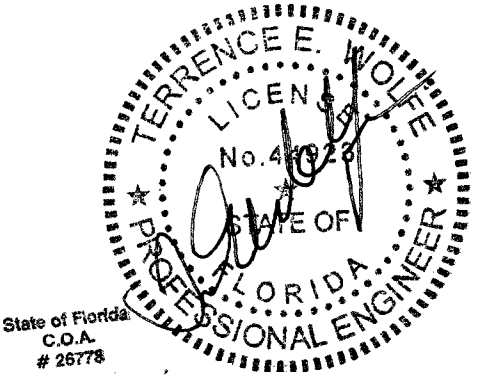

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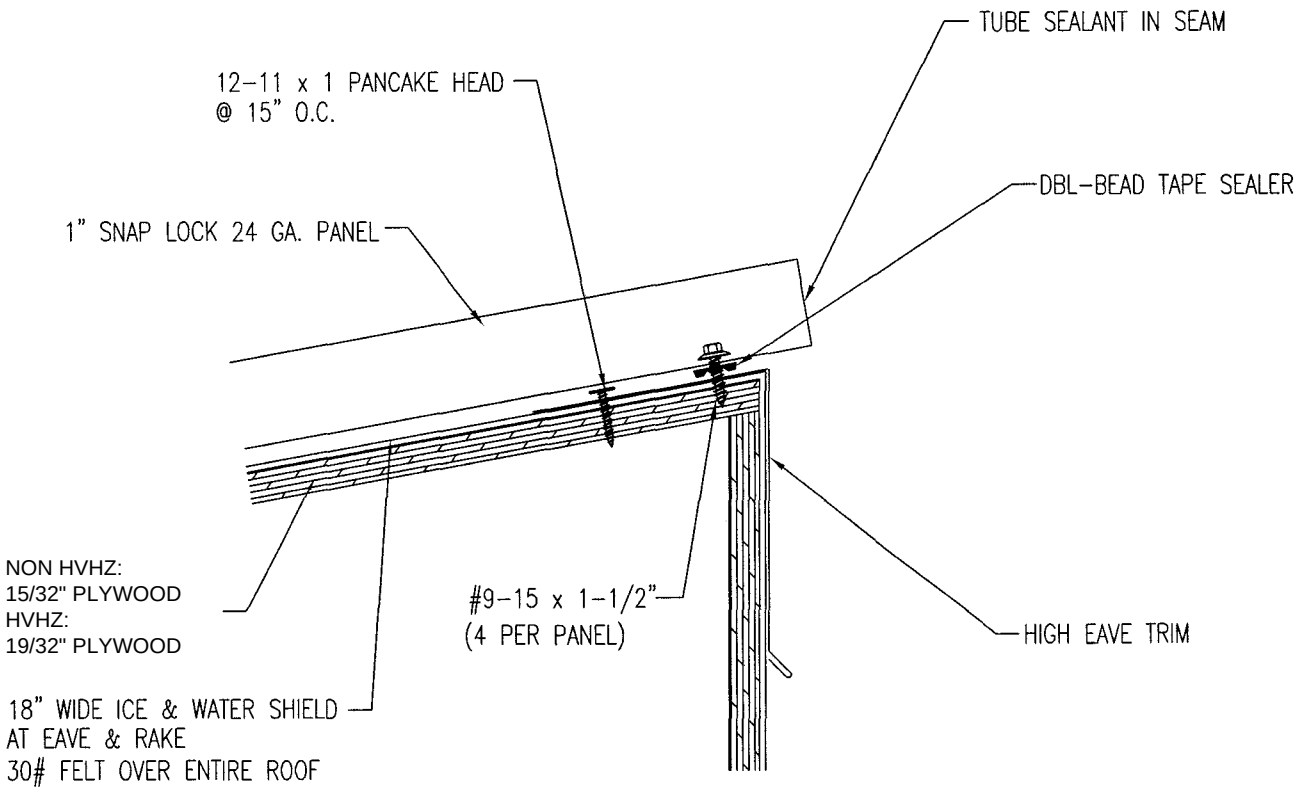
FLOATING VALLEY

October 17, 2018

1" SNAP LOCK



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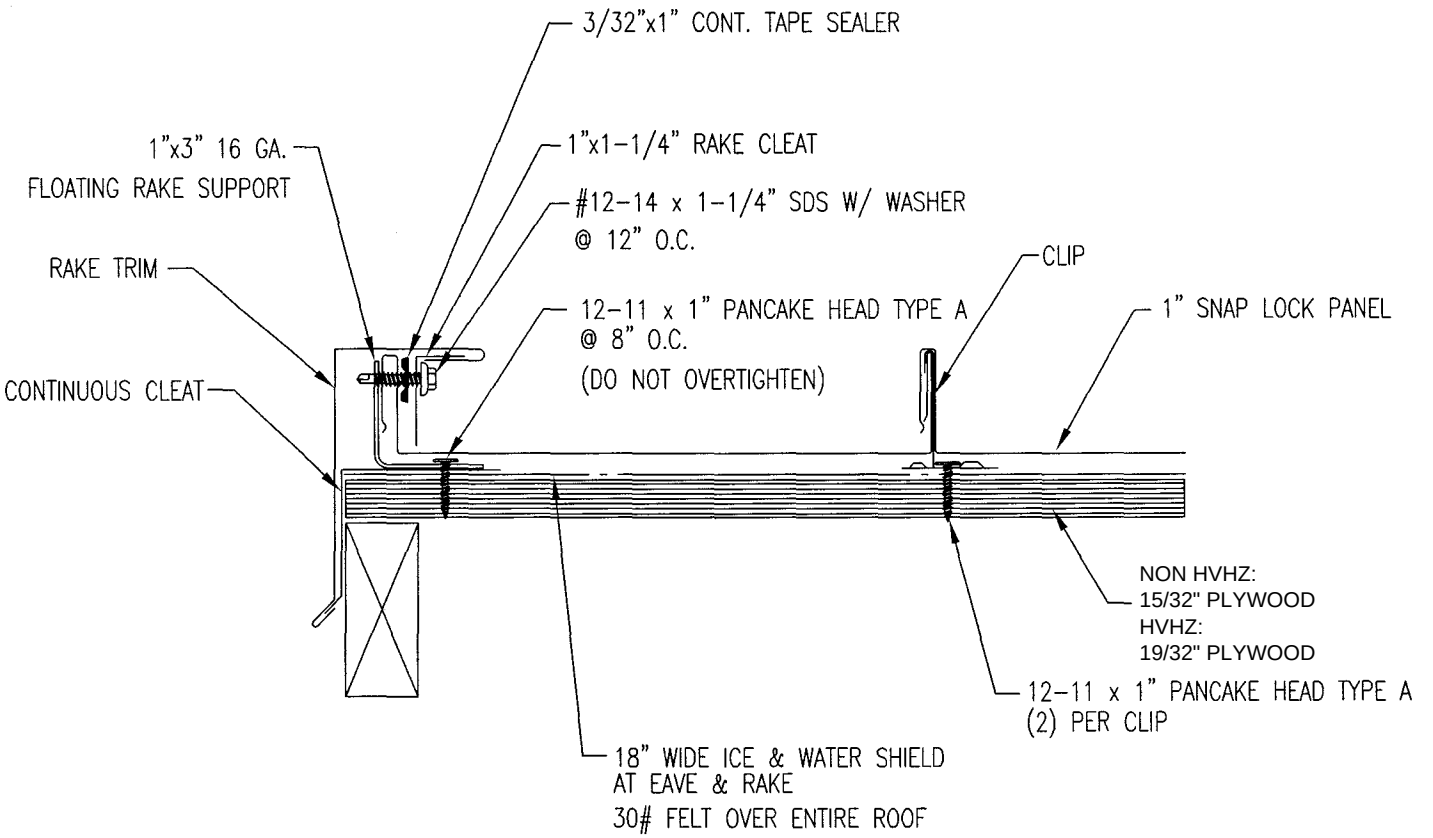
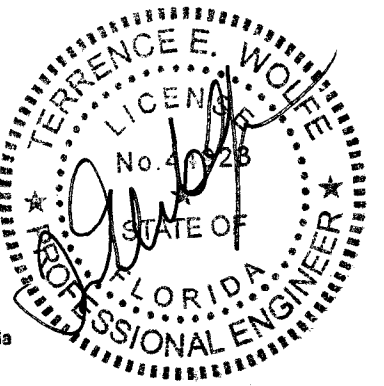
HIGH EAVE DETAIL October 17, 2018

1" SNAP LOCK





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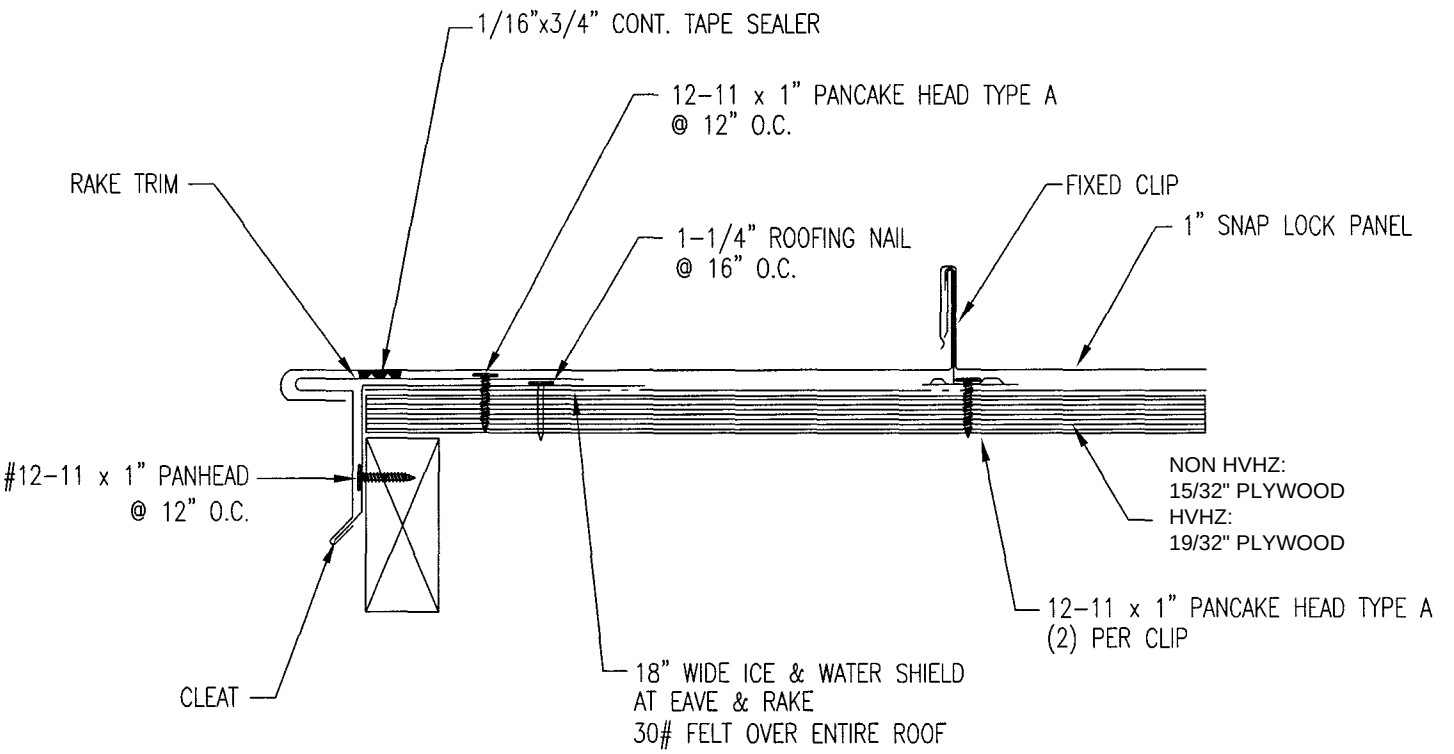
FLOATING RAKE

October 17, 2018

1" SNAP LOCK



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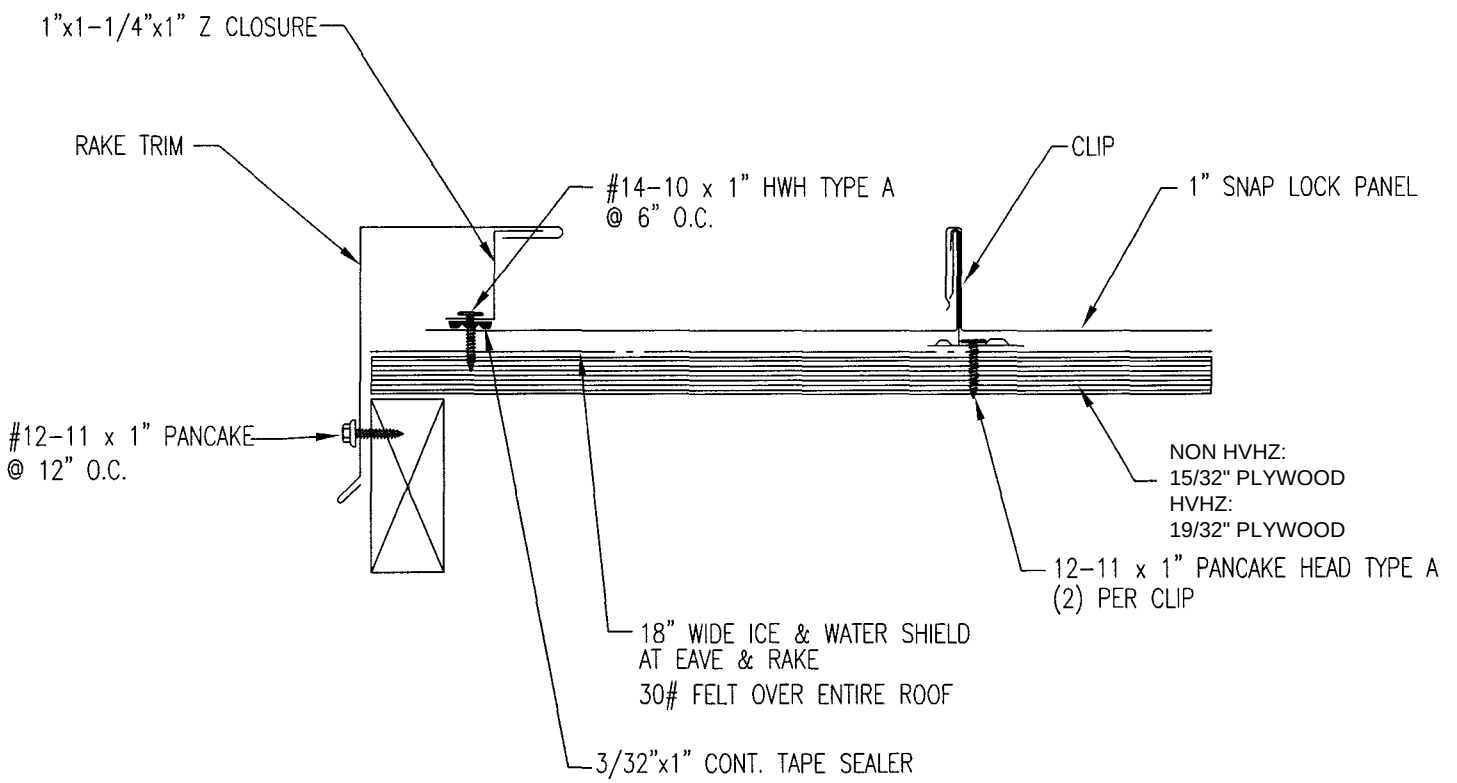
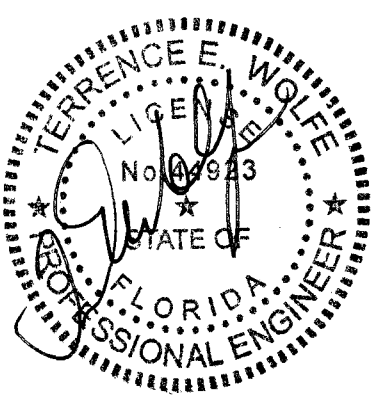
October 17, 2018

FLOATING RAKE

1" SNAP LOCK





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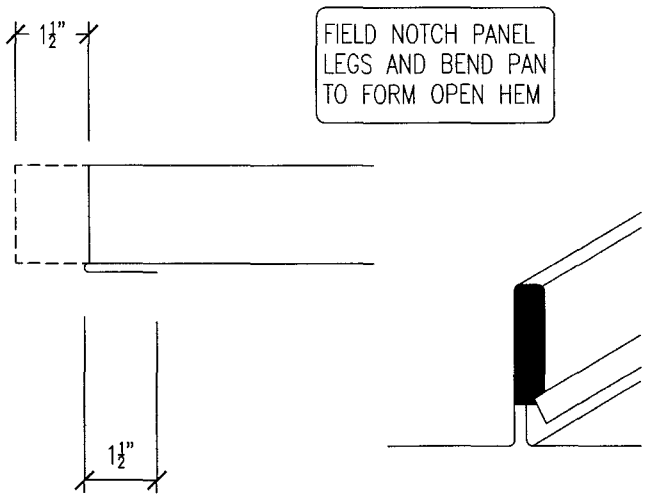
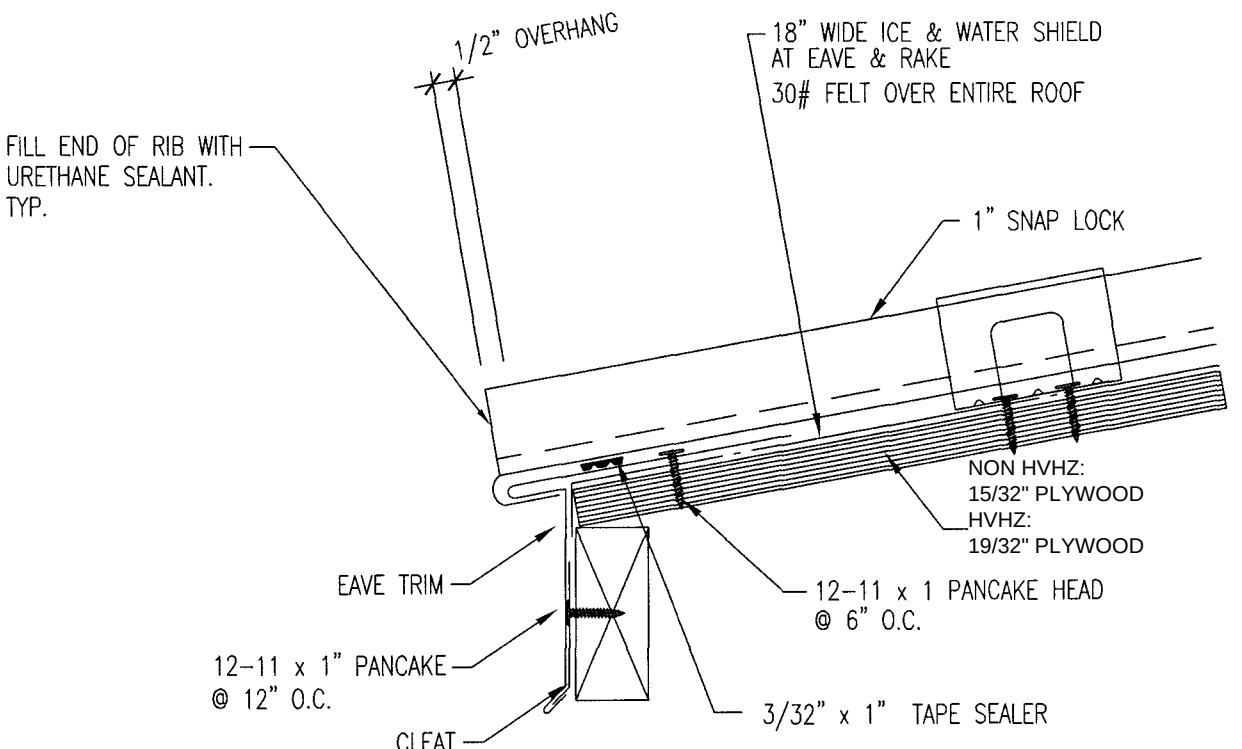
	FIXED RAKE	October 17, 2018
	1" SNAP LOCK	





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FLOATING EAVE

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1" SNAP LOCK