



City of Belle Isle Job Site Card **Roof PERMIT** 2018-08-063

PERMIT MUST BE POSTED ON SITE - A permit expires in 6 months if approved inspections are not recorded /scheduled within that time frame. You are responsible for scheduling and keeping track of all your inspections -

Permit Number: 2018- 08-063

Issue Date: 8/23/2018

Site Address: 6501 Matchett Rd 32809

Parcel #:24-23-29-0600-04-060

Class: Residential

Subdivision:

Description of Work: Re-roof SQFT - Asphalt Shingles Modified Bitumen

Issued To: Springer Josph Peter/ Homeowner

Business Phone: 407 607-1308

Name: Springer Josph Peter

Contractor License N/A

Payment Date & Method: 8 / 31 / 2018

Picked up by J. SPRINGO

Visa Master Card Amex Discover Check / Money Order # 3777

Schedule Inspections via Email at: BIDScheduling@universalengineering.com

SCHEDULE INSPECTIONS BY 3:00 PM CUT OFF TIME

Inspection Results Will Be Sent Out the Following Business Day

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

ROOF INSPECTOR DATE COMMENTS

ROOF	INSPECTOR	DATE	COMMENTS
NEW ROOFS ONLY Code 700 Deck Nailing, Dry-In, Flashing			
Both new & re-roof Code 710 In - Progress			
Both new & re-roof Code 720 Final			

Inspection requests are to be emailed to BIDScheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling.

Next-Day Inspection requests must be made by 3:00 p.m.

Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

AUG 21 2018

APPLICATION FOR ROOFING PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: 8/21/2018 ROOF PERMIT NUMBER 2018-08-063
PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 6501 Matchett Rd, Belle Isle, FL 32809 32812
Property Owner Joseph Springer Phone 407 607 1308
Property Owner's Mailing Address 6501 Matchett Rd City Belle Isle
State FL Zip Code 32809 Parcel Id Number: 24-23-29-0600-04-060
REQUIRED! To obtain this information, please visit <http://www.ocpafl.org/Searches/ParcelSearch.aspx>

Class of Building: Old New Type of Building: Residential Commercial Other
Type of Work: New Roof ReRoof

- REQUIRED! Florida Product Approval Screen Printout from www.floridabuilding.org for the Covering & Underlayment Products

Please indicate the nature of work by completing the information below:

Roof Square Footage: 8 Number of Stories: 1 Job Valuation: \$ 4,000.00
Type: Asphalt Shingles Metal Modified Bitumen Other: _____

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances. By signing below, I recognize Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Republic Services at 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Republic Services. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.

Home owner
LICENSE HOLDER SIGNATURE [Signature] LICENSE # N/A
Home owner
LICENSE HOLDER NAME Joseph P. Springer COMPANY NAME N/A
Street Address 6501 Matchett Rd
City Belle Isle State FL Zip Code 32809 Phone Number 407 607 1308
Email Address jspringer@hotmail.com
Zoning Fee \$ 0 - NEW

Structural approved by Date Bldg Permit 0018-01070
Building Official: SM Date 8-22-18
owner disclosure
Verified Contractor's Licenses & Insurance are on file 7 Date 8-21-2018

Building Fee \$ 50.00
Review Fee \$ 25.00
1% BCAIB Fee \$ 2.00
1.5% DCA Fee \$ 2.00
Total Permit Fee \$ 79.00

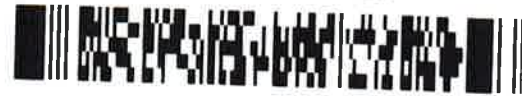
NOTE: The Building Permit Number is required if the Roof Installation is associated with any construction or alteration where a Building Permit has been issued.

1st IC 25
3x5 25
50.00
25
75.00

PAID
8-31-2018
MC 3777

Permit Number: _____
Folio/Parcel Identification Number: _____
Prepared by: _____
Return to: _____

DOCH 20180232097
04/18/2018 11:28:37 AM Page 1 of 1
Rec Fee: \$10.00
Phil Diamond, Comptroller
Orange County, FL
MB - Ret To: JOSEPH SPRINGER



NOTICE OF COMMENCEMENT

State of Florida, County of Orange

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

- Description of property** (legal description of the property, and street address if available)
6501 Matchett Road, Belle Isle, Florida 32809
- General description of improvement**
New Garage
- Owner information or Lessee information if the Lessee contracted for the improvement**
Name Joseph Springer
Address 6501 Matchett Rd, Belle Isle, FL - 32809
Interest in Property _____
Name and address of fee simple titleholder (if different from Owner listed above)
Name _____
Address _____
- Contractor**
Name Same as owner Telephone Number _____
Address _____
- Surety** (if applicable, a copy of the payment bond is attached)
Name _____ Telephone Number _____
Address _____ Amount of Bond \$ _____
- Lender**
Name _____ Telephone Number _____
Address _____
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
Name _____ Telephone Number _____
Address _____
- In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
Name _____ Telephone Number _____
Address _____
- Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified) 4/18/19

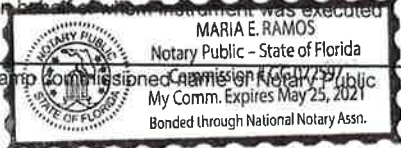
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated in it are true to the best of my knowledge and belief.

[Signature] _____
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager Signatory's Title/Office

The foregoing instrument was acknowledged before me this 18 day of April 2018 by Joseph Peter Springer
month/year name of person

as _____ for _____
Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed
[Signature] _____
Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public



Personally Known _____ OR Produced ID
Type of ID Produced FL DL S145-495-58-106-0
exp. 3/24/2020



City of Belle Isle

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Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

OWNER BUILDER DISCLOSURE STATEMENT

Per Florida Statute 455.228:

**Homeowners hiring unlicensed Contractors may be
subject a fine of up to \$5,000.00!**

Before me this day personally appeared Joseph Springer, who being duly sworn, deposes, and says as follows. "I hereby acknowledge that I have read and fully understand the individual provisions of this instrument."

1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license JS Initial
2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility. JS Initial
3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts. JS Initial
4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000.00. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption. JS Initial
5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction. Initial
6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance. JS Initial
7. I understand that it is a frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit, that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property. JS Initial
8. I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk. JS Initial
9. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations. JS Initial
10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at (850)487-1395 or www.Call.Center@dbpr.state.fl.us for more information about licensed contractors. JS Initial

Owner Builder Disclosure Statement

11. I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

Project Address: 6501 Matchett Rd. Belle Isle, FL 32809 Initial

12. I agree to notify the City of Belle Isle Building/Zoning Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Initial

13. FBC 105.3.6 requires asbestos abatement to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own asbestos abatement contractor even though you do not have a license. You must supervise the construction yourself. You may move, remove or dispose of asbestos-containing materials on a residential building where you occupy the building and the building is not for sale or lease, or the building is a farm outbuilding on your property. If you sell or lease such building within 1 year after the asbestos abatement is complete, the law will presume that you intended to sell or lease the property at the time the work was done, which is a violation of this exemption. You may not hire an unlicensed person as your contractor. Your work must be done according to all local, state and federal laws and regulations which apply to asbestos abatement projects. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. Initial

Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if any unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit. A copy of the property owner's driver license, the notarized signature of the property owner, or other type of verification acceptable to the local permitting agency is required when the permit is issued.

Signature: [Signature] Print: Joseph Springer
Signature: _____ Print: _____
Owner's Address: 6501 Matchett Road, Belle Isle, Florida 32809
The foregoing instrument was acknowledged before me this 2 / 12 / 2018
by Joseph Springer who is personally known to me / who produced the following Driver License as identification and who did not take an oath.
State of Florida / County of Orange Seal:
Notary Signature [Signature] MELISSA VILA Notary Public - State of Florida My Comm. Expires Jun 4, 2018 Commission # PF 129310

ROOF permit



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Product Approval Form

DATE: 8/21/18

PERMIT # 2018-08-063

PROJECT ADDRESS 6501 Matchett Road, Belle Isle, FL 32809 32812

As required by Florida Statue 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 or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

1. This Product Approval Cover Sheet
2. Internet screen from FloridaBuilding.org showing PA#, approval and code edition stamped
3. Manufacturer's installation details from FloridaBuilding.org and requirements for each product stamped

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbf Hung			<input checked="" type="checkbox"/>	Asphalt Shingles			
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion			<input checked="" type="checkbox"/>	Underlayment			FL12510
Skylights				Other <i>Metal</i>			
Other				<i>Standing Seam</i>			SL-9860
STRUCTURAL COMPONENTS				OTHER			
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 _____

Date _____



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Product Approval
USER: Public User

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 [Application List](#) >
 Application Detail

OFFICE OF THE SECRETARY

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., an NB Handy Company										
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 or a Licensed Florida 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	FL9860 R5 COI Letter of Certification - Secured.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>TAS 100</td> <td>1995</td> </tr> <tr> <td>TAS 125</td> <td>2003</td> </tr> <tr> <td>UL 1897</td> <td>2012</td> </tr> <tr> <td>UL 580</td> <td>2006</td> </tr> </tbody> </table>	Standard	Year	TAS 100	1995	TAS 125	2003	UL 1897	2012	UL 580	2006
Standard	Year										
TAS 100	1995										
TAS 125	2003										
UL 1897	2012										
UL 580	2006										
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
Date Approved

10/17/2017
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" Wide over 22 Ga. Steel Deck
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-153.5psf Other: -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.		Installation Instructions FL9860_R5_II_ML_200_24_Ga._over_Steel_Deck_HVHZ_Secured.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860_R5_AE_ML_200_24_Ga._over_Steel_Deck_HVHZ_Secured.pdf Created by Independent Third Party: Yes
9860.2	Sentrigard ML 200 AH	2" Mechanical Lock 0.032" Aluminum 19" Wide over 22 Ga. Steel Deck
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-138.5 Other: -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.		Installation Instructions FL9860_R5_II_ML_200AH_Alum_over_Steel_Deck_HVHZ_Secured.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860_R5_AE_ML_200AH_Alum_over_Steel_Deck_HVHZ_Secured.pdf Created by Independent Third Party: Yes
9860.3	SENTRIGARD ML100 AH	1.0 Mechanical Lock 0.032" Aluminum 16" Wide over Plywood
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-101.0PSF Other: -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.		Installation Instructions FL9860_R5_II_ML_100AH_Alum_over_Plywood_HVHZ_Secured.pdf Verified By: TERRENCE WOLFE,P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860_R5_AE_ML_100AH_Alum_over_Plywood_HVHZ_Secured.pdf Created by Independent Third Party: Yes
9860.4	SENTRIGARD ML100 H	1.0 Mechanical Lock, 24 Ga. 16 1/2" Wide over Plywood
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-138.5PSF Other: -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.		Installation Instructions FL9860_R5_II_ML_100H_24_Ga._over_Plywood_HVHZ_Secured.pdf Verified By: TERRENCE E. WOLFE, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860_R5_AE_ML_100H_24_Ga._over_Plywood_HVHZ_Secured.pdf Created by Independent Third Party: Yes
9860.5	SENTRIGARD ML150 H	1.5 Mechanical Lock, 24 Ga. Steel, 16" Wide over Plywood
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-123.5PSF Other: -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.		Installation Instructions FL9860_R5_II_ML_150H_24_Ga._over_Plywood_HVHZ_Secured.pdf Verified By: TERRENCE E. WOLFE, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860_R5_AE_ML_150H_24_Ga._over_Plywood_HVHZ_Secured.pdf Created by Independent Third Party: Yes
9860.6	SENTRIGARD ML150AH	1.5 Mechanical Lock 0.032" Aluminum, 16" Wide over Plywood
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-93.5psf Other: -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		Installation Instructions FL9860_R5_II_ML_150AH_Aluminum_over_Plywood_HVHZ_Secured.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860_R5_AE_ML_150AH_Aluminum_over_Plywood_HVHZ_Secured.pdf Created by Independent Third Party: Yes
9860.7	SENTRIGARD NS 100	1.0 Nail Strip, 24 Ga. Steel, 16" Wide over Plywood
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-153.5PSF Other: -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		Installation Instructions FL9860_R5_II_NS_100_24_Ga._over_Plywood_Secured.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860_R5_AE_NS_100_24_Ga._over_Plywood_Secured.pdf Created by Independent Third Party: Yes

Spacing in slot. Install per Manufacturer's Details. Not for use in HVHZ Zones.		
9860.8	SENTRIGARD NS150 H	1.5 Nail Strip , 24 Ga., 15 1/2" Wide over Plywood
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-116 PSF Other: -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.		Installation Instructions FL9860 R5 II NS 150H 24 Ga. over Plywood HVHZ Secured.pdf Verified By: TERRENCE E WOLFE,P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860 R5 AE NS 150H 24 Ga. over Plywood HVHZ Secured.pdf Created by Independent Third Party: Yes
9860.9	SENTRIGARD SL 175H	1.75 Snap Lock 17 3/4" Wide over 22 Ga. Steel Deck
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-108.5psf Other: -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.		Installation Instructions FL9860 R5 II SL 175H 24 Ga. over Steel Deck HVHZ Secured.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860 R5 AE SL 175H 24 Ga. over Steel Deck HVHZ Secured.pdf Created by Independent Third Party: Yes
9860.10	SENTRIGARD SL100 H	1.0 Snap Lock, 24 Ga. Steel, 17" Wide over Plywood
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-131PSF Other: -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.		Installation Instructions FL9860 R5 II SL 100H 24 Ga. over Plywood HVHZ Secured.pdf Verified By: TERRENC E. WOLFE,P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860 R5 AE SL 100H 24 Ga. over Plywood HVHZ Secured.pdf Created by Independent Third Party: Yes
9860.11	SENTRIGARD SL150 H	1.5 Snap Lock, 24 Ga. 16" Wide over Plywood
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-108.5PSF Other: -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.		Installation Instructions FL9860 R5 II SL 150H 24 Ga. over Plywood HVHZ secured.pdf Verified By: TERRENCE E. WOLFE,P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL9860 R5 AE SL 150H 24 Ga. over Plywood HVHZ secured.pdf Created by Independent Third Party: Yes

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Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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

Sentrigard ML 200, 24 Ga. 18 7/8" Wide Roof Panel over 22 Ga. Steel Deck

Florida Product Approval # 9860.1 R5

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:

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, 1518.9, 1523.6.5.2.4.

Product Description: Sentrigard ML 200, 2" Mechanical Lock Standing Seam Roof Panel, 24 Ga. Steel, 18 7/8" Wide, Roof Panel restrained with steel slider clips into min. 22 Ga. steel 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: 18 7/8" max coverage
Rib Height: 2"
Panel Seam: 180° Seam, Double Lock w/ mechanical seamer

Roof Panel Clips: Product Name: 2000SNS, Sliding Clip Assembly
Type: Two Piece Slider
Top: 22 Ga. Galvanized Steel
Base: 16 Ga. Galvanized Steel
Corrosion Resistance: Per Florida Building Code 2017 Section 1506.7

Roof Clip Fastener: (2) #14-13 Dek Fast per clip
3/4" minimum penetration through steel deck
Corrosion Resistance: Per Florida Building Code 2017, Section 1517.6.

Substrate Description: Min. 22 Ga. steel deck, Min. Fy = 33 ksi. Design of steel deck and steel deck 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"

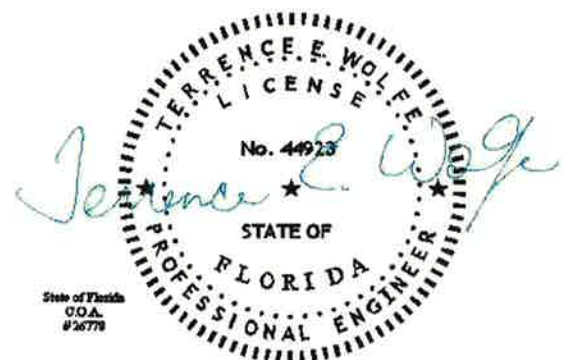
Maximum Total Uplift Design Pressure:	54.3 psf	153.5 psf
Clip Spacing:	36" O.C.	6" O.C.
# Fasteners per Clip:	2	2

*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. 72-0272T-07*, Dated 02/04/2008
 2. TAS 100-95
Farabaugh Engineering & Testing, Inc. (FBC Organization # TST-1654)
Report No. T106-08*, Dated 01/14/2008
 3. TAS 110-00: Valspar Fluoropon 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:**
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:

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:

½" Georgia Pacific "Dens Deck" or manufacturer approved equal with current NOA.

Insulation:

1"-4" thick Polyiso rigid insulation, min. 20 psi compressive strength. Manufacturer approved with current NOA and conforming to Florida Building Code 2017.

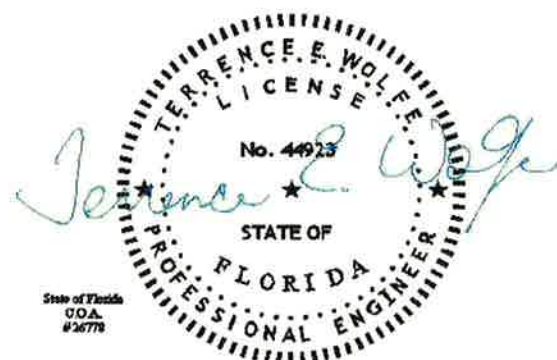
Shear Diaphragm:

Shear diaphragm values are outside the scope of this report.

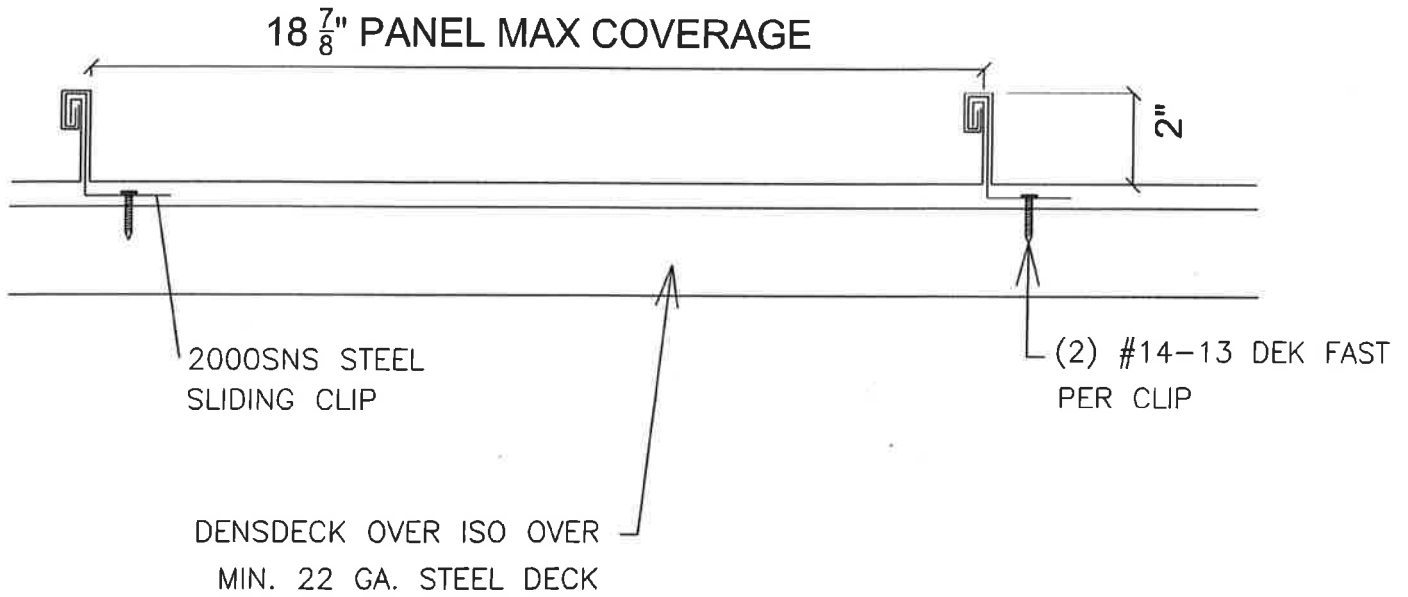
Design Procedure:

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.



SENTRIGARD ML 200 24 GA. STEEL SSR PANEL

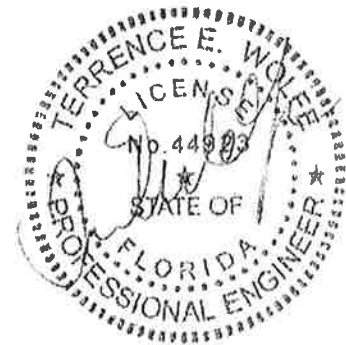
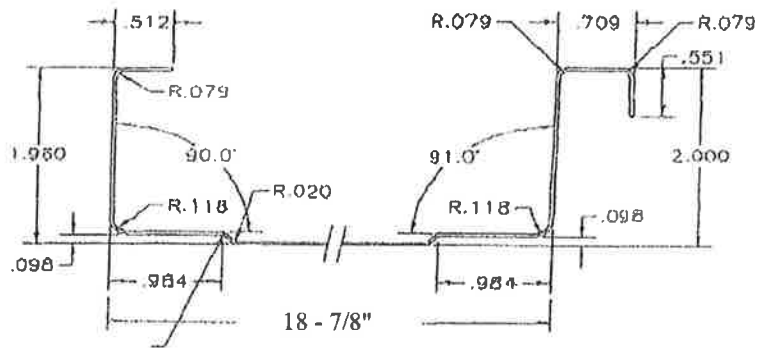


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September 15, 2017

2 Inch Mechanical Lock Panel



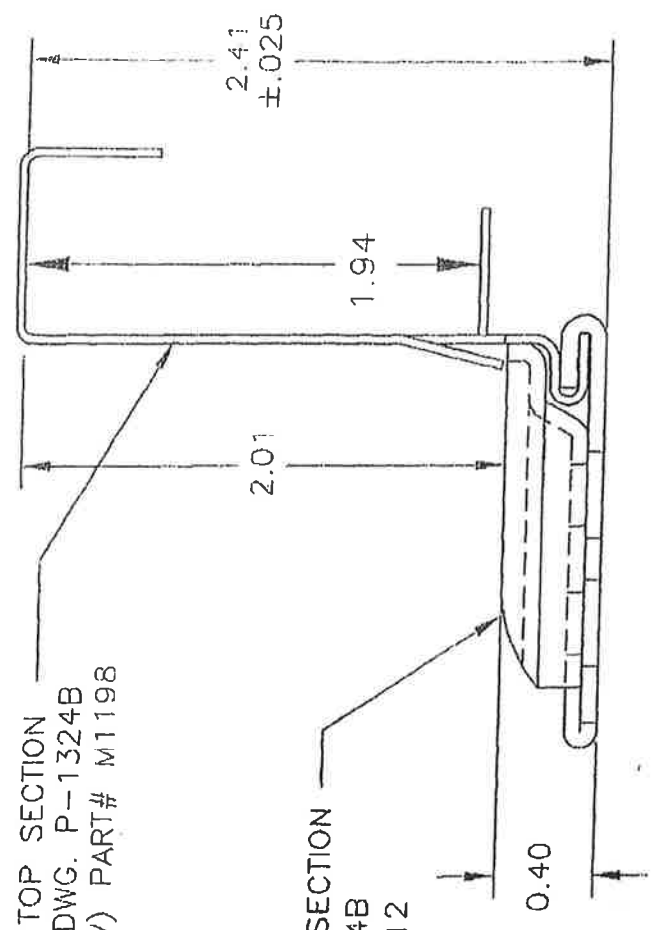
State of Florida
C.O.A.
26770

September 15, 2017



CLIP TOP SECTION
 SEE DWG. P-1324B
 (GALV) PART# M1198
 September 15, 2017

CLIP BASE SECTION
 DWG. P-714B
 PART# M0412



Measured edges are not broken or rounded.

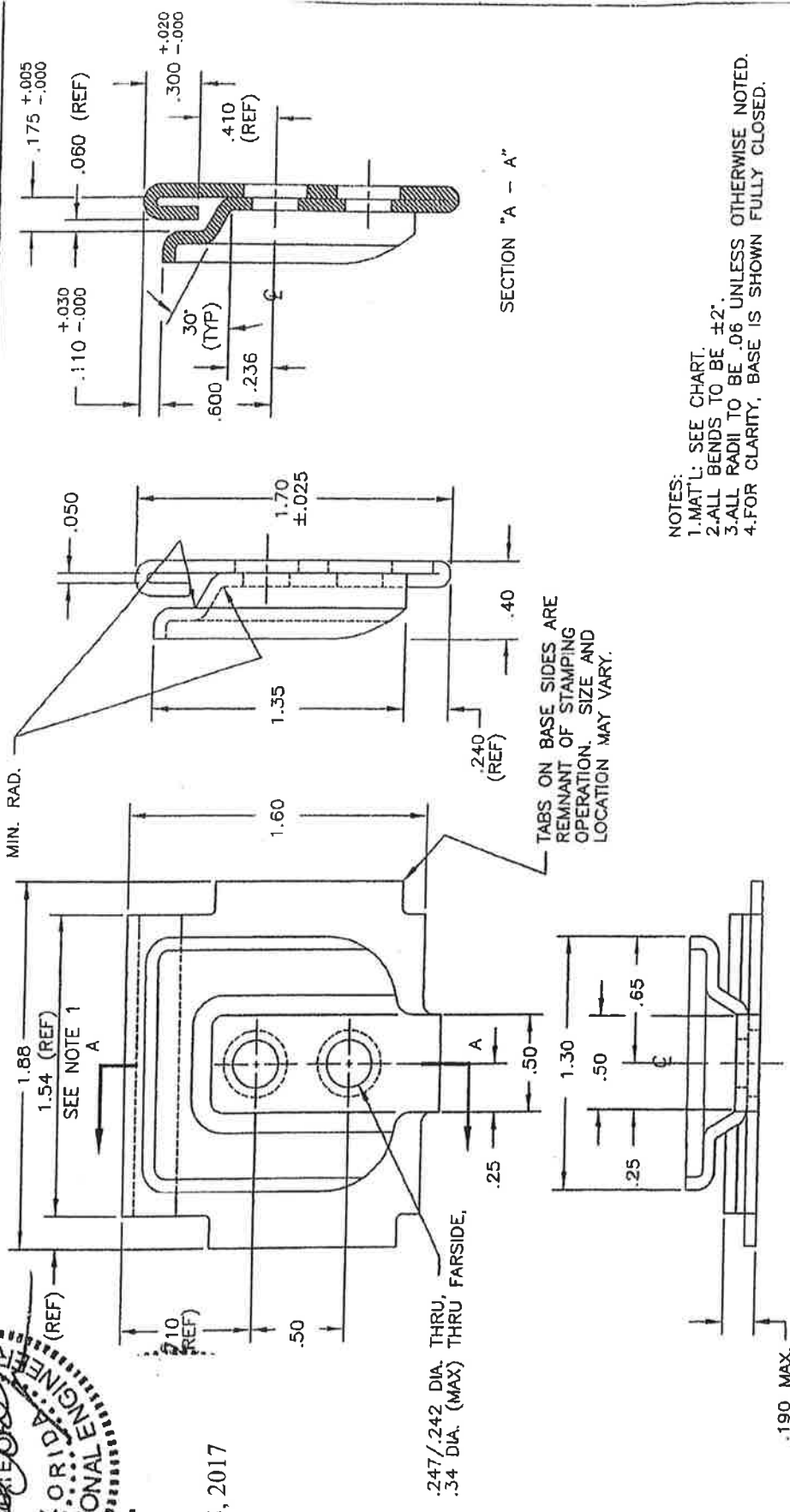
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FRACTIONAL 1/64	DECIMAL .001
TOLERANCE ±.001	TOLERANCE ±.001
METRIC UNITS (mm)	ENGLISH UNITS (Inches)

Material SFS Intec P.O. Box 6206 Wyndolite, PA 15242 Ph 68-716-5723 Fax 68-716-6932	Heat Treat Tem / Qty VSM Standard Other Standard	Surface Finishing Anodize <input type="checkbox"/> Beige <input type="checkbox"/> After Surface Treatment Customer Imp. No.
Tool No. Part Desc Drawing Form Scale 1:1	Description METAL FORMING INC. 2" SLIDING CLIP ASSEMBLY - PART No. 2000SNS	Issues Date 3/17/02
Rev Date 17/25/03 5637	Rev Date 3/17/02	Drawing Number SD-1326A
PNY W/O SEALANT	MATERIAL DESCRIPTION 22 GA (.030-.034) 18-8 SS 3/16" YIELD MIN PER MPS-051 22 GA (.030-.034) G20 GALV. STEEL 33ksi YIELD MIN. PER MPS-008	Fasteners Systems PNE



State of Florida
C.O.A.
2877A

September 15, 2017



TABS ON BASE SIDES ARE
REMNANT OF STAMPING
OPERATION. SIZE AND
LOCATION MAY VARY.

- NOTES:
- MAT'L: SEE CHART.
 - ALL BENDS TO BE $\pm 2^\circ$.
 - ALL RADII TO BE $\pm .06$ UNLESS OTHERWISE NOTED.
 - FOR CLARITY, BASE IS SHOWN FULLY CLOSED.

REV		DATE	ZONE	EDR	INTAL	DESCRIPTION	APPROVAL
L	3/11/02		5111	N/A	JCS	BASE DETAILS FOR TWO PIECE SLIDING CLIP	
MATERIAL DESCRIPTION							
PM W/ SEALANT	M412 (1060-.066 TH) G90 GALV. STL. PLAIN FINISH (SEE MFS-008)						
<p>DESIGNED BY: SFS Intec, Inc. (SEE CHART FOR PART NUMBER)</p> <p>DRAWN BY: SFS Intec, Inc. (SEE CHART FOR PART NUMBER)</p> <p>DATE: 03/11/02</p> <p>SCALE: AS SHOWN</p>							

SENTRIGARD™
ML 200 PANEL

BUTLY CAULK
BETWEEN WEBS

BUTYL TAPE
SEALANT

#10-12 x 1"
FASTENERS, 12" O.C.

EAVE FLASHING

#10-12 x 1"
FASTENER, 12" O.C.

1/2" DENSDECK

WOOD BLOCKING,
BY OTHERS

CLEAT

RIGID INSULATION

APPROVED
UNDERLAYMENT

METAL DECK,
BY OTHERS



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N.B. HANDY CO., INC.
4625 Alexander Drive, Suite 135
Alpharetta, GA 30022-3737
Ph: (770) 667-0463

SENTRIGARD ML 200 E-1

Project:

Contractor:

Designer:

Date:

Scale:



FIELD BEND PANEL, ADD BUTYL TAPE SEALANT

SENTRIGARD™ ML 200 PANEL

RAKE Z CLOSURE, W/ #10-12x1" @ 11" O.C. AND BUTYL TAPE BELOW

POP RIVETS @ 20" O.C.

#10-12 x 1" @ 7" O.C.

18" WIDE POLYPOLY-GLASS UNDERLAYMENT

RAKE FLASHING WOOD BLOCKING, BY OTHERS

CLEAT

POP RIVETS @ 20" O.C.

1/2" DENSDECK

RIGID INSULATION

22 GA. METAL DECK, BY OTHERS



State of Florida
C.O.A.
28778

September 15, 2017

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SENTRIGARD ML 200 RK-2

Project:

Contractor:

Designer:

Date:

Scale:



SENTRIGARD™
ML 200 PANEL
FLOATING
CLIP W/ (2) #14
x 3" PER CLIP

#10-12 x 1"
@ 7" O.C.

PANEL HEMMED

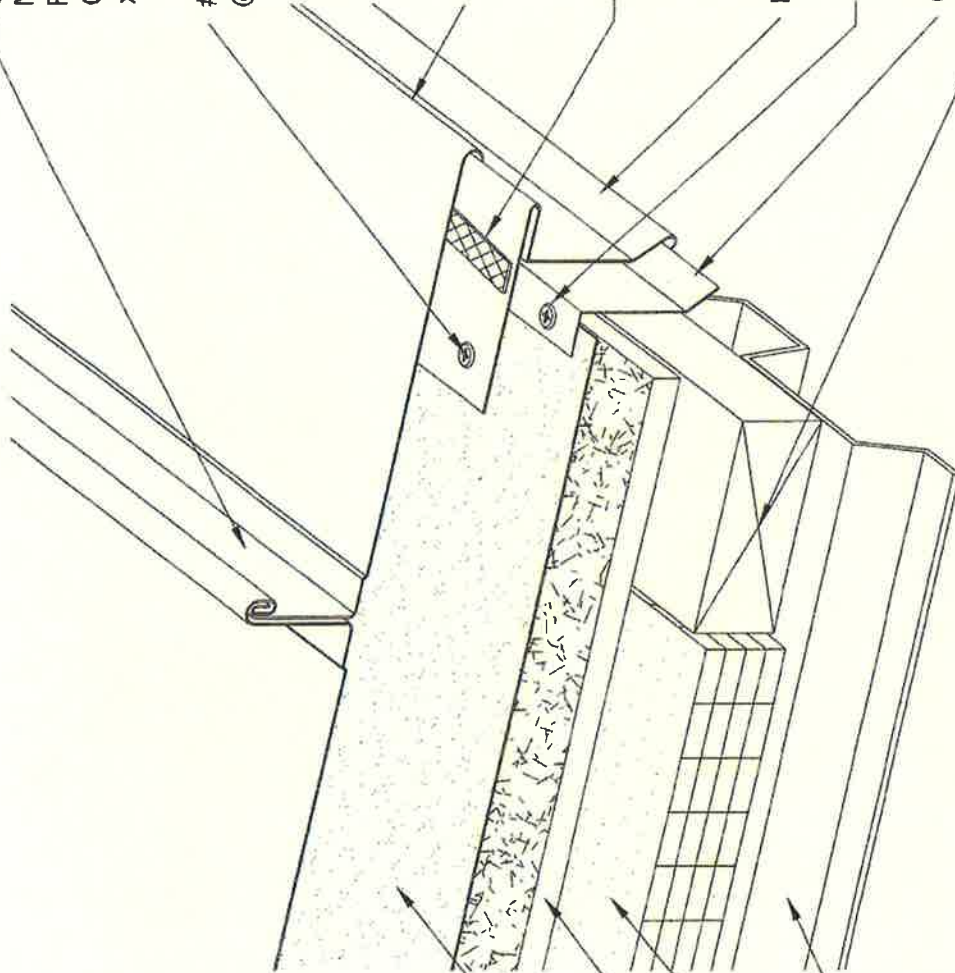
BUTYL TAPE

RAKE FLASHING

#10-12 x 1"
@ 6" O.C.

CLEAT

WOOD BLOCKING,
BY OTHERS



18" WIDE
POLY-GLASS
UNDERLAYMENT

1/2" DENSEDECK

RIGID INSULATION

METAL DECK,
BY OTHERS



September 15, 2017

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SENTRIGARD ML 200 RK-3

Project:

Contractor:

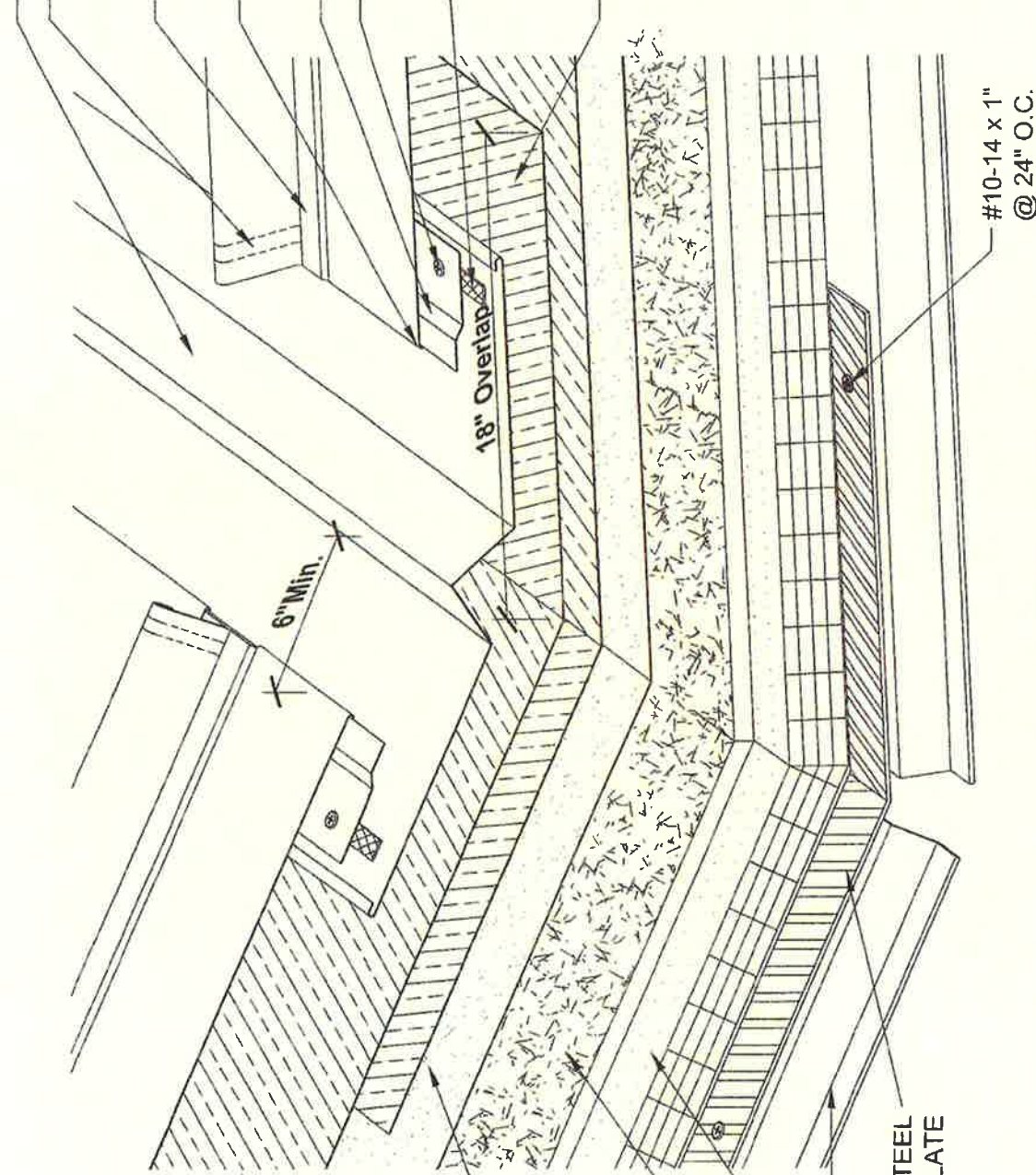
Designer:

Date:

Scale:



VALLEY PAN
 CAULK BETWEEN
 WEBS @ PANEL
 ENDS
 SENTRIGARD™
 ML 200 PANEL
 PANEL HEM
 OFFSET CLEAT
 #10-12 x 1"
 @ 6" O.C.
 BUTYL TAPE
 SEALANT
 POLY GLASS
 UNDER
 LAYMENT
 FULL SHEET IN
 VALLEY



State of Florida
 C.O.A.
 # 26778
 September 15, 2017

30#
 APPROVED
 FELT PAPER

1/2" DENSDECK

RIGID INSULATION

METAL DECK,
 BY OTHERS

18 GA. STEEL
 BACK-UP PLATE

#10-14 x 1"
 @ 24" O.C.

Project:

Contractor:

Designer:

Date:

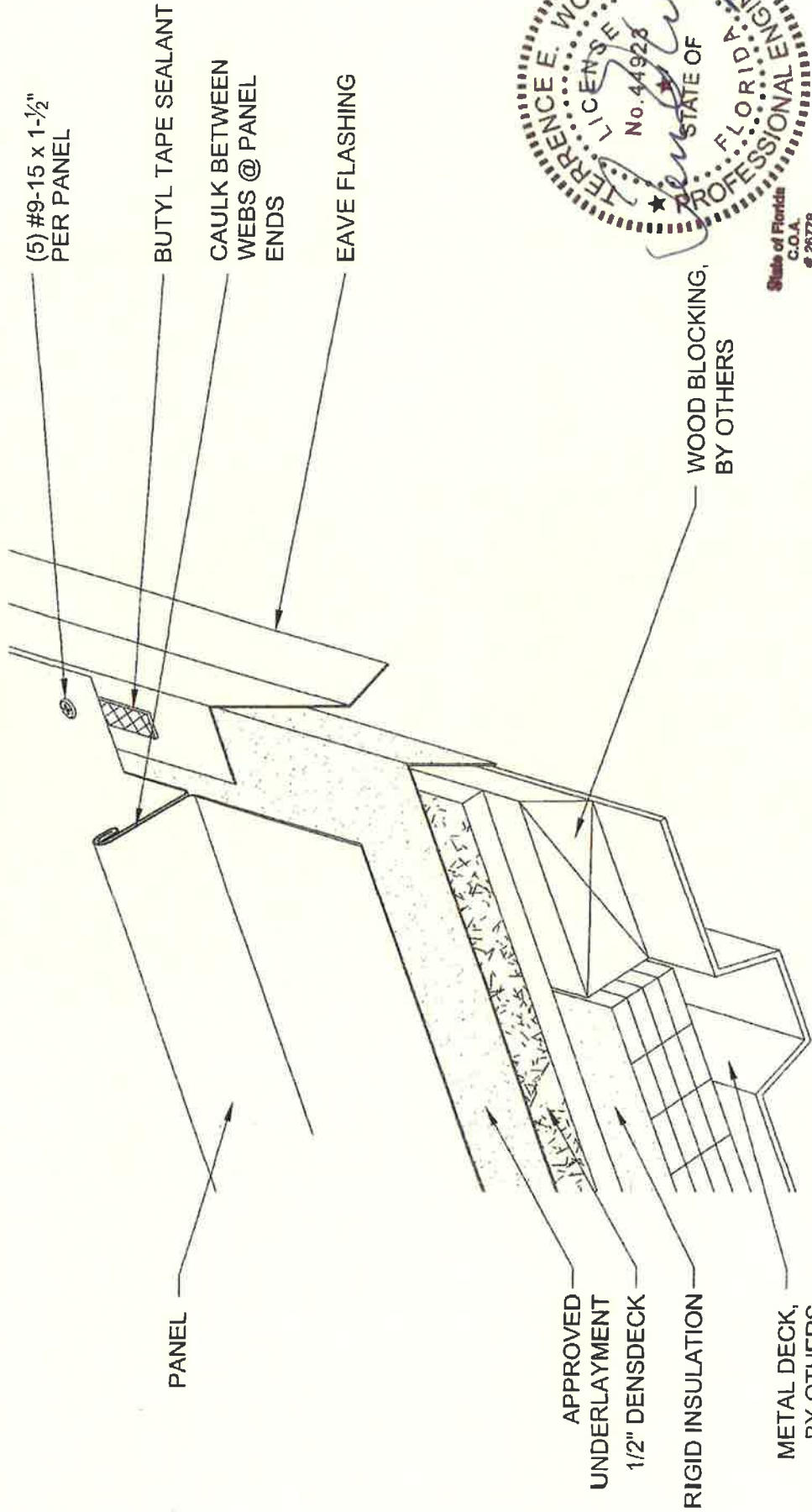
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sentrigard
 metal roofing systems

SENRIGARD ML 200 V-1



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SENTRIGARD ML 200 PK-2

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OFFICE OF THE SECRETARY

FL #	FL12510-R7	
Application Type	Revision	
Code Version	2017	
Application Status	Approved	
Comments		
Archived	<input type="checkbox"/>	
Product Manufacturer	PrimeSource Building Products, Inc.	
Address/Phone/Email	2115 East Beltline Road Carrollton, TX 75006 (508) 436-6100 barregop@primesourcecbp.com	
Authorized Signature	Pete Barrego barregop@primesourcecbp.com	
Technical Representative	Pete Barrego 333 Manley Street West Bridgewater, MA 02379 (508) 436-6100 barregop@primesourcecbp.com	
Quality Assurance Representative		
Address/Phone/Email		
Category	Roofing	
Subcategory	Underlayments	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen	
Florida License	PE-59166	
Quality Assurance Entity	UL LLC	
Quality Assurance Contract Expiration Date	04/19/2019	
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received	
Certificate of Independence	FL12510 R7 COI 2017 01 COI Nieminen.pdf	
Referenced Standard and Year (of Standard)	Standard ASTM D226 (physicals) ASTM D4533 (tear)	Year 2009 2015
Equivalence of Product Standards Certified By		
Sections from the Code		
Product Approval Method	Method 1 Option D	
Date Submitted	10/04/2017	
Date Validated	10/11/2017	

Date Pending FBC Approval
Date Approved

10/15/2017
12/12/2017

Summary of Products

FL #	Model, Number or Name	Description
12510.1	Grip-Rite ShingleLayment@ Synthetic Roofing Underlayments	Synthetic roof underlayments
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Refer to ER Section 5 for Limits of Use.		Installation Instructions FL12510 R7 II 2017 10 FINAL PRIMESOURCE Underlayments FL12510-R7.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL12510 R7 AE 2017 10 FINAL PRIMESOURCE Underlayments FL12510-R7.pdf Created by Independent Third Party: Yes

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EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503
353 CHRISTIAN STREET, UNIT #13
OXFORD, CT 06478
(203) 262-9245

EVALUATION REPORT



PrimeSource Building Products, Inc.
2115 East Beltline Road
Carrollton, TX 75006
(508) 436-6100

Evaluation Report P40180.01.12-R5
FL12510-R7
Date of Issuance: 01/18/2012
Revision 5: 10/04/2017

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: **PrimeSource Roof Underlayments**

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 4.

Prepared by:



Robert J.M. Nieminen, P.E.

Florida Registration No. 59185, Florida DCA ANE1983

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 10/04/2017. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Underlayment

Compliance Statement: PrimeSource Roof Underlayments, as produced by PrimeSource Building Products, Inc., have demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Properties</u>	<u>Standard</u>	<u>Year</u>
1507.1.1, T1507.1.1	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
1507.1.1	Tear Strength	ASTM D4533	2015

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	Physical Properties	P12460.03.09	03/19/2009
ERD (TST6049)	Physical Properties	P12460.04.09-R2	03/02/2011
ERD (TST6049)	Physical Properties	P44880.08.13-2	08/27/2013
ERD (TST6049)	Physical Properties	P46850.12.13	12/03/2013
ERD (TST6049)	Physical Properties	SC5430.03.14	03/24/2014
ERD (TST6049)	Physical Properties	PSBP-SC10480.01.16	01/15/2016
ERD (TST6049)	Physical Properties	PSBP-SC11500.11.16	11/29/2016
ERD (TST6049)	FBC 1507.1.1 (Exception)	PSBP-CT14270.17	09/14/2017
Miami-Dade (CER1592)	FBC HVHZ compliance	14-0520.11	08/14/2014
ICC-ES (EVL2396)	2015 IBC/IRC compliance	ESR-2945	03/01/2017
UL LLC (QUA9625)	Quality Control	Service Confirmation	Exp. 04/19/2019

4. PRODUCT DESCRIPTION:

- 4.1 **Grip-Rite ShingleLayment® Premium** is a woven 10x10 scrim polypropylene, two-side coated roof underlayment; meets FBC 1507.1.1 (Exception).
- 4.2 **Grip-Rite ShingleLayment-15 Pro®** and **Grip-Rite ShingleLayment-15®** are woven 8x8 scrim polypropylene, bottom-side coated roof underlayments with a spun bonded non-woven lamination on the top surface; meet FBC 1507.1.1 (Exception).
- 4.3 **Grip-Rite ShingleLayment-LWE®** or **Grip-Rite ShingleLayment-E®** are woven 8x8 scrim polypropylene, two-side coated roof underlayments; meet FBC 1507.1.1 (Exception).



5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory or test report from accredited testing agency for fire ratings of this product.

5.4 **PrimeSource Roof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.

5.5 **Allowable Roof Covers:**

TABLE 1: ROOF COVER OPTIONS						
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate or Simulated Slate
Grip-Rite ShingleLayment® Premium	Yes	No	No	Yes	Yes	Yes
Grip-Rite ShingleLayment-15 Pro® or Grip-Rite ShingleLayment-15®	Yes	No	No	Yes	Yes	Yes
Grip-Rite ShingleLayment-LWE® or Grip-Rite ShingleLayment-E®	Yes	No	No	Yes	Yes	Yes

5.6 **Exposure Limitations:**

Grip-Rite ShingleLayment® shall not be left exposed for longer than 30-days after installation.

6. **INSTALLATION:**

6.1 **PrimeSource Roof Underlayments** shall be installed in accordance with **PrimeSource Building Products, Inc.** published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.

6.2 Grip-Rite ShingleLayment® Premium, Grip-Rite ShingleLayment-15 Pro®, Grip-Rite ShingleLayment -15®, Grip-Rite ShingleLayment-LWE® or Grip-Rite ShingleLayment-E®:

- 6.2.1 Shall be installed in compliance with the requirements for ASTM D226, Type I or II underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed, taking into account the wider sheet-width for double-layer applications.
- 6.2.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.
- 6.2.3 Corrosion resistant fasteners shall be plastic cap nails or plastic cap-staples (max. 30 day exposure for plastic cap-staples) with minimum 1-inch diameter head. Ensure fasteners are installed at 90 degree angle to the deck with flush contact between the plastic cap and the upper surface of the underlayment. Fasteners shall be of sufficient length to penetrate through the underside of plywood or OSB decks, or minimum ¾-inch embedment into dimensional lumber / tongue-and-grove wood decks.
- 6.2.4 Install a leak barrier of **ASTM D1970** or equal holding **Florida Statewide Product Approval** at vulnerable leak areas, including but not limited to eaves, valleys, rakes, skylights and dormers. At eaves and valleys, install the leak barrier prior to installation of **Grip-Rite ShingleLayment®**. Along the rake, install **Grip-Rite ShingleLayment®**, leaving 6 to 8-inch of the deck exposed, and then install the leak barrier over the **Grip-Rite ShingleLayment®** and exposed decking. At other areas, install the leak barrier over the **Grip-Rite ShingleLayment®**.

6.2.5 Non-Tile Roof Installations:

Single Layer; Roof Slope > 4:12:

Starting at the eave, fasten the eave edge and 6-inch wide vertical laps max. 8-inch o.c., and max. 24-inch o.c. down the center of the roll.

Continue upslope in a similar manner, maintaining minimum 4-inch wide horizontal and minimum 6-inch wide vertical laps. Fasten 8-inch o.c. at the laps and 24-inch o.c. down the center of the roll. Ensure all vertical laps are staggered at least 3-feet apart.

In wind zones of $V_{ult} > 142$ mph per **FBC Figure 1609.3(1), 1609.3(2) or 1609.3(3)** ($V_{asd} > 110$ mph per **FBC 1609.3.1**), increase the fastening schedule to 4-inch o.c. at all laps and 24-inch o.c. down the center of the sheet in the field of the roof.

Double Layer; 2:12 < Roof Slope < 4:12:

Starting at the eave, fasten the eave-edge of a half-width starter-strip and 6-inch wide vertical laps 8-inch o.c.

Continue upslope in a similar manner, with minimum 24-inch horizontal and minimum 6-inch vertical laps. Fasten 8-inch o.c. along the low edge and vertical laps and 24-inch o.c. down the center of the roll. Ensure all vertical laps are staggered at least 3-feet apart.

In wind zones of $V_{ult} > 142$ mph per **FBC Figure 1609.3(1), 1609.3(2) or 1609.3(3)** ($V_{asd} > 110$ mph per **FBC 1609.3.1**), increase the fastening schedule to 4-inch o.c. at all laps and 24-inch o.c. down the center of the sheet in the field of the roof.

6.2.6 Batten-Secured, Non-Tile Roof Covers:

When battens are installed over the **Grip-Rite™ ShingleLayment®**, the underlayment need only be preliminarily attached in advance of batten installation. Ensure preliminary underlayment attachment does not interfere with batten locations.

PrimeSource Building Products recommends use of a pressure sensitive, double sided tape or an SBS peel and stick foil-faced or double sided tape as a gasket between the batten and the underlayment.

6.2.7 Grip-Rite ShingleLayment® may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the noted QA agency for information on product locations covered for **F.A.C. 61G20-3** QA requirements. The following plants have qualified products under their respective physical properties specifications.

Plant	Specification	Product(s)
Shandong, China	FBC 1507.1.1 (Exception)	Grip-Rite ShingleLayment Premium, Grip-Rite ShingleLayment-LWE, Grip-Rite ShingleLayment-E
Lixian City, China	FBC 1507.1.1 (Exception)	Grip-Rite ShingleLayment-15 Pro, Grip-Rite ShingleLayment-15

9. QUALITY ASSURANCE ENTITY:

UL LLC – QUA9625; (847) 664-3623, LeAnna.Gradeki@ul.com

- END OF EVALUATION REPORT -