



City of Belle Isle

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

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: ReROOF - 3600 sf asphalt shingles

Comments: None

Project Information

Address: 5025 Duban Ave , Belle Isle, FL 32812
Parcel ID: 17-23-30-4384-02-570
Property Owner: Drapcho, Donald
Phone Number: none

Company Name: Gold Key International, Inc.
Contractor Name: Hewitt, Jeffrey
License Number: CCC1329157
Address: 6021 S. Orange Avenue, Orlando, FL 32809
Phone Number: 407-851-0680

Permit Number: 2017-04-097
Date of Application: **04/27/2017**
Date Permit Issued: **04/28/2017**

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 \$30.00

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 \$109.00

Date Paid 4-28-17

CC or Check # VISA 0916

Amount Paid 109.00

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

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.

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com>
login ID = cobi@universalengineering.com password = universall3



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
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RECEIVED
APR 26 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.

2017-04-29

ROOF PERMIT NUMBER

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

Project Address 5025 DUBAN AVE Belle Isle, FL 32809 X 32812

Property Owner DONALD DRAPCHO Phone _____

Property Owner's Mailing Address 5025 DUBAN AVE City ORLANDO

State FL Zip Code 32812 Parcel Id Number: 17-23-30-4384-02-570

REQUIRED! To obtain this information, please visit <https://www.opafll.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

15 = 16800

Please indicate the nature of work by completing the information below:
Roof Square Footage: 36 Number of Stories: 1 Job Valuation: \$ 9380

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 [Signature] LICENSE # 000329181
LICENSE HOLDER NAME JEFFREY PERMIT COMPANY NAME GAD KEY
Street Address 4814 S. ORANGE AVE State FL Zip Code 32806 Phone Number 407-851-0680
City ORLANDO
Email Address Jeff@goldkeyroofing.com

Building Official: [Signature] Date 4-28-17
Verified Contractor's Licenses & Insurance are on file [Signature] Date 4-27-17

Zoning Fee \$ 30.-
Permit Fee \$ 75.-
Review Fee \$ 0
3% Florida Surcharge \$ 4.-
Total Permit Fee \$ 109.-

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.

15T 1K 25
10X5 20
75

2017-04-097

Permit Number: _____
Folio/Parcel ID #: 17-23-30-4384-07-570
Prepared by: Gold Key
4874 S Orange Ave
Orlando, FL 32806
Return to: Gold Key
4874 S Orange Ave
Orlando, FL 32806



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)
LAKE CONNAN ESTATES SECTION 5 Y172 LOT 257
- General description of improvement
ReRoof
- Owner information or Lessee information if the Lessee contracted for the improvement
Name DONALD DKARCHO
Address 5025 DUBAN AVE ORLANDO FL 32812
Interest in Property OWNER
Name and address of fee simple titleholder (if different from Owner listed above)
Name N/A
Address N/A
- Contractor
Name Gold Key Roofing Telephone Number 407-851-0680
Address 4874 S Orange Ave Orlando, FL 32806
- Surety (if applicable, a copy of the payment bond is attached)
Name N/A Telephone Number N/A
Address N/A Amount of Bond \$ N/A
- Lender
Name N/A Telephone Number N/A
Address N/A
- 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 N/A Telephone Number N/A
Address N/A
- 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 N/A Telephone Number N/A
Address N/A
- 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) N/A



Stamp: SEARCHED, SERIALIZED, INDEXED, FILED, APR 18 2017, ORANGE COUNTY, FLORIDA

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.

X Donald D Karcho Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager
Owner Donald D Karcho Signatory's Title/Office
Name of party on behalf of whom instrument was executed HIMSELF name of person

The foregoing instrument was acknowledged before me this 12 day of 4/17 by DONALD DKARCHO
as HIMSELF for HIMSELF
Type of authority, e.g., officer, trustee, attorney in fact
Jessica N Girak Signature of Notary Public - State of Florida
Print, type, or stamp commissioned name of Notary Public JESSICAN GIRAK



Personally Known OR Produced ID
Type of ID Produced PROD



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

PERMIT # 2017-04-597

DATE: _____ PROJECT ADDRESS 5025 DUBAN AVE 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							
Sliding				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS							
Single/Dbf Hung				Asphalt Shingles	<u>CECKSTAINTEED ASPHALT</u>	<u>FL5H44-R8</u>	
Horizontal Slider				Non Struct. Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Other			
Skylights				<u>UNDERLAY- VENT</u>	<u>INTERBANK TITANIUM</u>	<u>FL1002-R3</u>	
Other					<u>OTHER</u>		
STRUCTURAL COMPONENTS							
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 [Signature] Date _____

FLORIDA DEPARTMENT OF
Business & Professional Regulation

Florida Department of
Business & Professional Regulation

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OFFICE OF THE SECRETARY



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Product Approval
USER: Public User

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

FL # FL5444-R8
Application Type Revision
Code Version 2014
Application Status Approved

Comments
Archived

Product Manufacturer
Address/Phone/Email

CertainTeed Corporation-Roofing
18 Moores Road
Malvern, PA 19355
(610) 651-5847
mark.d.harner@saint-gobain.com

Authorized Signature

Mark Harner
mark.d.harner@saint-gobain.com

Technical Representative
Address/Phone/Email

Mark D. Harner
18 Moores Road
Malvern, PA 19355
(610) 651-5847
Mark.D.Harner@saint-gobain.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Roofing
Asphalt Shingles

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
✓ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Robert Nieminen
PE-59166
UL LLC
07/03/2017
John W. Knezevich, PE
✓ Validation Checklist - Hardcopy Received

Florida License
Quality Assurance Entity
Quality Assurance Contract Expiration Date
Validated By

Certificate of Independence

FL5444_R8_COI_2015_01_COI_Nieminen.pdf

Referenced Standard and Year (of Standard)

Standard
ASTM D3161, Class F
ASTM D3462
ASTM D7158, Class H

Year
2009
2009
2008

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 03/16/2015
 Date Validated 03/23/2015
 Date Pending FBC Approval 03/26/2015
 Date Approved 06/23/2015

Summary of Products

FL #	Model, Number or Name	Description
5444.1	CertainTeed Asphalt Roofing Shingles	3-tab, 4-tab, strip (no-cut-outs), laminated and architectural asphalt roof shingles
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 FL5444_R8_IL_2015_03_FINAL_ER_CERTAINTCEED_Aspphalt Shingle_FL5444-R8.pdf Verified By: Robert Nieminen, PE PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5444_R8_AE_2015_03_FINAL_ER_CERTAINTCEED_Aspphalt Shingle_FL5444-R8.pdf Created by Independent Third Party: Yes		



[Contact Us](#) :: [1940 North Monroe Street, Tallahassee, FL 32399](#) Phone: [850-487-1824](#)

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Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S., must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:





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

CertainTeed Corporation
18 Moores Road
Malvern, PA 19355

Evaluation Report 3532.09.05-R9
FL5444-R8
Date of Issuance: 09/22/2005
Revision 9: 03/06/2015

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: CertainTeed Asphalt Roofing Shingles.

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and FBC 1507.2.7.1.

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.

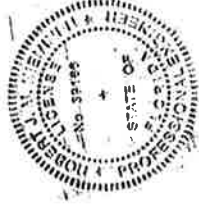
ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 9.

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 03/06/2015. 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:

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 SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles

Compliance Statement: CertainTeed Asphalt Roofing Shingles, as produced by CertainTeed Corporation, have demonstrated compliance with the following sections of the Florida Building Code and Florida Building Code, Residential Volume 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>
1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2009
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161, Class F	2009
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158, Class H	2008

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
UL (TST 1740)	ASTM D3161	94NK9632	05/15/1998
UL (TST 1740)	ASTM D3161	99NK26506	11/23/1999
UL (TST 1740)	ASTM D3161	03CA12702	05/27/2003
UL (TST 1740)	ASTM D3161	03CA12702	06/16/2003
UL (TST 1740)	ASTM D3161	03NK29847	10/03/2003
UL (TST 1740)	ASTM D3161	04CA11329	05/24/2004
UL (TST 1740)	ASTM D3161	04CA32986	12/03/2004
UL (TST 1740)	ASTM D3161	05NK07049	04/15/2005
UL (TST 1740)	ASTM D3161	05NK16778	05/12/2005
UL (TST 1740)	ASTM D3161	05CA16778	05/12/2005
UL (TST 1740)	ASTM D3161	05NK14836	05/22/2005
UL (TST 1740)	ASTM D3161	05NK22800	06/22/2005
UL (TST 1740)	ASTM D3462	R684	09/21/2005
UL (TST 1740)	ASTM D7158	05NK08037	06/28/2006
UL (TST 1740)	ASTM D3161 & D3462	09CA28873	07/23/2009
UL (TST 1740)	ASTM D3462	10CA41303	10/07/2010
UL (TST 1740)	ASTM D3161	10CA41303	10/08/2010
UL (TST 1740)	ASTM D7158	10CA41303	10/27/2010
UL (TST 1740)	ASTM D3161 & D3462	10CA44960	11/11/2010
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	13CA32897	11/21/2013
UL LLC (TST 9628)	ASTM D3161, D3462	TFWZ.R684	04/22/2014
UL LLC (QUA 9625)	ASTM D7158	TGAH.R684	04/22/2014
	Quality Control	Service Confirmation	Exp. 07/03/2017

4. PRODUCT DESCRIPTION:

- 4.1 CT20™, XT™ 25, XT™ 30 and XT™ 30 IR are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.2 Carriage House Shangle®, Centennial Slate™, Grand Manor Shangle®, Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris and Landmark™ Solaris IR are fiberglass reinforced, laminated asphalt roof shingles.
- 4.3 Presidential Shake™, Presidential Shake™ IR and Presidential Shake TL™ are fiberglass reinforced, architectural asphalt roof shingles.
- 4.4 Hatteras™, Highland Slate™ and Highland Slate™ IR are fiberglass reinforced, 4-tab asphalt roof shingles.
- 4.5 Patriot™ is a fiberglass reinforced asphalt roof strip-shingle (with no cut-outs) providing a laminated appearance through an intermittent shadow line with contrasting blend drops for color definition.
- 4.6 Presidential Accessory, Accessory for Hatteras, Shangle Ridge™, Shadow Ridge™, Cedar Crest™ and Cedar Crest™ IR are fiberglass reinforced accessory shingles for hip and ridge installation.
- 4.7 Any of the above listed shingles may be produced in AR (algae resistant) versions.

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 Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 Wind Classification:
- 5.4.1 All shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F and/or ASTM D7158, Class H, indicating the shingles are acceptable for us in all wind zones up to $V_{asd} = 150$ mph ($V_{ult} = 194$ mph). Refer to Section 6 for installation requirements to meet this wind rating.
- 5.4.2 Presidential Accessory, Accessory for Hatteras, Shangle Ridge, Shadow Ridge and Cedar Crest hip & ridge shingles have been evaluated in accordance with ASTM D3161, Class F when BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant, applied as specified in manufacturer's application instructions, indicating the shingles are acceptable for us in all wind zones up to $V_{asd} = 150$ mph ($V_{ult} = 194$ mph).
- 5.4.3 Classification by ASTM D7158 applies to exposure category B or C and a building height of 60 feet or less. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.
- 5.4.3.1 Analysis in accordance with ASTM D7158 indicates the measured uplift resistance (R_T) for the CertainTeed asphalt roofing shingles listed in Section 4.1 through 4.5 exceeds the calculated uplift force (F_T) at a maximum design wind speed of $V_{asd} = 150$ mph ($V_{ult} = 194$ mph) for residential buildings located in Exposure D conditions with no topographical variations (flat terrain) having a mean roof height less than or equal to 60 feet.
- The shingles are permissible under Code for installation in these conditions using the installation procedures detailed in this Evaluation Report and CertainTeed minimum requirements, subject to minimum codified fastening requirements established within any local jurisdiction, which shall take precedence.
- 5.5 All products in the roof assembly shall have quality assurance audits in accordance with the Florida Building Code and F.A.C. Rule 61G20-3.

6. INSTALLATION:

- 6.1 Roof deck, slope, underlayment and fasteners shall comply with FBC 1507.2 / R905.2 and the shingle manufacturer's minimum requirements.
- 6.1.1 Underlayment shall be acceptable to CertainTeed Corporation and shall hold current Florida Statewide Product Approval, or be Locally Approved per Rule 61G20-3, per FBC Sections 1507.2.3, 1507.2.4 or R905.2.3.
- 6.2 Installation of asphalt shingles shall comply with the manufacturer's current published instructions, using minimum four (4) nails per shingle in accordance with FBC 1507.2.7 or Section R905.2.6 and the minimum requirements herein.
- 6.2.1 Fasteners shall be in accordance with manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.
- 6.2.2 Where the roof slope exceeds 21 units vertical in 12 units horizontal, use the "Steep Slope" directions.
- 6.3 CertainTeed asphalt shingles are acceptable for use in reroof (tear-off) or recover applications, subject to the limitations set forth in FBC Section 1510 and CertainTeed published installation instructions.

6.3.1

CT20™, XT™ 25, XT™ 30, XT™ 30 JR:

LOW AND STANDARD SLOPE

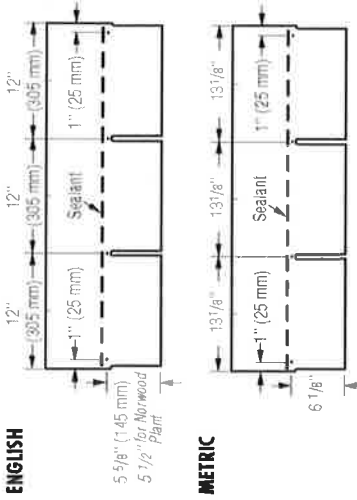


Figure 11-3: Use four nails for every full shingle.

6.3.1.1

Hip & Ridge: Cut Shingles

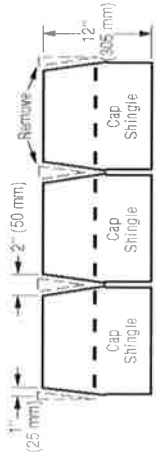
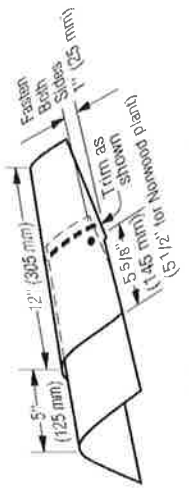


Figure 11-24: Cut tabs, then trim back to make cap shingles (English dimensions shown).

Figure 11-25: Installation of caps along the hips and ridges.



Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant, in accordance with manufacturer's instructions.

6.3.2

Carriage House Shingle®, Centennial Slate™ and Grand Manor Shingle®:

LOW AND STANDARD SLOPE

Use five nails for every full Shingle.

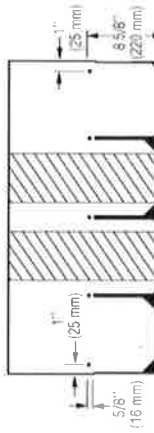


Figure 17-1: Use five nails for every full Grand Manor Shingle, Carriage House Shingle, or Centennial Slate.

STEEP SLOPE

Use seven nails and three spots of asphalt roofing cement for every full Grand Manor Shingle. Use five nails and three spots of asphalt roofing cement for every full Carriage House Shingle and Centennial Slate. Apply asphalt roofing cement 1" (25 mm) from edge of shingle (Figure 17-5). Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

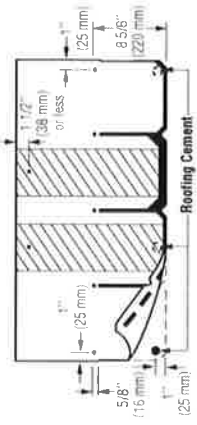
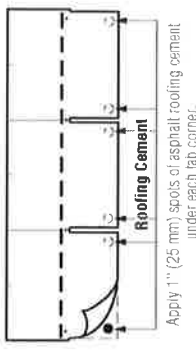


Figure 17-5: When installing Grand Manor Shingles on steep slopes, use seven nails and three spots of asphalt roofing cement.

STEEP SLOPE

Use four nails and six spots of asphalt roofing cement* for every full shingle (Figure 11-4). Asphalt roofing cement meeting ASTM D4586 Type II is suggested.



Apply 1" (25 mm) spots of asphalt roofing cement under each tab corner.

Figure 11-4: Use four nails and six spots of asphalt cement on steep slopes.

*CAUTION: Excessive use of roofing cement can cause shingles to blister.

6.3.2.1

Hip & Ridge: Shangle® Ridge

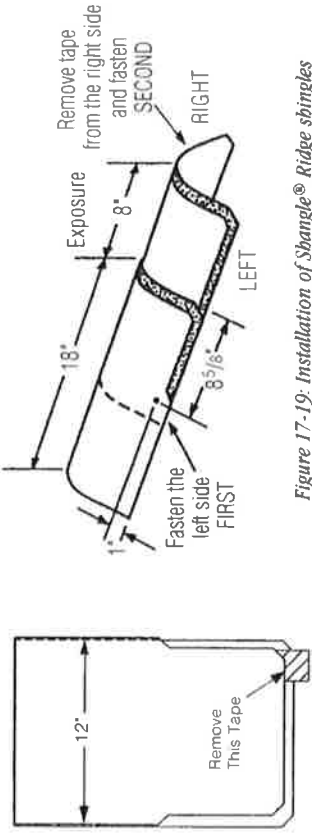


Figure 17-18. Shangle® Ridge.

Figure 17-19: Installation of Shangle® Ridge shingles on hips and ridges.

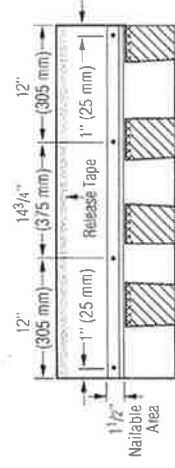
Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

6.3.3

Landmark™, Landmark™ IR, Landmark™ Pro (formerly Landmark™ Plus), Landmark™ Premium, Landmark™ TL, Landmark™ Solaris, Landmark™ Solaris IR:

LOW AND STANDARD SLOPE

METRIC DIMENSIONS



LANDMARK TL

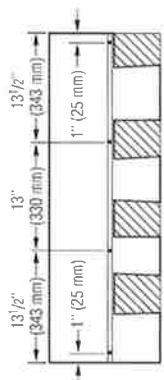
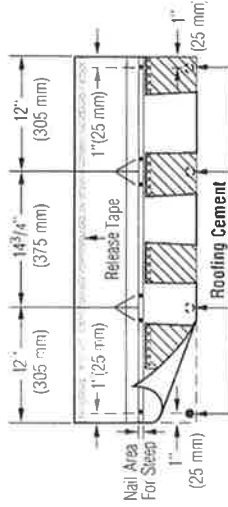


Figure 13-4. Use four nails for even, full shingle.

STEEP SLOPE

Use six nails and four spots of asphalt roofing cement for every full laminated shingle. See below: Asphalt roofing cement should meet ASTM D4586 Type II. Apply 1" spots of asphalt roofing cement under each corner and at about 12" to 13" in from each edge.

METRIC DIMENSIONS



LANDMARK TL

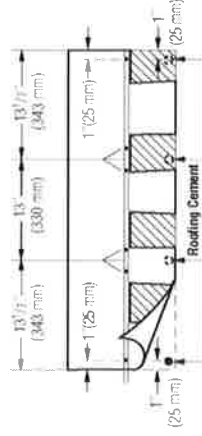


Figure 13-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

6.3.3.1

Hip & Ridge, Option 1: Shadow Ridge™

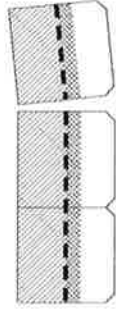


Figure 13-16: Shadow Ridge accessory shingles detach easily from three-piece units to make 72 individual cap pieces.

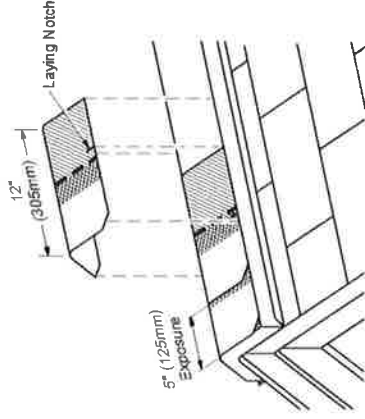
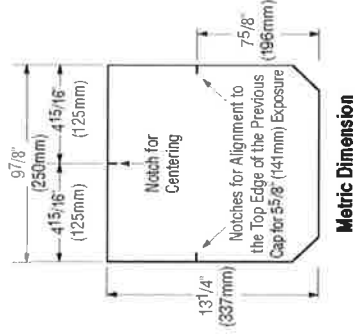
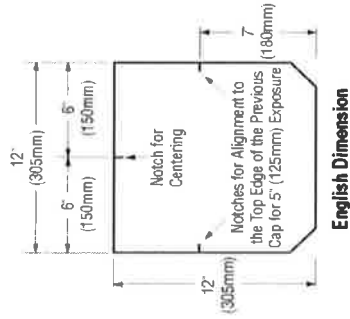


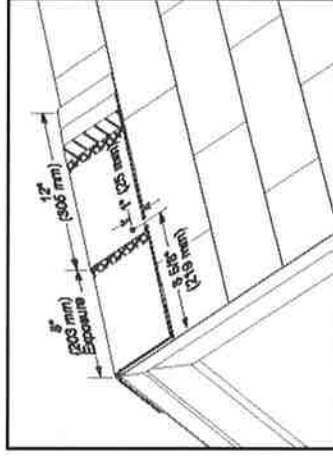
Figure 13-20: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

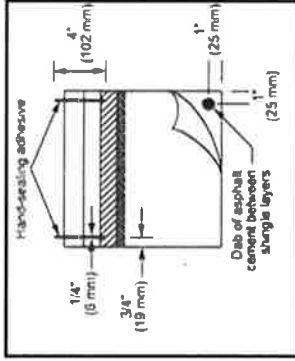
6.3.3.2

Hip & Ridge, Option 2: Cedar Crest™, Cedar Crest™ IR

Use two fasteners per shingle. For the starter shingle, place fastener 1-inch from each side edge and about 2-inch up from the starter shingle's exposed butt edge. For each full Cedar Crest shingle, place fasteners 8-5/8-inch up from its exposed butt edge and 1-inch from each side edge.



Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant to hand-seal Cedar Crest shingles. Apply NP 1 or PL adhesive from the middle of the shingle's raised overlay on the top piece and extending approximately 4-inch along the sides of the headlap along a line $\frac{3}{4}$ to 1-inch from each side of the shingle's headlap. Immediately align and apply the overlying shingle, gently pressing tab sides into the adhesive, and install nails. To secure the other side, apply a 1-inch diameter spot of NP 1 or PL adhesive between the shingle layers.



6.3.4

Presidential Shake™, Presidential Shake™ IR, Presidential Shake TL™:

LOW AND STANDARD SLOPE:

For low and standard slopes, use five nails for each full Presidential shingle as shown below.

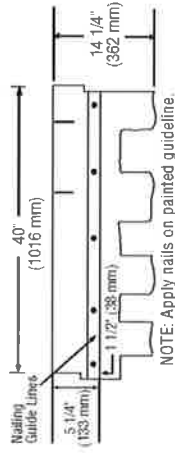


Figure 16-6: Fastening Presidential and Presidential TL Shingles on low and standard slopes.

STEEP SLOPE:

For steep slopes, use nine nails for each full Presidential shingle and apply 1" diameter spots of asphalt roofing cement under each shingle tab. After applying 5 nails in between the nailing guide lines, apply 4 nails 1" above tab cutouts making certain tabs of overlying shingle cover nails.

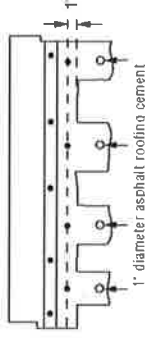


Figure 16-7: Fastening Presidential and Presidential TL Shingles on steep slopes.

6.3.4.1

Hip & Ridge, Option 1: Presidential Accessory

PRESIDENTIAL ACCESSORY

Presidential accessory shingles can be used for covering hips and ridges. Apply shingles up to the ridge (expose no more than 7" from the bottom edge of the "tooth." Fasten each accessory with two fasteners. The fasteners must be 1 $\frac{3}{4}$ " long or longer, so they penetrate either $\frac{3}{4}$ " into the deck or completely through the deck. Presidential accessory comes in two different sizes: Accessory produced in Birmingham, AL is 12" x 12"; Portland, OR produces 9 $\frac{7}{8}$ " x 15 $\frac{1}{4}$ " accessory.

Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

6.3.4.2

Hip & Ridge, Option 2: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR hip and ridge shingles.

6.3.5

Hatteras™:

LOW, STANDARD AND STEEP SLOPE:



Figure 15-3: Fastening Hatteras Shingles on Low and Standard Slopes

For low and standard slopes, use five nails for each full Hatteras shingle as shown above.

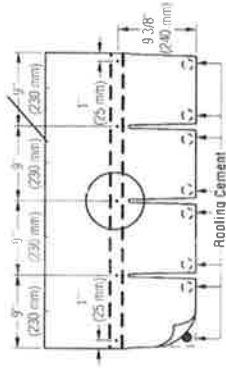


Figure 15-4: Fastening Hatteras Shingles on Steep Slopes

For steep slopes, use five nails and eight spots of asphalt roofing cement for each full Hatteras shingle as shown above. Apply 1" (25mm) diameter spots of roofing cement (ASTM D-586 Type II suggested) under each tab corner. Press shingle into place; do not expose cement.

CAUTION: Too much roofing cement can cause shingles to blister.

6.3.5.1

Hip & Ridge, Option 1: Accessory for Hatteras

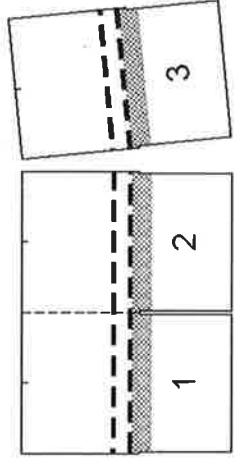
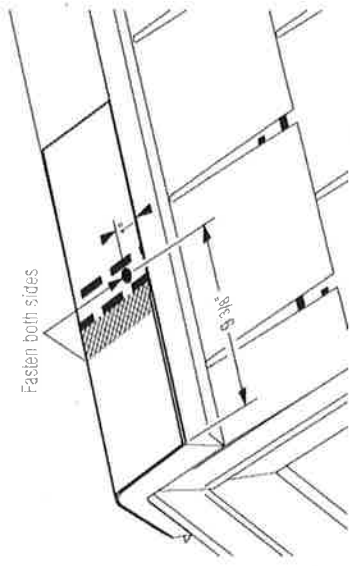
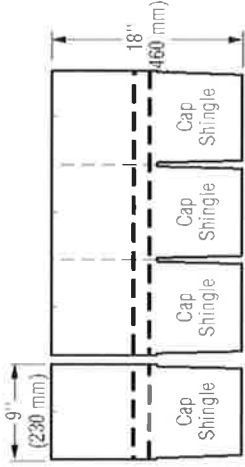


Figure 15-14: 18 three-piece units separate to make 54 Hatteras Accessory shingles.



6.3.5.2

Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.
Hip & Ridge, Option 2: Cut Hatteras Shingles



Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

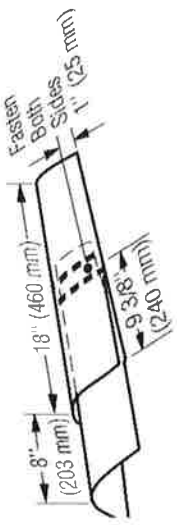


Figure 15-20: Cut Hatteras shingles to make cover cap.

Figure 15-21: Installation of caps along hips and ridges.

Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

6.3.6

Highland Slate™, Highland Slate™ IR:

LOW AND STANDARD SLOPE:

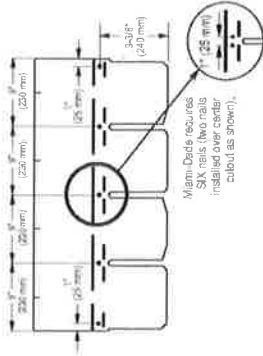


Figure 11-3: Use FIVE nails for every Highland Slate shingle.

STEEP SLOPE:

Use FIVE nails and EIGHT spots of asphalt roofing cement* for each full Highland Slate shingle. For Miami-Dade, SIX nails are required. Apply 1" diameter spots of asphalt roofing cement under each lab corner. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

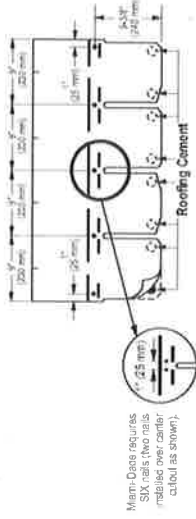


Figure 11-3a: Use FIVE nails and eight spots of asphalt roofing cement under each lab corner.

6.3.6.1

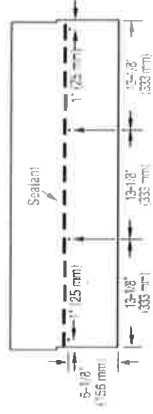
Hip & Ridge, Option 1: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR or Shangle Ridge™ hip and ridge shingles.

6.3.7

Patriot™:

LOW AND STANDARD SLOPE

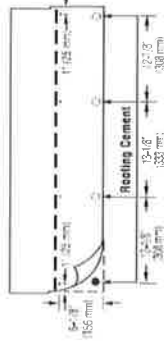
Use FOUR nails for every full shingle located as shown below.



STEEP SLOPE

Use FOUR nails and four spots of asphalt roofing cement for every full shingle as shown below. Asphalt roofing cement meeting ASTM D4586 Type II is suggested. Apply 1" (25 mm) spots of asphalt roofing cement as shown.

CAUTION: Excessive use of roofing cement can cause shingles to blister.



Hip & Ridge: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR, Shadow Ridge™ or Shangle Ridge™ hip and ridge shingles.

7. LABELING:

- 7.1 Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.
- 7.2 Asphalt shingle wrappers shall indicate compliance with one of the required classifications detailed in FBC Table 1507.2.7.1 / R905.2.6.1.

8. BUILDING PERMIT REQUIREMENTS:

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

9. MANUFACTURING PLANTS:

Contact the named QA entity for information on which plants produce products covered by Florida Rule 61G20-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

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

- END OF EVALUATION REPORT -

FLORIDA DEPARTMENT OF Business & Professional Regulation

Florida Department of
**Business & Professional
Regulation**
License efficiently. Regulate fairly.

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SECRETARY

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Product Approval
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Submit Surcharge Stats & Facts Publications FBC Staff BCTIS Site Map Links Search

FL # **FL11602-R3**
Application Type **Revision**
Code Version **2014**
Application Status **Approved**



Comments
Archived

Product Manufacturer
Address/Phone/Email

InterWrap, Inc.
32923 Mission Way
Mission, NON-US 00000
(551) 574-2939
mtupas@interwrap.com

Authorized Signature

Eduardo Lozano
elozano@interwrap.com

Technical Representative
Address/Phone/Email

Eduardo Lozano
32923 Mission Way
Mission, NON-US 00000
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elozano@interwrap.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Roofing
Underlayments

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
✓ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Robert Nieminen

Florida License

PE-59166

Quality Assurance Entity

Intertek Testing Services NA Inc. - ETL/Warnock Hersey

Quality Assurance Contract Expiration Date

11/19/2015

Validated By

John W. Knezevich, PE

✓ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL11602_R3_COI_2015_01_COI_Nieminen.pdf](#)

Referenced Standard and Year (of Standard)

Equivalence of Product Standards
Certified By

Sections from the Code

1507.2.3
1507.2.4
1507.2.8
1507.2.9.2
1507.3.3

1507.4.5.1
 1507.4.5.2
 1507.5.3
 1507.7.3
 1507.8.3
 1507.9.3
 1523.6.5.2.1

Product Approval Method

Method 2 Option B

Date Submitted 05/01/2015
 Date Validated 05/01/2015
 Date Pending FBC Approval 05/10/2015
 Date Approved 06/22/2015

Summary of Products

FL #	Model, Number or Name	Description
11602.1	Titanium Roof Underlayments	Synthetic sheet-type 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/-45 Other: 1.) The design pressure noted herein pertains to use of a specific underlayment system beneath foam-on tile systems. Refer to ER Section 5.6.3 for details. 2.) Refer to ER Sections 5 and 6 for other Limits of Use.		
Installation Instructions FL11602_R3_II_2015_05_FINAL_ER_INTERWRAP_FL11602-R3.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL11602_R3_AE_2015_05_FINAL_ER_INTERWRAP_FL11602-R3.pdf Created by Independent Third Party: Yes		

Contact Us :: 1940 North Monroe Street, Tallahassee FL 32399 Phone: 850-487-1924

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Product Approval Accepts:





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

Interwrap, Inc.
32923 Mission Way
Mission, BC V2V-6E4
Canada

Evaluation Report I11980.11.08-R3
FL11602-R3
Date of Issuance: 11/03/2008
Revision 3: 05/01/2015

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: Titanium™ 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.

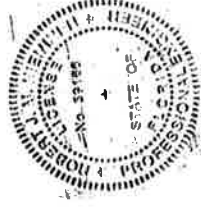
ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 05/01/2015. 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:

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: Titanium™ Roof Underlayments, as produced by Interwrap, Inc., have demonstrated compliance with the intent of the following sections of the Florida Building Code through testing in accordance with applicable sections 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>
1507.2.3, 1507.3.3, 1507.5.3, 1507.7.3, 1507.8, 1507.8.3, 1507.9.3	Unrolling, Breaking Strength, Pliability, Loss on Heating	ASTM D226	2006
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, 1507.7.3, 1507.7.3.2	Thickness, Load-Strain, Adhesion, Thermal Stability, Flexibility, Tear, Permeance	ASTM D1970	2009
1507.3.3	Installation Practice	FRSA/TRI April 2012 (04-12)	2012
1523.6.5.2.1	Physical Properties (2-ply system)	TAS 103	1995
TAS 110	Accelerated Weathering	TAS 110	2000

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	Physical Properties	I15010.04.09	04/29/2009
ERD (TST6049)	Physical Properties	I15010.05.10	05/14/2010
ERD (TST6049)	Physical Properties	I35520.06.11	06/15/2011
ERD (TST6049)	Wind Uplift	I35520.08.11-1	08/12/2011
ITS (TST1509)	Physical Properties	3146738COQ-003A	03/28/2008
ITS (TST1509)	Physical Properties	3146738COQ-003B	03/28/2008
ITS (QUA1673)	Physical Properties	3126617COQ-005	10/31/2007
ITS (QUA1673)	Quality Control	ITS Listings	Current
	Quality Control	Inspection Report	11/19/2014

4. PRODUCT DESCRIPTION:

4.1 Self-Adhering Underlayments:

4.1.1 Titanium™ PSU-30 is an unreinforced polymer modified bitumen material adhered to the underside of a polymer-coated, synthetic woven sheet. The underside is backed with a release film. Unit weight 24 lbs/square.

4.2 Mechanically Fastened Underlayments:

4.2.1 Titanium™ UDL-25 is a synthetic sheet-type underlayment comprised of a woven core coated on one side with a polymer coating. Unit weight 2.5 lbs/square.

4.2.2 Titanium™ UDL-25 PLUS is a synthetic sheet-type underlayment comprised of a woven core coated on one side with a polymer coating. Unit weight 2.9 lbs/square.

4.2.3 Titanium™ UDL-30 is a synthetic sheet-type underlayment comprised of a woven core coated on both sides with a polymer coating. Unit weight 4.0 lbs/square.

4.2.4 Titanium™ UDL-50 is a synthetic sheet-type underlayment comprised of a woven core coated on both sides with a polymer coating. Unit weight 4.7 lbs/square.

4.2.5 Titanium™ UDL-TT is a synthetic sheet-type underlayment comprised of a woven core coated on one side with a polymer coating. Unit weight 2.9 lbs/square

4.2.6 Titanium™ UDL-TF is a synthetic sheet-type underlayment comprised of a woven core coated on both sides with a polymer coating. Unit weight 2.9 lbs/square.

4.2.7 UDL-TTMC300 is a synthetic sheet-type underlayment comprised of a woven core coated on both sides with a polymer coating. Unit weight 3.2 lbs/square.

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 report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 Titanium™ 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:

Table 1: Roof Cover Options

Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate
PSU-30	Yes	Yes	Yes (See 5.5.1)	Yes	Yes	Yes
UDL-25	Yes	No	No	Yes	Yes	Yes
UDL-25 PLUS	Yes	Yes (base layer in 2-ply system)	Yes (base layer in 2-ply system)	Yes	Yes	Yes
UDL-30	Yes	Yes (base layer in 2-ply system)	Yes (base layer in 2-ply system)	Yes	Yes	Yes
UDL-50	Yes	No	No	Yes	Yes	Yes
UDL-TT	Yes	No	No	Yes	Yes	Yes
UDL-TF	Yes	No	No	Yes	Yes	Yes
†UDL-TTMC300	Yes	No	No	Yes	Yes	Yes

† Private Labeled

- 5.5.1 "Foam-On Tile" is limited to use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 (FL6332) or Dow TILE BOND™ Roof Tile Adhesive (FL717) applications unless tensile adhesion / long term aging data from an accredited testing laboratory is provided.
- 5.6 Allowable Substrates: Titanium PSU-30:
- 5.6.1 Direct-Bond to Deck:
- New untreated plywood;
 - Existing untreated plywood, primed as needed with D41 primer to achieve bond.
- 5.6.2 Bond to Mechanically Attached Base Sheet:
- ASTM D226, Type I or II felt.
 - Titanium UDL-25 PLUS, UDL-30 (primed with D41 primer) or UDL-30 (inverted).
- 5.6.3 Wind Resistance for 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 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.
- 5.6.3.1 Maximum Design Pressure = -45 psf.
- Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of AHJ.
- Primer: (Optional) ASTM D41
- Underlayment: Titanium PSU-30, self-adhered
- Exterior Research and Design, LLC.**
Certificate of Authorization #9503
- Evaluation Report 111980.11.08-R3
 FL11602-R3
 Revision 3: 05/01/2015
 Page 3 of 6

5.6.3.2 Maximum Design Pressure = -30 psf*

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of AHJ.
Base Sheet: Titanium UDL-25 PLUS or UDL-30 (inverted)
Fasteners: Mechanically attached with 12 ga. annular ring shank nails having not less than 20 rings per inch, heads not less than 3/8 inch diameter and length sufficient to penetrate through the thickness of deck not less than 3/16-inch with min. 32 ga., 1-5/8" diameter tin caps
Spacing: 6-inch o.c. at 4-inch wide side laps and 12-inch o.c. at three (3), equally spaced center rows.
Primer: ASTM D41 primer required at all tin-caps.
Underlayment: Titanium PSU 30, self-adhered

5.6.3.3 Maximum Design Pressure = -30 psf*

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of AHJ.
Base Sheet: Titanium UDL-30 (printed side up)
Fasteners: Mechanically attached with 12 ga. annular ring shank nails having not less than 20 rings per inch, heads not less than 3/8 inch diameter and length sufficient to penetrate through the thickness of deck not less than 3/16-inch with min. 32 ga., 1-5/8" diameter tin caps.
Spacing: 6-inch o.c. at 4-inch wide side laps and 12-inch o.c. at three (3), equally spaced center rows.
Primer: ASTM D41 primer required over printed side of UDL-30.
Underlayment: Titanium PSU 30, self-adhered

5.6.3.4 Maximum Design Pressure = -45 psf*

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of AHJ.
Base Sheet: Titanium UDL-25 PLUS or UDL-30 (inverted)
Fasteners: Mechanically attached with 12 ga. annular ring shank nails having not less than 20 rings per inch, heads not less than 3/8 inch diameter and length sufficient to penetrate through the thickness of deck not less than 3/16-inch with min. 32 ga., 1-5/8" diameter tin caps
Spacing: 6-inch o.c. at 4-inch wide side laps and 8-inch o.c. at three (3), equally spaced center rows.
Primer: ASTM D41 primer required at all tin-caps.
Underlayment: Titanium PSU 30, self-adhered

5.6.3.5 Maximum Design Pressure = -45 psf*

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of AHJ.
Base Sheet: Titanium UDL-30 (printed side up)
Fasteners: Mechanically attached with 12 ga. annular ring shank nails having not less than 20 rings per inch, heads not less than 3/8 inch diameter and length sufficient to penetrate through the thickness of deck not less than 3/16-inch with min. 32 ga., 1-5/8" diameter tin caps.
Spacing: 6-inch o.c. at 4-inch wide side laps and 8-inch o.c. at three (3), equally spaced center rows.
Primer: ASTM D41 primer required over printed side of UDL-30.
Underlayment: Titanium PSU 30, self-adhered

5.6.3.6 For mechanically attached base sheet in a 2-ply system, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FRSA/TRI April 2012 (04-12), Appendix A, Table 1A or FBC 1609. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are RAS 117, FM LPDS 1-29 and ANSI/SPRI WDI. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements

5.7 Exposure Limitations:

Titanium UDL-25, UDL-25 PLUS, UDL-30, UDL-50, UDL-TT or UDL-TF shall not be left exposed for longer than 30-days.
Titanium PSU-30 shall not be left exposed for longer than 90-days.
UDL-TTMC300 not be left exposed for longer than 180-days.

6. INSTALLATION:

6.1 Titanium Roof Underlayments shall be installed in accordance with Interwrap published installation requirements 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 Titanium™ UDL-25, UDL-25 PLUS, UDL-30, UDL-50, UDL-TT, UDL-TF and (Private Labeled) UDL-TTMC300:

6.3.1 Install in compliance with manufacturer's published installation instructions and the requirements for ASTM D226, Type I and II underlayments in FBC Sections 1507 for the type of prepared roof covering to be installed.

6.3.2 Fasteners:

Mechanical attachment of Titanium UDL-25, UDL-25 PLUS and UDL-30 is limited to ring shank roofing nails with minimum 1-inch diameter plastic caps.

Mechanical attachment of UDL-50, UDL-TT, UDL-TF and (Private Labeled) UDL-TTMC300 is limited to ring shank roofing nails with minimum 3/8-inch diameter heads; ring shank roofing nails with minimum 1-inch diameter plastic caps; screws and plates; or plastic cap staples.

6.3.3 Slopes of 4:12 or greater:

End (vertical) laps shall be minimum 6-inches and side (horizontal) laps shall be minimum 4-inches.

Minimum attachment shall be 12-inches o.c. vertically and 24-inches o.c. horizontally in accordance with the surface markings on the exposed face of the underlayment. When batten systems are to be installed atop the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens.

6.3.4 Slopes of 2:12 to less than 4:12:

Double layer application; begin by fastening a 25-inch wide strip along the eaves. Place a full-width sheet over the starter, completely overlapping the starter course. Continue as noted in 6.3.3, but maintaining minimum 25-inch side (horizontal) laps, resulting in a double-layer application.

6.4 Titanium™ PSU-30:

6.4.1 Install 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.

6.4.2 Direct-to-Deck with Mechanically Fastened Roof Cover:

Cut manageable sections and re-roll with the release film side out.

Membrane Application:

- Peel back release film approximately 1 to 2 feet and align with the lower edge of the roof and set in place, printed side up.
- Apply the balance of the membrane to the substrate by removing the film and firmly pressing the membrane into place.
- Apply subsequent courses parallel to the eave in a shingle-type, water-shedding manner.
- End (vertical) laps shall be minimum 12-inches and side (horizontal) laps shall be minimum 3-inches.
- If the membrane becomes misaligned, cut the roll and re-start.

➤ Upon completion, inspect the membrane and repair any defects or fish-mouths.

The use of sealant or mastic at tile fastener penetrations is required for all tile roofing installations. Contact Interwrap for approved sealant or mastic types.

6.4.3 Direct-to-Deck with Adhesive-Set Tile Applications:

Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 and Section 5.6.2 herein, using the instructions noted above as a guideline.

Wait a minimum of 24 hours prior to loading roof tiles. Tiles shall be staged so as to avoid slippage and/or damage to the roof underlayment.

The use of sealant or mastic at tile fastener penetrations is required for all tile roofing installations. Contact Interwrap for approved sealant or mastic types.

6.5 Titanium 2-Ply System:

6.5.1 The Titanium System consists of a base layer of Titanium UDL-PLUS or UDL-30 (top-surface primed or inverted) mechanically attached to the wood roof deck followed by Titanium PSU-30, self-adhered.

6.5.2 Non-Tile Applications:

Install Titanium UDL-25 PLUS or UDL-30 (top surface primed or inverted) in accordance with Sections 6.3.1 through 6.3.3 followed by Titanium PSU-30 in accordance with Section 6.4.

6.5.3 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.

For mechanically fastened tile roofing, refer to Interwrap published installation instructions, but not less than FRSA/TRI April 2012 (04-12), Table 1.

For adhesive-set tile roofing, refer to Section 5.6.3 herein.

Wait a minimum of 24 hours prior to loading roof tiles. Tiles shall be staged so as to avoid slippage and/or damage to the roof underlayment.

The use of sealant or mastic at tile fastener penetrations is required for all tile roofing installations. Contact Interwrap for approved sealant or mastic types.

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 named QA agency for information on production locations covered by F.A.C. Rule 61G20-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

Intertek Testing Services NA Inc.-ETL/Warnock Hersey – QUA1673; (604) 520-3321

- END OF EVALUATION REPORT -

Sign up for e-Notify

Searches Results Property Record Card My Favorites

5025 Duban Ave < 17-23-30-4384-02-570 >

Names: Drapcho Donald
 Drapcho Laura
 Mailing Address On File: 5025 Duban Ave
 Belle Isle, FL 32812-1120
 Physical Street Address: 5025 Duban Ave
 Postal City and Zipcode: Orlando, FL 32812
 Property Use: 0103 - Single Fam Class III
 Municipality: Belle Isle



View 2016 Property Record Card

Values, Exemptions and Taxes Property Features Location Info Market Stats Update Information

Note: 2017 values will be available in Spring of 2017.

Property Description

LAKE CONWAY ESTATES SECTION 5 Y/112 LOT 257

Total Land Area 10,624 sqft (+/-) | 0.24 acres (+/-) GIS Calculated Notice

View Plat

Land Use Code	Zoning	Land Units	Unit Price	Land Value	Class Unit Price	Class Value
0100 - Single Family	R-1-AA	1 LOT(S)	working...	working...	working...	working...

Page 1 of 1 (1 total records)

Buildings

Important Information		Structure	
Model Code: 01 - Single Fam Residence	Actual Year Built: 1963	Gross Area: 2780 sqft	
Type Code: 0103 - Single Fam Class III	Beds: 3	Living Area: 1768 sqft	
Building Value: working...	Baths: 2.0	Exterior Wall: Concrete/Cinder Block	
Estimated New Cost: working...	Floors: 1	Interior Wall: Drywall	

Page 1 of 1 (1 total records)

Extra Features

Description	Date Built	Units	XFOB Value
PL2 - Average Fireplace	01/01/1963	1 Unit(s)	working...
SHNV - Shed No Value	01/01/1990	1 Unit(s)	working...
PL2 - Above Average Pool	10/01/2007	1 Unit(s)	working...
SCR2 - Scrm Enc 2	12/01/2007	1 Unit(s)	working...

Page 1 of 1 (4 total records)

This Data Printed on 04/10/2017 and System Data Last Refreshed on 04/09/2017



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
2/17/2017

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 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 Frank H. Furman, Inc. 1314 East Atlantic Blvd. P. O. Box 1927 Pompano Beach FL 33061	CONTACT Griseliidys Acosta PHONE (954) 943-5050 FAX (954) 942-6310 E-MAIL: grisa@furmaninsurance.com INSURER(S) AFFORDING COVERAGE INSURER A: Evanston Insurance Company INSURER B: Ohio Security Insurance Co INSURER C: INSURER D: INSURER E: INSURER F:
INSURED Gold Key Roofing, LLC Gold Key International Inc 4874 S. Orange Avenue Orlando FL 32806	NAIC # 35378 24082

COVERAGES CERTIFICATE NUMBER: 17/18 MASTER CBRT 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	ADDR/SUBR	INSR. WVD	POLICY NUMBER	POLICY EFF. DATE (MM/DD/YYYY)	POLICY EXP. DATE (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			3C07404	2/19/2017	2/19/2018	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 100,000 PERSONAL & ADV INJURY \$ 5,000 GENERAL AGGREGATE \$ 1,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED HIRED AUTOS <input checked="" type="checkbox"/> AUTOS			BAS56550862	2/19/2017	2/19/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ PIP-Basic \$
	UMBRELLA LIAB EXCESS LIAB						EACH OCCURRENCE \$ AGGREGATE \$
	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 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 City of Belle Isle 1600 Nela Ave Orlando, FL 32809	CANCELLATION 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 Dirk DeJong/GA
---	--

ACORD 25 (2014/01)
INS025 (01/14/01)

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FLORIDA ROOFING, SHEET METAL & AIR CONDITIONING CONTRACTORS ASSOCIATION, INC.

SELF INSURERS FUND

1-800-767-9772 • FAX (407) 871-2520

CERTIFICATE OF INSURANCE

ISSUED TO:

City of Belle Isle
1600 Nela Ave.
Belle Isle, FL 32809

COPY PROVIDED TO:

Gold Key Roofing, LLC
6021 S. Orange Avenue
Orlando, FL 32809

Attention:

Gold Key Roofing, LLC
6021 S. Orange Avenue
Orlando, FL 32809

This is to Certify that:

being subject to the provisions of the Florida Workers' Compensation Act, has secured the payment of compensation by insuring their risk with the FLORIDA ROOFING, SHEET METAL & AIR CONDITIONING CONTRACTORS ASSOCIATION SELF INSURERS FUND, 4099 Metric Drive, Winter Park, FL 32792.

COVERAGE NUMBER: 870-040079

LIMITS

EFFECTIVE DATE: 1/1/2017

Workers' Compensation: Statutory - State of Florida

EXPIRATION DATE: 1/1/2018

Employers' Liability: \$1,000,000.00 Each Accident

\$1,000,000.00 Disease, Each Employee

\$1,000,000.00 Disease, Policy Limit

REMARKS: Non-cancelable, without 30 days prior written notice, except for non-payment of premium which will be a 10 day written notice.

Jeffrey Allan Hewitt, Qualifier
Lic #CCC1329157

This certificate is issued as a matter of information only, is not a policy and of itself does not afford any insurance. Nothing contained in this certificate shall be construed as extending coverage not afforded by the policy(ies) shown above or as affording insurance to any insured not named above. This provides coverage for Florida policyholders and Florida domiciled employees only.

By: 

Brett Stiegel, Administrator
FRSA-SIF

By: 

Debra Guidry, CPCU, Underwriting Manager
FRSA-SIF



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

(850) 487-1395

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

HEWITT, JEFFREY ALLAN
GOLD KEY ROOFING LLC
6021 SOUTH ORANGE AVENUE
ORLANDO FL 32809

Congratulations! With this license, you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly, We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

CCC1329157 ISSUED: 08/16/2016

CERTIFIED ROOFING CONTRACTOR
HEWITT, JEFFREY ALLAN
GOLD KEY ROOFING LLC

IS CERTIFIED under the provisions of Ch. 489, FS
Expiration date AUG 31, 2018 L1608160002259

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

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



LICENSE NUMBER	CCC1329157
-----------------------	------------

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

HEWITT, JEFFREY ALLAN
GOLD KEY ROOFING LLC
6021 SOUTH ORANGE AVENUE
ORLANDO FL 32809



ISSUED: 08/16/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L1608160002259



CITY OF BELLE ISLE

OCCUPATIONAL LICENSE

1600 Nela Avenue
Belle Isle, FL 32809

Business License Number:

L5-00409

Effective Date:

10/01/15

Expiration Date:

09/30/16

Fee:

30.00

Business Name:

GOLD KEY ROOFING LLC

Location:

6009 ORANGE AV

Classification:

ROOFING/BUILDING CONTRACTOR

POST IN A CONSPICUOUS PLACE NOT VALID UNLESS SIGNED BY CITY OFFICIAL

The person, firm, or corporation named above is hereby granted this license as the receipt for fees paid to the City of Belle Isle for the business described above for the period indicated. Granting of this certificate does not entitle the holder to operate or maintain a business in violation of any law or ordinance. The City of Belle Isle does not guarantee the qualifications of the holder of this certificate.

City Official

LOCAL OCCUPATIONAL LICENSE

City of Belle Isle
1600 Nela Avenue
Belle Isle, FL 32809
Phone: 407-851-7730 Fax 407-240-2222
www.cityofbelleislefl.org