

2820 Nela 2020-03-059

Susan Manchester

Russelot

From: Susan Manchester  
Sent: Friday, April 24, 2020 3:19 PM  
To: Angela Russelot  
Cc: CobiPermits  
Subject: 2820 Nela Ave - boat dock ROOF 2020-03-059 - need app and PA form  
Attachments: COBI Roofing Permit Application.pdf; COBI Product Approval Form.pdf

Hello,

Thank you for sending the shingle info for the boat dock roof. We also need the attached app and PA form completed for the ROOF permit. We need the code for the underlayment filled in as well the metal roof FL 9860.7 product that you just sent us. If you are not using an underlayment – please let me know. Sometimes metal is placed right over existing shingles and underlayment.

Thank you,

Susan Manchester

Permit Administration for the City of Belle Isle  
Building Inspections and  
Code Compliance Department  
407-423-0504 X23309 or 407-581-8161 option permits  
3532 Maggie Blvd, Orlando, FL 32811  
E-mail: [smanchester@universalengineering.com](mailto:smanchester@universalengineering.com)  
Website: [www.universalengineering.com](http://www.universalengineering.com)



replaced finished  
boat dock  
APP (CA form)  
2020-03-07  
038

2820 Nela  
2020-03-059  
CobiPermits

ROOF 2020-03-059



**City of Belle Isle**  
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
 Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

**Product Approval Form**



DATE: 3-17-20

PERMIT # 2020-03-059

PROJECT ADDRESS 2820 Nela Ave, Belle Isle, FL  32809  32812

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72m, please provide the information and approval numbers of the building components listed below if they will be utilized on the building or structure. FL Approved products are listed online at [www.floridabuilding.org](http://www.floridabuilding.org) or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

- NOTE:** The Installation instructions must be posted on-site before your first inspection!!

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
<b>EXTERIOR DOORS</b>				<b>WALL PANELS</b>			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
<b>WINDOWS</b>				<b>ROOFING PRODUCTS</b>			
Single/Dbf Hung				Asphalt Shingles			
Horizontal Slider				Non Struct Metal	Sentrigard	NS10024 Gaover Plywood	FL #9860.7
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Underlayment			
Skylights				Other			
Other							
<b>STRUCTURAL COMPONENTS</b>				<b>OTHER</b>			
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

It is the applicant's responsibility to verify that specific products have been installed in accordance with their limitations and with the minimum required design pressures for the structure. Specific compliance will be verified during field inspections.

**Applicant Signature** Ayala Plessing

**Date** 3-17-20



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**Product Approval**  
USER: Public User



Product Approval Menu > Product or Application Search > Application List > **Application Detail**

FL #	FL9860-R5
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Sentrigard Metal Roofing Systems Association, Inc
Address/Phone/Email	65 10th Street Lynchburg, VA 24502 (434) 847-2444 Ext 1028 christopherpayne@nbhandy.com
Authorized Signature	PAYNE CHRIS christopherpayne@nbhandy.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Metal Roofing
Compliance Method	Evaluation Report from a Florida Registered Architect Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Terrence E. Wolfe
Florida License	PE-44923
Quality Assurance Entity	Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date	08/04/2025
Validated By	Brian Jaks, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	<u>FL9860_R5_COI_Letter of Certification - Secured.</u>
Referenced Standard and Year (of Standard)	<b>Standard</b> TAS 100 TAS 125 UL 1897 UL 580

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

09/18/2017

Date Validated

10/13/2017

Date Pending FBC Approval

10/17/2017

Date Approved

12/12/2017

### Summary of Products

FL #	Model, Number or Name	Description
9860.1	SENTRIGARD ML 200	24 Ga. 2" Mechanical Lock 18 7/8" Wi
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-153.5psf <b>Other:</b> -54.3 psf @ 36" o.c. Clip Spacing. -153.5 psf @ 6" o.c. Clip Spacing. Install per Manufacturer's details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_ML_200_24_Ga._over_S</a> Verified By: Terrence E. Wolfe, P.E. 44 Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_ML_200_24_Ga._over_S</a> <a href="#">Secured.pdf</a> Created by Independent Third Party:
9860.2	Sentrigard ML 200 AH	2" Mechanical Lock 0.032" Aluminum : Deck
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-138.5 <b>Other:</b> -71.0 psf @ 24" o.c. Clip Spacing. -138.5 psf @ 6" o.c. Clip Spacing. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_ML_200AH_Alum_ove</a> <a href="#">Secured.pdf</a> Verified By: Terrence E. Wolfe, P.E. 44 Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_ML_200AH_Alum_ove</a> <a href="#">Secured.pdf</a> Created by Independent Third Party:
9860.3	SENTRIGARD ML100 AH	1.0 Mechanical Lock 0.032" Aluminum :
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-101.0PSF <b>Other:</b> -63.5 psf @ 24" o.c. Clip Spacing. -101.0 psf @ 6" o.c. Clip Spacing. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_ML_100AH_Alum_ove</a> Verified By: TERRENCE WOLFE,P.E. 44 Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_ML_100AH_Alum_ove</a> Created by Independent Third Party:
9860.4	SENTRIGARD ML100 H	1.0 Mechanical Lock, 24 Ga. 16 1/2" V
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-138.5PSF <b>Other:</b> -71.0 psf @ 24" o.c. Clip Spacing. -138.5 psf @ 6" o.c. Clip Spacing. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_ML_100H_24_Ga._ove</a> Verified By: TERRENCE E. WOLFE, P.E Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_ML_100H_24_Ga._ove</a> Created by Independent Third Party:

9860.5	SENTRIGARD ML150 H	1.5 Mechanical Lock, 24 Ga. Steel, 16"
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-123.5PSF <b>Other:</b> -123.5 psf @ 6" o.c. Clip Spacing. -59.75 psf @ 24" o.c. Clip Spacing. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_ML_150H_24_Ga._over_Secured.pdf</a> Verified By: TERRENCE E. WOLFE, P.E. Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_ML_150H_24_Ga._over_Secured.pdf</a> Created by Independent Third Party:
9860.6	SENTRIGARD ML150AH	1.5 Mechanical Lock 0.032" Aluminum
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-93.5psf <b>Other:</b> -78.5 psf @ 18" o.c. Clip Spacing. -93.5 psf @ 6" o.c. Clip Spacing. Install per Manufacturer's Details. For use in HVHZ Zones		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_ML_150AH_Aluminum_Secured.pdf</a> Verified By: Terrence E. Wolfe, P.E. Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_ML_150AH_Aluminum_Secured.pdf</a> Created by Independent Third Party:
9860.7	SENTRIGARD NS 100	1.0 Nail Strip, 24 Ga. Steel, 16" Wide
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-153.5PSF <b>Other:</b> -153.5 psf @ 6-3/4" o.c. Fastener Spacing in slot and 12" o.c. Fastener Spacing in pan. -101.0 psf @ 6-3/4" o.c. Fastener Spacing in pan. -59.75 psf @ 16 o.c. Fastener Spacing in slot. Install per Manufacturer's Details. Not for use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_NS_100_24_Ga._over_Pl_Secured.pdf</a> Verified By: Terrence E. Wolfe, P.E. Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_NS_100_24_Ga._over_Pl_Secured.pdf</a> Created by Independent Third Party:
9860.8	SENTRIGARD NS150 H	1.5 Nail Strip , 24 Ga., 15 1/2" Wide o
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-116 PSF <b>Other:</b> -116.0 psf @ 6-1/2" o.c. Fastener Spacing in slot and 12" o.c. Fastener Spacing in pan -78.5 psf @ 11" o.c. Fastener Spacing in slot. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_NS_150H_24_Ga._over_Secured.pdf</a> Verified By: TERRENCE E WOLFE,P.E. Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_NS_150H_24_Ga._over_Secured.pdf</a> Created by Independent Third Party:
9860.9	SENTRIGARD SL 175H	1.75 Snap Lock 17 3/4" Wide over 22
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-108.5psf <b>Other:</b> -71.0 psf @ 24" o.c. Clip Spacing. -108.5 psf @ 6" o.c. Clip Spacing.. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_SL_175H_24_Ga._over_Secured.pdf</a> Verified By: Terrence E. Wolfe, P.E. Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_SL_175H_24_Ga._over_Secured.pdf</a> Created by Independent Third Party:
9860.10	SENTRIGARD SL100 H	1.0 Snap Lock, 24 Ga. Steel, 17" Wide
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-131PSF <b>Other:</b> -67.3 psf @ 24" o.c. Clip Spacing. -131.0 psf @ 6" o.c. Clip Spacing. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_SL_100H_24_Ga._over_Secured.pdf</a> Verified By: TERRENC E. WOLFE,P.E. Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_SL_100H_24_Ga._over_Secured.pdf</a> Created by Independent Third Party:

9860.11	SENTRIGARD SL150 H	1.5 Snap Lock, 24 Ga. 16" Wide over l
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-108.5PSF <b>Other:</b> -108.5 psf @12" o.c. Clip spacing. -86.0 psf @ 24" o.c. Clip Spacing. -116.0 psf @ 6" o.c. Clip Spacing. Install per Manufacturer's Details. For use in HVHZ Zones.		<b>Installation Instructions</b> <a href="#">FL9860_R5_II_SL_150H_24_Ga._over_I</a> Verified By: TERRENCE E. WOLFE,P.E. Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL9860_R5_AE_SL_150H_24_Ga._over_I</a> Created by Independent Third Party:

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**Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824**

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**Product Approval Accepts:**



Credit Card  
**Safe**

SCURRYMETRICS



**Product Evaluation Report**  
**SENTRIGARD METAL ROOFING SYSTEMS ASSOCIATION, INC.,**  
**an NB HANDY COMPANY**

***Sentrigard NS 100, 24 Ga. 16" Wide Roof Panel over 15/32" Plywood***

**Florida Product Approval # 9860.7 R5**

Florida Building Code 2017

Per Rule 61G20-3

Method: 1 -D

Category: Roofing

Subcategory: Metal Roofing

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:**

**Terrence E. Wolfe, P.E. # 44923**

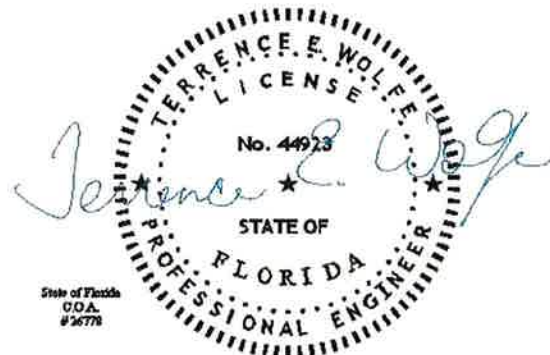
**Florida Evaluation ANE ID: 1920**

**Validator:**

**Brian Jaks P.E. #70159**

**Contents:**

**Evaluation Report    Pages 1 - 4**





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

**Product Description:** Sentrigard NS 100, 1" Nailstrip Roof Panel, 24 Ga. Steel, 16" Wide, Roof Panel attaching to 15/32" APA Plywood decking. Non-structural Application.

**Panel Material/Standards:** Material: 24 Ga. Steel 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: 16" max coverage  
Female Rib: 1" tall  
Male Rib: ¾" tall rib w/ slotted strip.  
Panel Seam: Snap Lock

**Panel Fastener:** Through Panel Slot: (1) #10-13 x 1" GP Pancake Type A  
In Pan of Panel: (2) #10-11 x 1" Eclipse Head Type A  
¼" minimum penetration through plywood  
Corrosion Resistance: Per Florida Building Code 2017, Section 1507.4.4.

**Substrate Description:** 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.

**Allowable Design Uplift Pressures:**

Table "A"

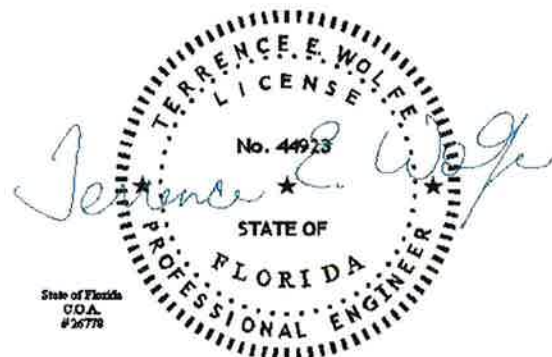
<b>Maximum Total Uplift Design Pressure:</b>	59.75 psf	101.0 psf	153.5 psf
<b>Panel Slot Fastener Spacing:</b>	16" O.C.	6 ¾" O.C.	6 ¾" O.C.
<b>Panel Pan Fastener Spacing:</b>	NA	NA	12" O.C.

\*Design Pressure includes a Safety Factor = 2.0.





- Code Compliance:** The product described herein has demonstrated compliance with The Florida Building Code 2017, 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 2017, 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
  - TAS 100-95 - Test Procedure for Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems
- Reference Data:**
1. UL 580-94 / 1897-98 Uplift Test  
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)  
Report No. 72-0314T-06\*, Dated 03/24/2007
  2. TAS 100-95  
Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654)  
Report No. T158-07\*, Dated 04/05/2007
  3. Certificate of Independence  
By Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc.  
(FBC Organization # ANE ID: 1920)
- Test Standard Equivalency:**
1. The UL 580-94 test standard is equivalent to the UL 580-06 test standard.
  2. The UL 1897-98 test standard is equivalent to the UL 1897-2012 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:





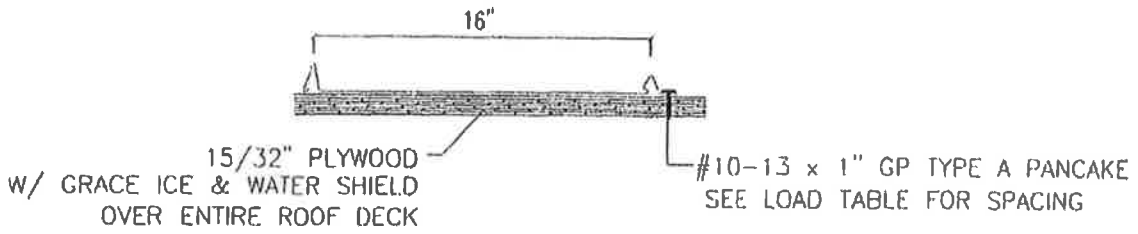
- Minimum Slope Range:** Minimum Slope shall comply with Florida Building Code 2017, including Sections 1507.4.2 and in accordance with Manufacturers recommendations.
- Installation:** Install per manufacturer's recommended details.
- Underlayment:** Self-adhered roofing underlayment minimum 40 mil thickness. Per Florida Building Code 2017 Section 1507.1.1 and manufacturer's installation guidelines per
- 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 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.

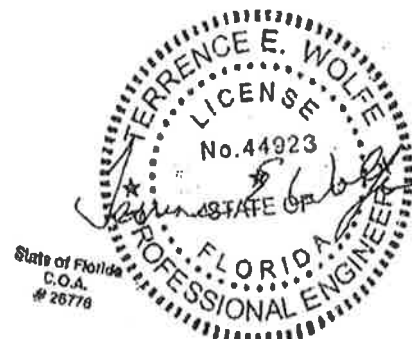
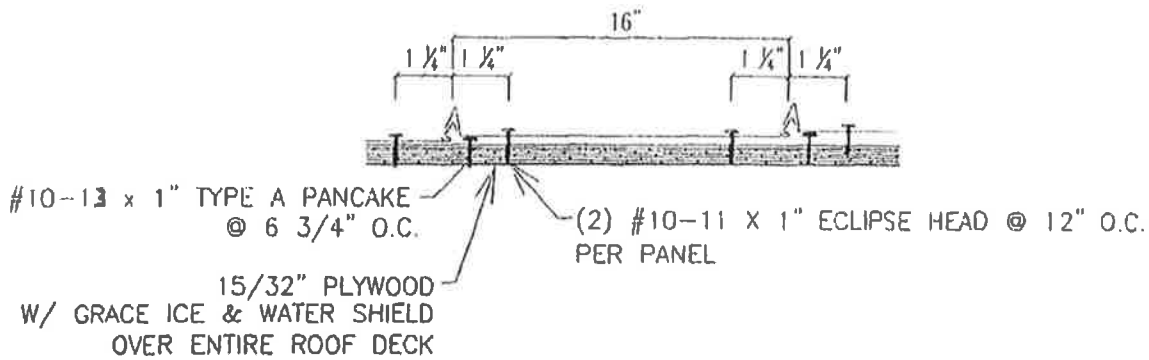




TYPE 1 FASTENER PATTERN (SEE LOAD TABLE)



TYPE 2 FASTENER PATTERN (SEE LOAD TABLE)



September 15, 2017

# FIELD HEMMED PANEL END

CUT FEMALE END  
BACK 1"

1. PANELS REQUIRING FIELD HEMMED ENDS SHOULD BE FABRICATED 1" LONGER THAN THE FINISHED PANEL LENGTH. VALLEY CONDITIONS MUST BE FIELD CUT TO THE APPROPRIATE ANGLE

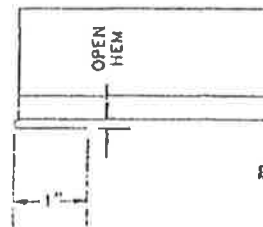
2. CUT BACK PANEL JOINTS 1"

CUT MALE END  
BACK 1"

3. PLACE PROTRUDING PAN INTO THE PANEL HEMMING TOOL. THE FRONT EDGE OF THE TOOL MUST REST AGAINST THE NOTCHED JOINT LEGS ON BOTH SIDES.
4. WHILE MAINTAINING PRESSURE AGAINST THE PANEL JOINTS, ROTATE THE HEMMING TOOL AS CLOSE TO 180° AS POSSIBLE.

PANEL HEMMING TOOL

5. INSPECT COMPLETED HEM TO INSURE THAT THE HEM IS OPENED AND CAPABLE OF RECEIVING THE CLEAT (SEE ERECTION DETAILS).

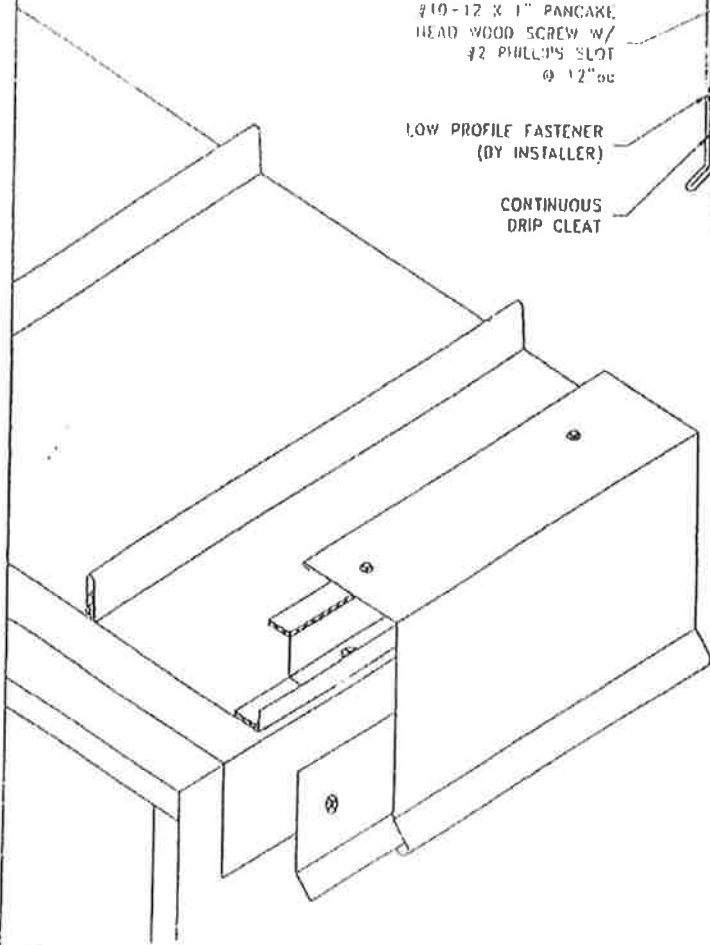
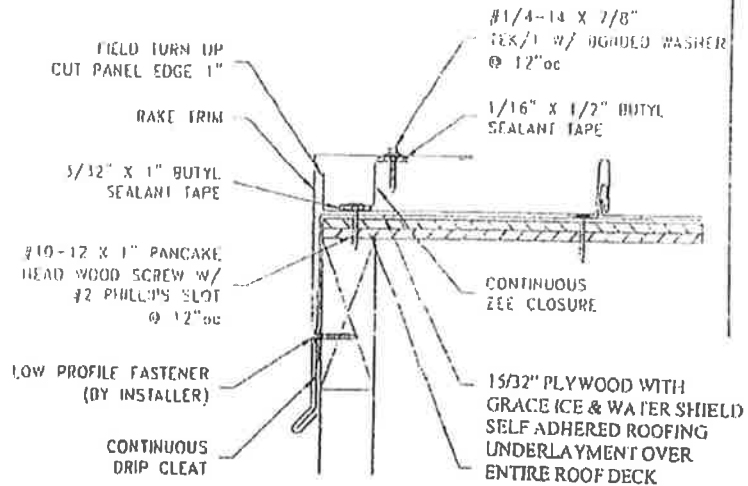


State of Florida  
C.D.A.  
# 28778

September 15, 2017

## HIGH PROFILE RAKE

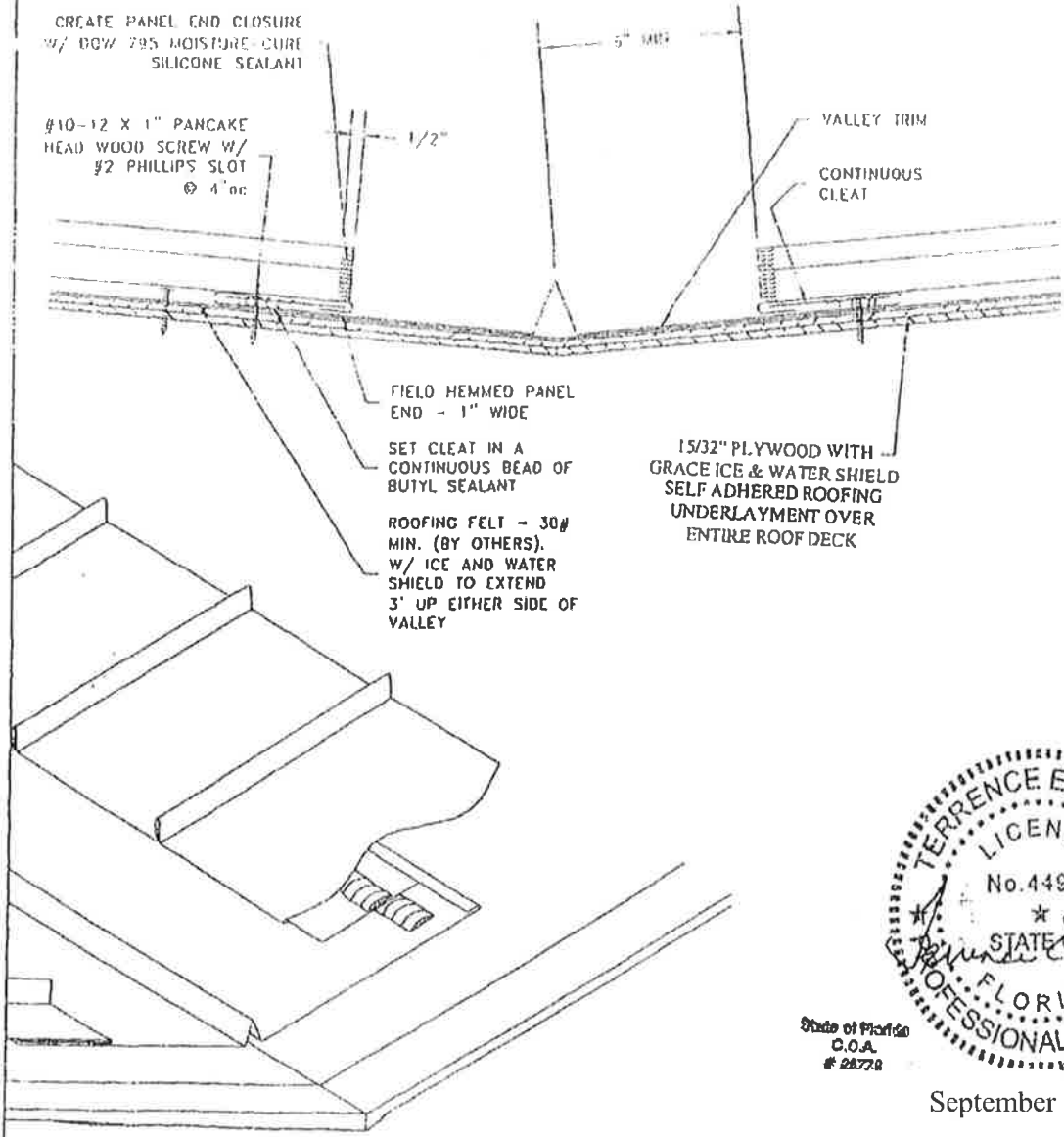
- 1.) Turn cut edge of panel up 1".
- 2.) Determine location off zee closure. Apply sealant tape to flat of panel.
- 3.) Place closure on top of sealant tape. Secure through tape and panel with #10-12 x 1" HWH wood screws @ 12"oc.
- 4.) Apply a continuous strip of sealant tape to the top of the zee closure. Seal between ends of tape with butyl sealant.
- 5.) Install panels so that the the field cut end is engaged into the open hem of the receiver trim, and fully embedded into the urethane sealant.
- 6.) Install the rake trim. Secure to closure zee with 1/4-14 x 7/8" HWH Tek/1 fasteners at 12"oc.



September 15, 2017

## VALLEY

- 1.) Temporarily attach valley trim at ends w/ #10-12 x 1" pancake head wood screws.
- 2.) Apply butyl sealant across top of valley trim as shown.
- 3.) Attach cleat through sealant w/ #10-12 x 1" pancake head wood screws @ 4"oc.
- 4.) Apply a second bead of butyl sealant across the top of the cleat, and over the fastener heads.
- 5.) Install panels so that the cleat is engaged into the field applied hem.

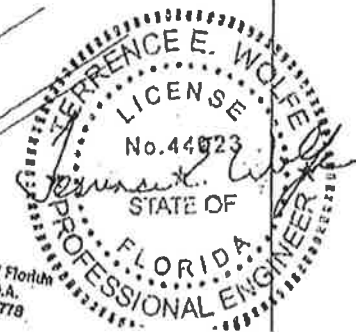
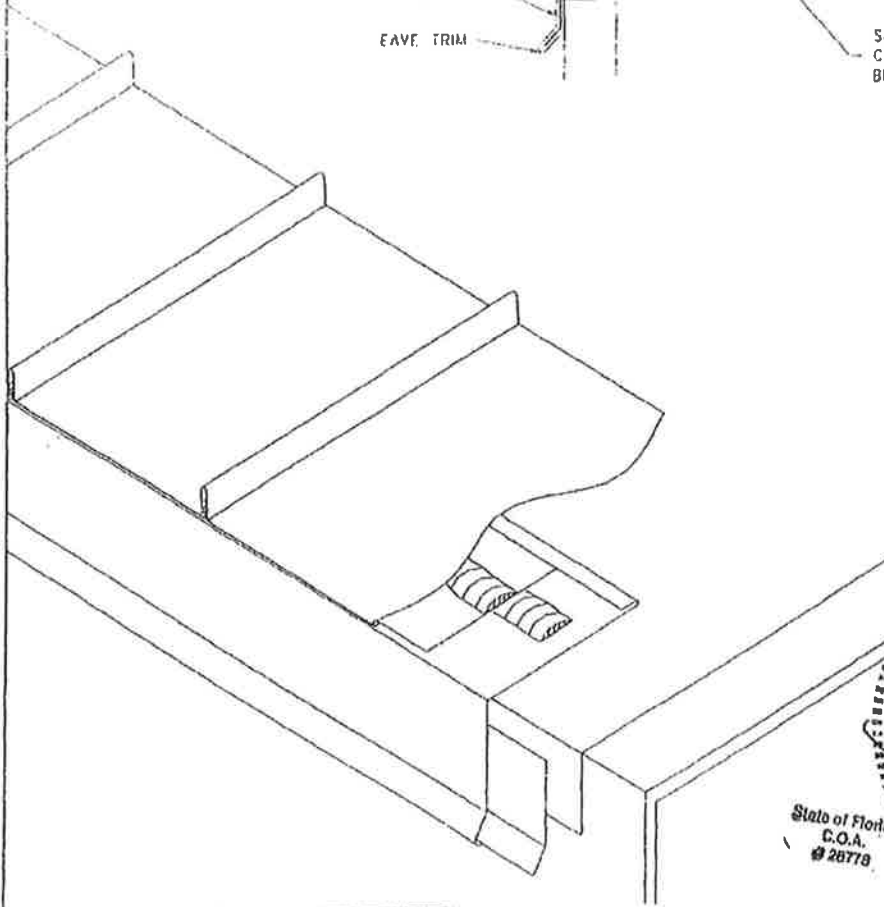
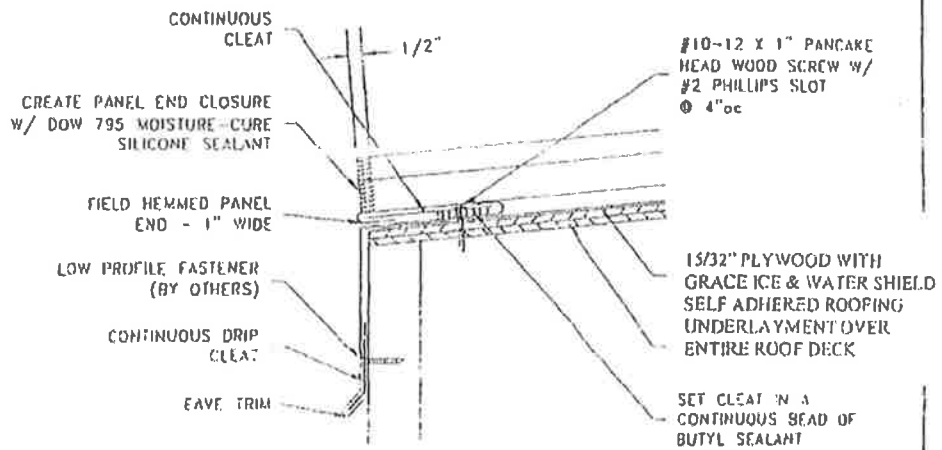


State of Florida  
C.O.A.  
# 28728

September 15, 2017

## LOW EAVE

- 1.) Temporarily attach eave trim at ends w/ #10-12 x 1" pancake head wood screws
- 2.) Apply butyl sealant across top of eave trim as shown.
- 3.) Attach cleat through sealant w/ #10-12 x 1" pancake head wood screws @ 4"oc.
- 4.) Apply a second bead of butyl sealant across the top of the cleat, and over the fastener heads.
- 5.) Install panels so that the cleat is engaged into the field applied here.

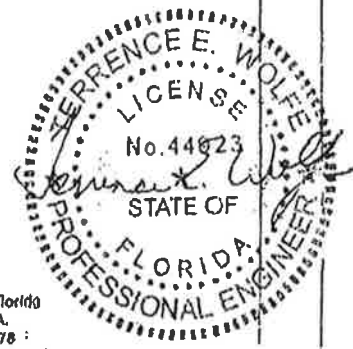
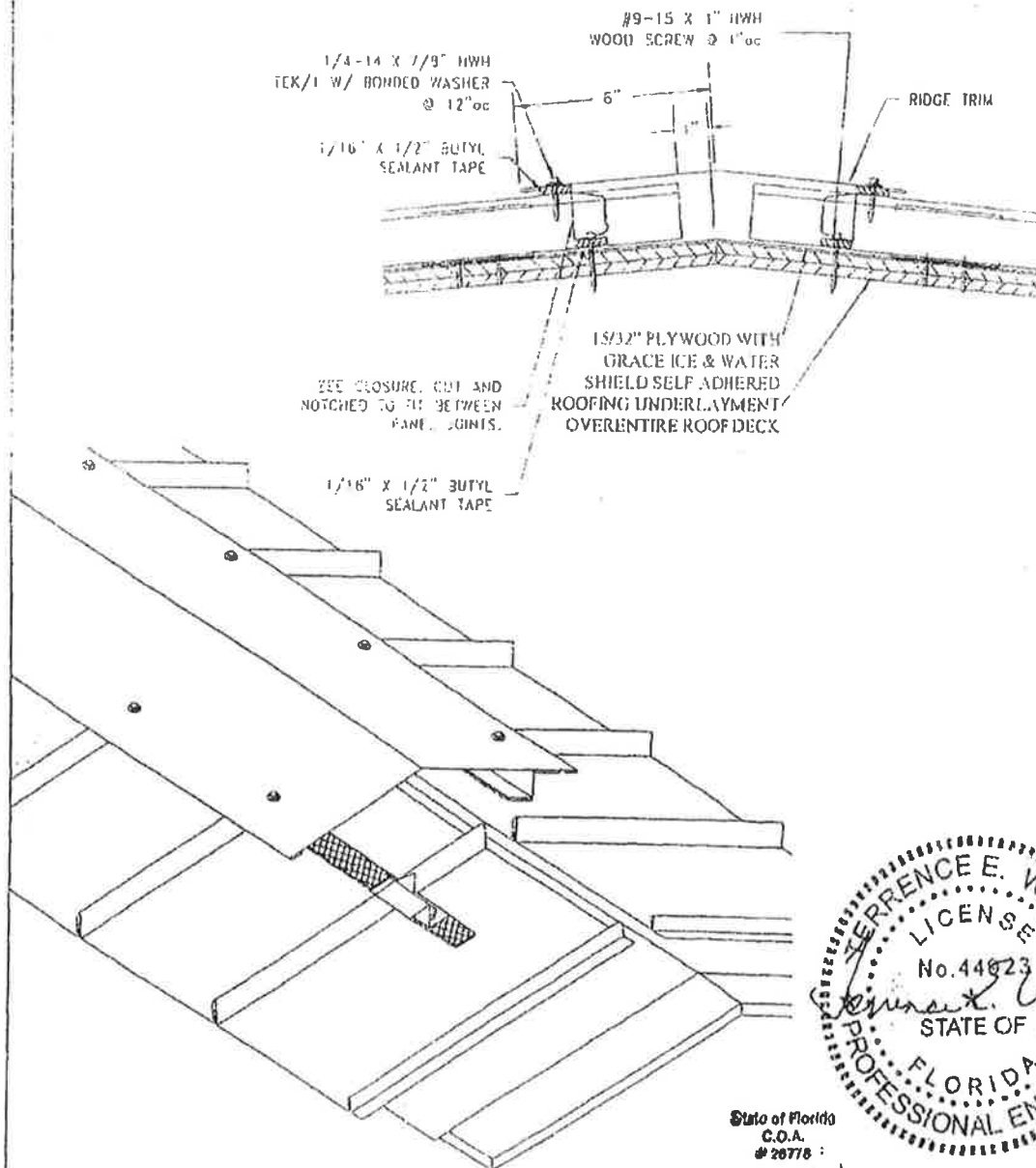


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## RIDGE / HIP

- 1.) Determine location of zee closure. Apply sealant tape to flat of panel.
- 2.) Place closure on top of sealant tape. Secure through tape and panel with #9-16 x 1" HWH wood screws @ 4" oc. Seal the tab of the closure to the side joints with butyl sealant.
- 3.) Apply a continuous strip of sealant tape to the top of the zee closure. Seal between ends of tape with butyl sealant.
- 4.) Install the ridge trim. Secure to closure zee with 1/4-14 x 7/8" HWH Tek/1 fasteners at 12" oc.



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