



PERMIT CARD – PLEASE POST AT JOB SITE
 THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per FBC 105.3.3: An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies." The issuance of this permit does not grant permission to violate any applicable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and Mechanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after commencement. **WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD.** PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE, FLORIDA.

Scope of Work: ROOF – new for boat dock approved with original plans
Comments: None
Project Information
 Address: 3007 Trentwood Blvd, Belle Isle, FL 32812
 Parcel ID: 20-23-30-1876-04-130
 Property Owner: Nilsson, Joakim
 Phone Number: none

 Company Name: Premier Deck & Dock
 Contractor Name: Goonen, Steve
 License Number: CGC1512225
 Address: PO Box 2043, Windermere, FL 34786
 Phone Number: 407 574 8816

Permit Number: 2017-03-088
Date of Application: 03/24/2017
Date Permit Issued: 03/27/2017

WARNING TO OWNER: "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU 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." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.

BUILDING FEATURES

IMPACT FEES	
School	\$
Traffic	\$
ZONING FEES	
Zoning Fee	\$none - new
UNIVERSAL ENG - BUILDING FEES	
Cert of Occ	\$
Demo	\$
Building	\$
Fence	\$
Driveway	\$
Shed	\$
Window(s)	\$
Door(s)	\$
PrePower	\$
Electrical	\$
Temp Pole	\$
Plumbing	\$
Mechanical	\$
Gas	\$
Roofing	\$75.00
Boat Dock	\$
Screen Encl	\$
Swimming Pool	\$
Sign	\$
SURCHARGE FEES	
Surcharge Fee	\$2.00
Surcharge Fee	\$2.00
TOTAL FEES \$79.00	
Date Paid	4-5-17
CC or Check #	MC8880
Amount Paid	79.00
The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).	

BUILDING INSPECTOR USE ONLY

IF APPLICABLE:
 Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions Been Met? YES NO Silt fencing in place? YES NO Turbidity Barrier in place? YES NO

BUILDING

1st _____ (Footing/Foundation)
 Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? ____

2nd _____ (Slab)

3rd _____ (Lintel)(Wall Reinforcing on Masonry Building)

4th _____ (Exterior Framing)(Roof/Wall Sheathing)

5th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)

6th _____ (Insulation to be Made After Roof Installed)

7th _____ (Drywall)

8th _____ (Sidewalk/Driveway)

9th _____ (Other)

10th _____ (Final – After MEP and Other Applicable Finals)

ROOFING

1ST ROOFING Deck Nailing/Dry-in/Flashing _____

2nd ROOFING Covering In-Progress _____

3rd ROOFING Covering Final _____

PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)

1st _____ (Underground) 2nd _____ (Sewer)

3rd _____ (Rough-In/Tub Set) 4th _____ (Final)

CHECK APPROPRIATE BOX

GAS ___Natural___LP MECHANICAL ELECTRICAL LOW VOLTAGE

1st _____ (Rough-In) 2nd _____ (Final)

Inspection requests are to be emailed to BDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. **Next-Day Inspection requests must be made by 4pm.** 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

RECEIVED
MAR 24 2017

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: 3/15/17

ROOF PERMIT NUMBER 2017-03-088

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 3007 Trentwood Blvd, Belle Isle, FL 32809 X 32812

Property Owner Joakim Nillson Phone 407-766-5450

Property Owner's Mailing Address 3007 Trentwood Blvd City Belle Isle

State FL Zip Code 32819 Parcel Id Number: 29-23-30-1876-04-130

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 showing the Code Version
- **REQUIRED!** Florida Product Approval Installation Instructions from www.floridabuilding.org (not the manufacturer instructions)
- **REQUIRED!** Copies of your General Liability & Worker's Comp Insurance Certificate & State and Local Licenses

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

Roof Square Footage: 840 Number of Stories: 1 Job Valuation: \$ 5,000

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.

LICENSE HOLDER SIGNATURE _____ LICENSE # CGC 1512225

LICENSE HOLDER NAME Steve Goonen COMPANY NAME Premier Deck and Dock

Street Address PO Box 2043

City Windermere State FL Zip Code 34786 Phone Number 407-574-8816

Email Address info@premierdeckanddock.com

Building Official: Joe Crumpton 79658 Date 3-28-17

Verified Contractor's Licenses & Insurance are on file (Signature) Date 3-27-17

Zoning Fee	\$ <u>0 new ref</u>
Permit Fee	\$ <u>50</u>
Review Fee	\$ <u>25</u>
3% Florida Surcharge	\$ <u>4.12</u>
Total Permit Fee	\$ <u>79.12</u>

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.

79658

1ST IK 25
5x5 25
50

2017-10-040



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: 3/23/17

PERMIT # 2017-03-088

PROJECT ADDRESS 3007 Trentwood Blvd, 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				Asphalt Shingles			
Horizontal Slider				Non Struct Metal	Metal Sales	Image II	FL11560.2
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Underlayment	<i>none for dock</i>		
Skylights				Other			
Other							
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 Chris Prunty

Date 3/23/17



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Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**



FL #	FL11560-R2												
Application Type	Revision												
Code Version	2014												
Application Status	Approved												
Comments													
Archived	<input type="checkbox"/>												
Product Manufacturer	Metal Sales Manufacturing Corporation												
Address/Phone/Email	545 South 3rd Street, Suite 200 Louisville, KY 40202 (812) 218-7342 dsterner@metalsales.us.com												
Authorized Signature	David Stermer dsterner@metalsales.us.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 checked="" type="checkbox"/> Evaluation Report - Hardcopy Received												
Florida Engineer or Architect Name who developed the Evaluation Report	Bala Sockalingam												
Florida License	PE-62240												
Quality Assurance Entity	Keystone Certifications, Inc.												
Quality Assurance Contract Expiration Date	12/31/2020												
Validated By	Yousef Lavi, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received												
Certificate of Independence	FL11560 R2 COI CertificateIndependence.pdf												
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>TAS 125</td> <td>2003</td> </tr> <tr> <td>UL 1897</td> <td>1998</td> </tr> <tr> <td>UL 1897</td> <td>2004</td> </tr> <tr> <td>UL 580</td> <td>2006</td> </tr> <tr> <td>UL 580</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	TAS 125	2003	UL 1897	1998	UL 1897	2004	UL 580	2006	UL 580	1994
Standard	Year												
TAS 125	2003												
UL 1897	1998												
UL 1897	2004												
UL 580	2006												
UL 580	1994												
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL11560 R2 Equiv TestEquivalentC2009 2 3 12.pdf												
Sections from the Code													

Product Approval Method Method 1 Option D

Date Submitted 03/31/2015
 Date Validated 04/07/2015
 Date Pending FBC Approval 04/12/2015
 Date Approved 06/22/2015

Summary of Products

FL #	Model, Number or Name	Description
11560.1	Aluminum 5V-Crimp	24" wide, nom 0.032" thick (min.) aluminum through fastened roof panel over min 15/32" thick plywood deck or 7/16" thick OSB with fasteners through panel rib.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-161.5 Other: Uplift load of 30 psf at fastener spacing of 36" o.c. and 161.5 psf at fastener spacing of 6" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 1.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 1.pdf Created by Independent Third Party: Yes
11560.2	Aluminum Image II	16" wide, nom 0.032" thick (min.) aluminum concealed fastener roof panel over min 15/32" thick plywood deck or 7/16" thick OSB.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-107.35 Other: Uplift load of 22.5 psf at fastener spacing of 24" o.c. and 107.35 psf at fastener spacing of 6" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 2.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 2.pdf Created by Independent Third Party: Yes
11560.3	Aluminum Image II	16" wide, nom 0.032" thick (min.) aluminum concealed fastener roof panel over min 19/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-195.0 Other: Uplift load of 22.5 psf at fastener spacing of 24" o.c., 104.7 psf at fastener spacing of 6" o.c. and 195.0 psf at fastener spacing of 6" o.c. with support strap.		Installation Instructions FL11560 R2 II EvaluationReportC2009 3.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 3.pdf Created by Independent Third Party: Yes
11560.4	Image II	Min. 26 ga., max. 16" wide standing seam roof panel over min. 15/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-84.25 Other: Uplift load of 84.25 psf at fastener spacing of 24" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 4.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 4.pdf Created by Independent Third Party: Yes
11560.5	Image II	Min. 26 ga., max. 16" wide standing seam roof panel over min. 19/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-139.1 Other: Uplift load of 84.25 psf @ fastener spacing of 24", 102.7 psf @ fastener spacing of 6" and 139.1 psf @ fastener spacing of 6" with 3/8" bead adhesive in sidelap		Installation Instructions FL11560 R2 II EvaluationReportC2009 5.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 5.pdf Created by Independent Third Party: Yes
11560.6	Magna-Loc	Min. 24 ga., 16" wide standing seam roof panel over plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-166.0 Other: Uplift load of 95.2 psf @ MC clip spacing of 30" o.c., 101.0 psf @ MC clip spacing of 15" o.c., 123.5 psf @ MC clip		Installation Instructions FL11560 R2 II EvaluationReportC2009 6.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 6.pdf Created by Independent Third Party: Yes

spacing of 8" o.c. and 166 psf @ MPW clip spacing of 12" o.c.		
11560.7	Magna-Loc	Min. 24 ga., 16" wide standing seam roof panel over steel deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-168.5 Other: Uplift load of 59.7 psf @ MC clip spacing of 36" o.c. and 168.5 psf @ MPW clip spacing of 12" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 7.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 7.pdf Created by Independent Third Party: Yes
11560.8	Stile	Min. 26 ga., 39.4" wide through fastened roof panel over min. 15/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-102.7 Other: Uplift load of 85.8 psf at fastener spacing of 24" o.c. and 102.7 psf at fastener spacing of 12" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 8.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 8.pdf Created by Independent Third Party: Yes
11560.9	Stile	Min. 26 ga., 39.4" wide through fastened roof panel over min. 19/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-149.6 Other: Uplift load of 50.4 psf at fastener spacing of 36" o.c., 106.8 psf at fastener spacing of 24" o.c. and 149.6 psf at fastener spacing of 12" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 9.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 9.pdf Created by Independent Third Party: Yes
11560.10	Vertical Seam	Min 24 ga., max. 16" wide standing seam roof panel over min. 15/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-114.25 Other: Uplift load of 30.0 psf at clip spacing of 48" o.c., 73.0 psf at clip spacing of 24" o.c. and 114.25 psf at clip spacing of 8" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 10.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 10.pdf Created by Independent Third Party: Yes
11560.11	Vertical Seam	Min 24 ga., max. 18" wide standing seam roof panel over min. 15/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-105 Other: Uplift load of 30.0 psf at clip spacing of 48" o.c., 82.5 psf at clip spacing of 12" o.c. and 105.0 psf at clip spacing of 12" o.c. with sidelap adhesive.		Installation Instructions FL11560 R2 II EvaluationReportC2009 11.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 11.pdf Created by Independent Third Party: Yes
11560.12	Vertical Seam	Min. 26 ga., 16" wide standing seam roof panel over min. 15/32" thick plywood deck
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-81.3 Other: Uplift load of 30.0 psf at clip spacing of 48" o.c. and 81.3 psf at clip spacing of 6" o.c.		Installation Instructions FL11560 R2 II EvaluationReportC2009 12.pdf Verified By: Bala Sockalingam PE 62240 Created by Independent Third Party: Yes Evaluation Reports FL11560 R2 AE EvaluationReportC2009 12.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 Approval Accepts:



Credit Card
Safe



**EVALUATION REPORT OF
METAL SALES MANUFACTURING CORPORATION
'NOM 0.032" THICK ALUMINUM IMAGE II PANEL'**

**FLORIDA BUILDING CODE 5TH EDITION (2014)
FLORIDA PRODUCT APPROVAL
FL 11560.2-R2
ROOFING
METAL ROOFING**

**Prepared For:
Metal Sales Manufacturing Corporation
545 South 3rd Street, Suite 200
Louisville, KY 40202
Telephone: (502) 855-4300
Fax: (502) 855-4290**

**Prepared By:
Bala Sockalingam, Ph.D., P.E.
Florida Professional Engineer #62240
1216 N Lansing Ave., Suite C
Tulsa, OK 74106
Telephone: (918) 492-5992
FAX: (866) 366-1543**

**This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)**

**Report No. C2009-2
Date: 3.27.15**



Manufacturer: Metal Sales Manufacturing Corporation

Product Name: Aluminum Image II

Panel Description: Max. 16" wide coverage with 1" high ribs

Materials: Nom. 0.032" thick (min.) 3004-H14 or 3105-H24 Alloy (ASTM B209).

Deck Description: Min. 7/16" thick OSB or min. 15/32" thick Plywood for new and existing constructions. Designed and installed as per FBC 2014.

**Deck Attachment:
(Minimum)** 8d x 2.5" long ring shank nails or #8 x 2" long wood screws @ 6" o.c. in the plywood field and edges

New Underlayment: Minimum underlayment as per FBC 2014 Section 1507.4.5.1. Required for new construction and optional for reroofing construction.

**Existing Underlayment:
(Optional)** One layer of asphalt shingles over one layer of #30 felt. For reroofing construction only.

Slope: 2:12 or greater in accordance with FBC 2014 Section 1507.4.2

**Design Uplift Pressure:
(Factor of Safety = 2)** 22.5 psf @ fastener spacing of 24" o.c.
107.35 psf @ fastener spacing of 6" o.c.

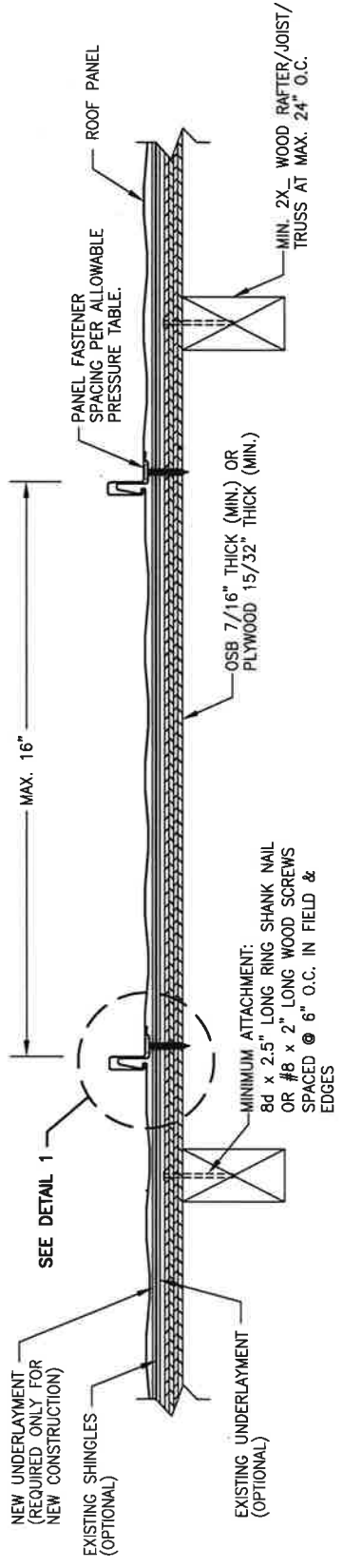
Fastener Pattern: #10-12 pancake head screws along panel seam. Fastener shall be of sufficient length to penetrate through the deck a minimum of 3/8".

Test Standards: Roof assembly tested in accordance with UL580-94 (Rev 98) 'Uplift Resistance of Roof Assemblies' & UL1897-98 'Uplift Tests for Roof Covering Systems'.

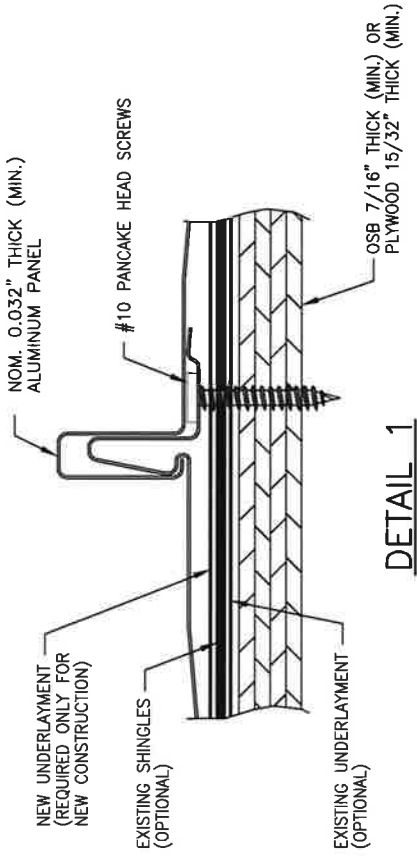
Code Compliance: The product described herein has demonstrated compliance with FBC 2014 Section 1507.4

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2014 Section 1609 or ASCE 7-10 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2014 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: UL580 & UL1897 Test Reports
Farabaugh Engineering and Testing Inc
Project No. T209-11, Reporting Date 5/27/11



TYPICAL PANEL INSTALLATION X-SECTION



ALLOWABLE UPLIFT PRESSURE

FASTENER SPACING (IN)	PRESSURE (PSF)
24	22.5
6	107.35

GENERAL NOTES:

1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS ARE SHALL BE NOM. 0.032" THICK (MIN.) ALUMINUM. MAX. COVERING WIDTH OF PANEL = 16".
3. THE ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON THIS DRAWING.
5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. RAFTERS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.



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Product Approval
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 Application Detail

OFFICE OF THE SECRETARY

FL #	FL14317-R7										
Application Type	Revision										
Code Version	2014										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	Boral Roofing / MonierLifetile										
Address/Phone/Email	7575 Irvine Center Drive Suite 100 Irvine, CA 92618 (602) 269-2288 Ext 8320 thomas.jemmett@boral.com										
Authorized Signature	Thomas Jemmett BoralRoofingUSAQuality@boral.com										
Technical Representative	Adrian Cooper										
Address/Phone/Email	135 NW 20th Street Boca Raton, FL 33431 (954) 520-5461 acooper@minierlifetile.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 checked="" type="checkbox"/> Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Robert J. M. Nieminen										
Florida License	PE-59166										
Quality Assurance Entity	UL LLC										
Quality Assurance Contract Expiration Date	10/13/2017										
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL14317 R7 COI 2015 01 COI Nieminen.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM D1970</td> <td>2009</td> </tr> <tr> <td>FRSA/TRI (April 2012) 04-12</td> <td>2012</td> </tr> <tr> <td>TAS 103</td> <td>1995</td> </tr> <tr> <td>UL 1897</td> <td>2004</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM D1970	2009	FRSA/TRI (April 2012) 04-12	2012	TAS 103	1995	UL 1897	2004
<u>Standard</u>	<u>Year</u>										
ASTM D1970	2009										
FRSA/TRI (April 2012) 04-12	2012										
TAS 103	1995										
UL 1897	2004										
Equivalence of Product Standards Certified By											
Sections from the Code											

Product Approval Method	Method 1 Option D
Date Submitted	07/01/2015
Date Validated	07/02/2015
Date Pending FBC Approval	07/11/2015
Date Approved	08/19/2015

Summary of Products

FL #	Model, Number or Name	Description
14317.1	Boral Roof Underlayments	Roof underlayments for use in prepared roof assemblies
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-202.5 Other: 1.) The design pressure in this application pertains to a particular underlayment system for use under foam-on tile systems. Refer to ER Section 5.6.2 for all such systems and max design pressures. 2.) Refer to ER Section 5 for Limits of Use.		Installation Instructions FL14317 R7 II 2015 07 FINAL ER BORAL Underlayments FL14317-R7.pdf Verified By: Robert J. M. Nieminen PE - 59166 Created by Independent Third Party: Yes Evaluation Reports FL14317 R7 AE 2015 07 FINAL ER BORAL Underlayments FL14317-R7.pdf Created by Independent Third Party: Yes

[Back](#) [Next](#)

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

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Product Approval Accepts:



Credit Card
Safe





EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503

353 CHRISTIAN STREET, UNIT #13

OXFORD, CT 06478

PHONE: (203) 262-9245

FAX: (203) 262-9243

EVALUATION REPORT

Boral Roofing

7575 Irvine Center Drive

Suite 100

Irvine, CA. 92618

Evaluation Report M35710.12.10-R8

FL14317-R7

Date of Issuance: 12/21/2010

Revision 8: 07/01/2015

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 5th Edition (2014) Florida Building Code sections noted herein.

DESCRIPTION: Boral 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.

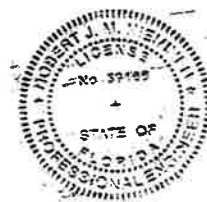
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 6.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 07/01/2015. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

CERTIFICATION OF INDEPENDENCE:

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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: Boral Roof Underlayments, as marketed by Boral Roofing, have demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind Uplift	UL 1897	2004
1507.2.4, 1507.2.8, 1507.2.9.2, 1507.4.5.1, 1507.4.5.2, 1507.5.3, 1507.5.3.2, 1507.6.3, 1507.6.3.2, 1507.7.3, 1507.7.3.2	Physical Properties	ASTM D1970	2009
1507.3.3	Installation Practice	FRSA/TRI April 2012 (04-12)	2012
1523.6.5.2.1	Physical Properties	TAS 103	1995

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	Wind Uplift	T6460.06.07-R1	10/09/2007
ERD (TST6049)	Physical Properties	T33190.08.10	08/06/2010
ERD (TST 6049)	Physical Properties	M33180.08.10	10/09/2010
ERD (TST6049)	Wind Uplift	T37610.07.11	07/29/2011
ERD (TST 6049)	Physical Properties	B40380.08.12	08/28/2012
ERD (TST 6049)	Physical Properties	C41420.09.12-2	09/11/2012
ERD (TST 6049)	Physical Properties	B41940.09.12	09/13/2012
ERD (TST 6049)	Physical Properties	B47390.07.14-1	07/31/2014
ERD (TST 6049)	Physical Properties	B47390.09.14	09/04/2014
PRI (TST 5878)	Physical Properties	NEI-006-02-01	04/01/2002
PRI (TST 5878)	Physical Properties	NEI-034-02-02	03/23/2006
PRI (TST 5878)	Physical Properties	NEI-045-02-01	08/08/2007
PRI (TST 5878)	Physical Properties	NEI-053-02-01	05/01/2008
PRI (TST 5878)	Physical Properties	NEI-070-02-01	08/12/2009
PRI (TST 5878)	Physical Properties	NEI-031-02-02:REV 10.27.10	10/27/2010
PRI (TST 5878)	Physical Properties	NEI-029-02-01REV: 11.03.10	12/03/2010
PRI (TST 5878)	Physical Properties	NEI-046-02-01REV	12/17/2010
PRI (TST 5878)	Physical Properties	NEI-034-02-02 / MLT-015-02-01	01/29/2013
PRI (TST 5878)	Wind Uplift	BORR-001-02-01	03/17/2015
PRI (TST 5878)	Wind Uplift	BORR-005-02-01	06/24/2015
UL, LLC. (QUA 9625)	Quality Assurance	Service Confirmation, R14610	Exp. 12/10/2017
UL, LLC. (QUA 9625)	Quality Assurance	Cross-Listing Confirmation, R16744	09/04/2013
UL, LLC. (QUA 9625)	Quality Assurance	Service Confirmation, R16744	Exp. 10/13/2017

4. PRODUCT DESCRIPTION:

4.1 **Self-Adhering Underlayments:**

- 4.1.1 **Boral TileSeal® 50^{HT}** is a nominal 50-mil thick, polyester-surfaced, self-adhering SBS modified bitumen roof underlayment.
- 4.1.2 **Boral TileSeal® HT** is a nominal 60-mil thick, polyester-surfaced, self-adhering SBS modified bitumen roof underlayment.
- 4.1.3 **GatorSeal®** is a nominal 55-mil thick, granular-surfaced, fiberglass reinforced, self-adhering SBS modified bitumen roof underlayment.
- 4.1.4 **StormSentry™** is a nominal 120-mil thick, mineral-surfaced, fiberglass reinforced, self-adhering SBS modified bitumen roof underlayment.
- 4.1.5 **Citadel® Plus** is a nominal 48-mil thick, fabric-surfaced, fiberglass reinforced, self-adhering SBS modified bitumen roofing underlayment for use as a base-layer in two-ply underlayment systems.

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 the HVHZ.
- 5.3 Fire Classification is not part of this Laboratory Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 Boral 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 AHJ for approval based on this evaluation combined with supporting data for the prepared roof covering.
- 5.5 Allowable roof covers applied atop Boral Roof Underlayments are follows. Table 1 pertains to use of each listed underlayment by-itself beneath the stated roof covers. Refer to the installation instructions and Table 2 for two-ply underlayment options.

TABLE 1: ROOF COVER OPTIONS						
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate
Boral TileSeal 50 ^{HT}	Yes	Yes (battens only)	No	Yes	Yes	Yes
Boral TileSeal ^{HT}	Yes	Yes	Yes (See 5.5.1)	Yes	Yes	Yes
GatorSeal	Yes	Yes (battens only)	No	No	Yes	Yes
StormSentry	Yes	Yes	No	No	Yes	Yes

- 5.5.1 "Foam-On Tile" is limited to use of the following unless tensile adhesion / long term aging data from an accredited testing laboratory is provided.

Underlayment	Tile Adhesives
Boral TileSeal ^{HT}	3M™ 2-Component Foam Roof Tile Adhesive AH-160 (FL6332) 3M™ Roof Tile Adhesive RTA-1 (FL6276) Dow TILE BOND™ Roof Tile Adhesive (FL717) Convenience Products' Touch 'n Seal StormBond Roof Tile Adhesive (FL14506)

- 5.6 Allowable Substrates:

- 5.6.1 Direct-Bond to Deck:

Citadel Plus, Boral TileSeal 50^{HT}, Boral TileSeal^{HT}, StormSentry or GatorSeal:
 ➤ Plywood (unprimed or primed with ASTM D41 primer).

Boral TileSeal^{HT}:
 ➤ OSB primed with ASTM D41 primer.

- 5.6.2 Wind Resistance of Underlayment Systems in Foam-On Tile Applications: FRSA/TRI April 2012 (04-12) does not address wind uplift resistance of all underlayment systems beneath foam-on tile systems, where the underlayment forms part of the load-path. The following wind uplift limitations apply to underlayment systems that are not prescriptively addressed in FRSA/TRI April 2012 (04-12) and are used in foam-on tile applications. Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per FBC 1504.9 has already been applied). Refer to FRSA/TRI April 2012 (04-12), Appendix A, Table 1A or FBC 1609 for determination of design wind loads.

- 5.6.2.1 Maximum Design Pressure = -105 psf.

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Ply: (Optional) Citadel Plus, self-adhered
 Underlayment: Boral TileSeal^{HT}, self-adhered and back-nailed within the selvedge-edge side laps using 12 ga. x 1¼" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.

- 5.6.2.2 **Maximum Design Pressure = -202.5 psf.**
 Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Primer: ASTM D41 to the plywood deck
 Base Ply: (Optional) Citadel Plus, self-adhered
 Underlayment: Boral TileSeal^{HT}, self-adhered, and back-nailed within the selvedge-edge side laps using 12 ga. x 1¼" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.

5.6.3 **Bond to Base Layer Underlayment:**

Citadel Plus, Boral TileSeal 50^{HT}, Boral TileSeal^{HT} or GatorSeal:
 ➤ ASTM D226, Type II felt; Citadel Plus.

StormSentry:
 ➤ ASTM D226, Type II felt; Citadel Plus.

For installations under mechanically attached prepared roof coverings, base layer shall be attached per minimum codified requirements. For installations under foam-on tile systems, base layer shall be attached per minimum requirements of FRSA/TRI April 2012 (04-12), Appendix A, Table 1 or as tested in accordance with FBC Section 1504.3.1.

5.6.4 **Bond to Other Substrate Types:**

Citadel Plus, Boral TileSeal 50^{HT}, Boral TileSeal^{HT}, StormSentry or GatorSeal:
 ➤ ASTM D41 primed metal (e.g., flashing metal, valley metal, etc).

Boral TileSeal^{HT}:
 ➤ Huber Zip Deck (unprimed or primed with ASTM D41 primer); Dens Deck Prime.

Note: For installation under mechanically attached prepared roof coverings, insulation shall be attached per minimum requirements of the prepared roof covering manufacturer's Product Approval.

5.7 **Exposure Limitations:**

- 5.7.1 GatorSeal shall not be left exposed for longer than 30-days after installation, prior to placement of final roof cover.
 5.7.2 StormSentry shall not be left exposed for longer than 90-days after installation, prior to placement of final roof cover.
 5.7.3 Alcazar, Boral TileSeal 50^{HT} and Boral TileSeal^{HT} shall not be left exposed for longer than 180-days after installation, prior to placement of final roof cover.
 5.7.4 Citadel Plus, for use as a base-layer in a two-ply underlayment system, shall not be left exposed for longer than 180-days after installation, prior to placement of subsequent underlayment layer.

6. INSTALLATION:

- 6.1 Boral Roof Underlayments shall be installed in accordance with Boral Roofing published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.
 6.2 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, and prime the substrate (if applicable).
 6.3 Install self-adhering underlayment when ambient and surface temperatures are minimum 40°F and rising.

6.4 Citadel Plus:

- 6.4.1 Citadel Plus is limited to use as a base or mid-layer in multi-ply underlayment systems beneath Boral TileSeal 50^{HT}, Boral TileSeal^{HT}, GatorSeal or StormSentry.
 6.4.2 Slope limitations are those associated with the top-layer underlayment.

6.4.3 **Direct to Deck:**

Cut the membrane into manageable lengths, typically 10 to 12 ft. Align the membrane parallel to the roof edge, extending over by ¼-inch. Fold the membrane away from the edge onto itself. Remove the release sheet. Place the membrane with the exposed rubberized asphalt onto the deck, pressing firmly into place. Roll into place with a weighted roller.

Boral recommends fastening of the top edge of the sheet to the deck with roofing nails, nails & tin-tags or 1-inch diameter plastic or steel cap nails spaced 24-inch o.c. for slopes below 7:12 and 12-inch o.c. for slopes 7:12 and greater. Overlap successive courses minimum 2 inches (horizontal lap) and minimum 4" end (vertical) laps.

Install final underlayment layer atop Citadel Plus per 'direct-to-deck' instructions for Boral TileSeal 50^{HT}, Boral TileSeal^{HT}, GatorSeal or StormSentry.

- 6.4.4 **To Base Sheet:**
Install ASTM D226, Type II felt in accordance with Code requirements or install Citadel Plus in accordance with Boral Roofing published installation instructions and Section 6.4.3 and when used as part of a multi-ply system.
Install Citadel Plus as a mid-ply in accordance with Boral Roofing published installation instructions and Section 6.4.3.
Install final underlayment layer atop Citadel Plus per 'direct-to-deck' instructions for Boral TileSeal 50^{HT}, Boral TileSeal^{HT}, GatorSeal or StormSentry.
- 6.5 Boral TileSeal 50^{HT}:**
- 6.5.1 Install Boral TileSeal 50^{HT} in compliance with manufacturer's published installation instructions and the requirements for ASTM D1970 underlayments in FBC Sections 1507 for the type of prepared roof covering to be installed.
- 6.5.2 Do not use Boral TileSeal 50^{HT} on roof pitches less than 2:12.
- 6.5.3 **Non-Tile Applications, Direct to Deck:**
Cut the membrane into manageable lengths, typically 10 to 12 ft. Align the membrane parallel to the roof edge, extending over by ¼-inch. Fold the membrane away from the edge onto itself. Remove the release sheet. Place the membrane with the exposed rubberized asphalt onto the deck, pressing firmly into place. Roll into place with a weighted roller.
Boral recommends fastening of the black selvedge edge to the deck with roofing nails, nails & tin-tags or 1-inch diameter plastic or steel cap nails spaced 24-inch o.c. for slopes below 7:12 and 12-inch o.c. for slopes 7:12 and greater. Overlap successive courses the width of the black-selvedge area, minimum 3-inch.
Seal under end (vertical) laps using approved mastic, or use Joined and Folded Seam or Inverted Sheet Seam method detailed in Boral Roofing published installation instructions.
- 6.5.4 **Non-Tile Applications, to Base Sheet:**
Install ASTM D226, Type II felt in accordance with Code requirements.
Install Boral TileSeal 50^{HT} in accordance with Boral Roofing published installation instructions and Section 6.5.3, except end (vertical) laps, described below.
Apply SBS Mastic under all end (vertical) laps or any other laps where the self-adhering bituminous underside is in contact with the fabric top surface, rolling the interface into place with a weighted roller.
- 6.5.5 **Tile Applications:**
Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein, using the instructions noted above as a guideline. Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment.
Battens must be used for all tile installations atop Boral TileSeal 50^{HT}. Boral Roofing's Elevated Batten System™ or counter battens are required for roof pitches of 2 ½:12 to less than 4:12.
- 6.6 GatorSeal and StormSentry:**
- 6.6.1 Install GatorSeal and StormSentry in compliance with manufacturer's published installation instructions and the requirements for ASTM D1970 underlayments in FBC Sections 1507 for the type of prepared roof covering to be installed.
- 6.6.2 Do not use GatorSeal on roof pitches less than 2:12. Do not use StormSentry on roof pitches less than ½:12 while ensuring there is no possibility for ponding water on the surface of StormSentry.
- 6.6.3 **Non-Tile applications, Direct to Deck:**
Cut the membrane into manageable lengths, typically 10 to 12 ft. Align the membrane parallel to the roof edge, extending over by ¼-inch. Fold the membrane away from the edge onto itself. Remove the release sheet. Place the membrane with the exposed rubberized asphalt onto the deck, pressing firmly into place. Roll into place with a weighted roller.
Boral recommends fastening of the black selvedge edge to the deck with roofing nails, nails & tin-tags or 1-inch diameter plastic or steel cap nails spaced 24-inch o.c. for slopes below 7:12 and 12-inch o.c. for slopes 7:12 and greater. Overlap successive courses the width of the black-selvedge area, minimum 3-inch.
Seal end (vertical) laps using SBS Mastic under all side (vertical) laps or any other laps where the self-adhering bituminous underside is in contact with the granular or mineral top surface, rolling the interface into place with a weighted roller, or using the Inverted Sheet Seam detailed in Boral Roofing published installation instructions.

- 6.6.4 **Non-Tile Applications, to Base Sheet:**
Install ASTM D226, Type II felt in accordance with Code requirements or install Citadel Plus in accordance with Boral Roofing published installation instructions and Section 6.4.
Install GatorSeal or StormSentry over ASTM D226, Type II felt or Citadel Plus in accordance with Boral Roofing published installation instructions and Section 6.6.3 except end (vertical) laps, described below.
Apply SBS Mastic under all side (vertical) laps or any other laps where the self-adhering bituminous underside is in contact with the granular top surface, rolling the interface into place with a weighted roller.

- 6.6.5 **Tile Applications:**
Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein, using the instructions noted above as a guideline. Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment.
Battens must be used for all tile installations atop GatorSeal.

6.7 Boral TileSeal^{HT}:

- 6.7.1 Install Boral TileSeal^{HT} in compliance with manufacturer's published installation instructions and the requirements for ASTM D1970 underlayments in FBC Sections 1507 for the type of prepared roof covering to be installed.

- 6.7.2 Do not use Boral TileSeal^{HT} on roof pitches less than 2:12.

6.7.3 **Non-Tile Applications, Direct to Deck:**

For OSB substrate, prime with ASTM D41 primer and allow to dry prior to installation. Cut the membrane into manageable lengths, typically 10 to 12 ft. Align the membrane parallel to the roof edge, extending over by ¼-inch. Fold the membrane away from the edge onto itself. Remove the release sheet. Place the membrane with the exposed rubberized asphalt onto the deck, pressing firmly into place. Roll into place with a weighted roller.

Boral recommends fastening of the black selvage edge to the deck with roofing nails, nails & tin-tags or 1-inch diameter plastic or steel cap nails spaced 24-inch o.c. for slopes below 7:12 and 12-inch o.c. for slopes 7:12 and greater. Overlap successive courses the width of the black-selvage area, minimum 3-inch.

Seal under end (vertical) laps using approved mastic, or use Joined and Folded Seam or Inverted Sheet Seam method detailed in Boral Roofing published installation instructions.

6.7.4 **Non-Tile Applications, to Base Sheet:**

Install ASTM D226, Type II felt in accordance with Code requirements or install Citadel Plus in accordance with Boral Roofing published installation instructions and Section 6.4.

Install Boral TileSeal^{HT} in accordance with Boral Roofing published installation instructions and Section 6.7.3, except end (vertical) laps, described below.

Apply SBS Mastic under all end (vertical) laps or any other laps where the self-adhering bituminous underside is in contact with the fabric top surface, rolling the interface into place with a weighted roller.

6.7.5 **Tile Applications:**

Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein, using the instructions noted above as a guideline. Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment.

Battens must be used for all tile installations atop Boral TileSeal^{HT} with roof pitches of 2½ to less than 3:12. Boral Roofing's Elevated Batten System or counter battens are required.

Approved foam adhesive may be used for roof slopes 2:12 and greater.

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 manufacturer or the named QA entity for information on plants covered under Rule 61G20-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

UL, LLC. – QUA9625; (414) 248-6409; Karen.buchmann@us.ul.com

- END OF EVALUATION REPORT -



DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
2601 BLAIR STONE ROAD
TALLAHASSEE FL 32399-0783

(850) 487-1395



GOONEN, STEVEN GORDON SR
PREMIER DECK AND DOCK LLC
7657 POINTVIEW CIR
ORLANDO FL 32836-6338

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STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

CGC1512225 ISSUED 07/14/2016

CERTIFIED GENERAL CONTRACTOR
GOONEN, STEVEN GORDON SR
PREMIER DECK AND DOCK

IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date : AUG 31, 2018 L1507140001041

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

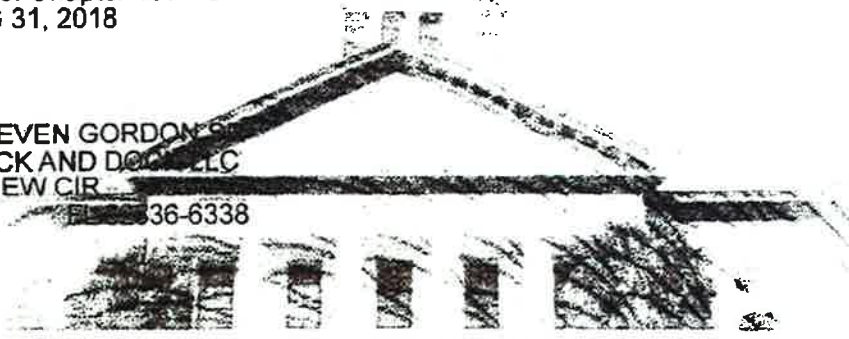
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER	
CGC1512225	



The GENERAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2018

GOONEN, STEVEN GORDON SR
PREMIER DECK AND DOCK LLC
7657 POINTVIEW CIR
ORLANDO FL 32836-6338





CERTIFICATE OF LIABILITY INSURANCE

Fax: (407)240-2222

DATE (MM/DD/YYYY)

10/04/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	Florida State Underwriters, Inc 950 S Winter Park Dr STE 310 Casselberry, FL 32707	CONTACT NAME: Sean Richardson	
		PHONE (A/C, No, Ext): (407)260-1046 FAX (A/C, No): (407)260-1275	
INSURED	Premier Deck & Dock LLC 7657 Pointview Circle Orlando, FL 32836	E-MAIL ADDRESS: sean@fsuinsurance.com	
		INSURER(S) AFFORDING COVERAGE	NAIC #
		INSURER A: Accident Insurance Co	
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES CERTIFICATE NUMBER: 00000000-0 REVISION NUMBER: 32

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			CPP0008101	04/01/2016	04/01/2017	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	<input type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB						EACH OCCURRENCE \$ AGGREGATE \$
	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION
City of Belle Isle Building Dept. 1600 Nela Ave. Belle Isle, FL 32859	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE (SEA)



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/4/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER FLORIDA STATE UNDERWRITE 950 S WINTER PARK DR #310 CASSELBERRY FL 327079999	CONTACT NAME: WILLIAM (SCOTT) S RICHARDSON PHONE (A/C, No, Ext): (407) 260-1046 E-MAIL ADDRESS: SCOTT@FSUIINSURANCE.COM	FAX (A/C, No): INSURER(S) AFFORDING COVERAGE NAIC #
	INSURED PREMIER DECK AND DOCK LLC 7657 POINTVIEW CIRCLE ORLANDO FL 32836 FEIN: 202786951	INSURER A : FWCJUA INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES

CERTIFICATE NUMBER: 1610040054

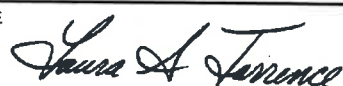
REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMPOP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	0758N960	6/12/2016	6/12/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L EACH ACCIDENT \$ 1,000,000.00 E.L DISEASE - EA EMPLOYEE \$ 1,000,000.00 E.L DISEASE - POLICY LIMIT \$ 1,000,000.00

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

MINIMUM PREMIUM POLICY**CERTIFICATE HOLDER****CANCELLATION**

City of Belle Isle 1600 Nela Ave Belle Isle FL 32809 Phone Number: (407) 851-7730	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other local authorities. This receipt is valid from October 1 through September 30 of receipt year. **Delinquent penalty is added October 1.**

2016 **EXPIRES** **9/30/2017** 1820-1171149
1820 UNLIC-DECK/DOCK INSTA \$30.00 1 EMPLOYEE

TOTAL TAX \$30.00
PREVIOUSLY PAID \$30.00
TOTAL DUE \$0.00

PRUNTY CHRISTOPHER F

PREMIER DECK AND DOCK
14874 SPEER LAKE DR
WINTER GARDEN FL 34787

14874 SPEER LAKE DR (MOBILE)
U - WINTER GARDEN, 34787

PAID: \$30.00 0098-00757631 9/27/2016

Scott Randolph, Tax Collector Local Business Tax Receipt Orange County, Florida

local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other local authorities. This receipt is valid from October 1 through September 30 of receipt year. **Delinquent penalty is added October 1.**

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TOTAL DUE \$0.00



PRUNTY CHRISTOPHER F

PREMIER DECK AND DOCK
14874 SPEER LAKE DR
WINTER GARDEN FL 34787

14874 SPEER LAKE DR (MOBILE)
U - WINTER GARDEN, 34787

PAID: \$30.00 0098-00757631 9/27/2016

This receipt is official when validated by the Tax Collector.