

## City of Belle Isle Job Site Card Roof PERMIT 2018-08-051

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

Permit Number 2018-08-051	Issue Date 8/21/2018
Site Address: 6633 The Landings Dr 32812	Parcel Number: 20-23-30-4980-00-320
Class: Residential	Subdivision:
Description of Work: <b>Re-roof 5000 SQFT</b> -	Asphalt Shingles
Issued To: ROOF COMMANDER, INC.	Business Phone: 352 459-599
Name: LOSIK, BRANDON LEONARD	Contractor License: CCC1330061
Payment Date & Method: <b>8</b> / <b>22</b> / 2018	□ Picked up by
■ Visa □ Master Card □ Amex □ Discover	□ Check / Money Order # <u>4207</u>
Schedule Inspections via Email at: J	BIDscheduling@universalengineering.com

SCHEDULE INSPECTIONS BY 3:00 PM CUT OFF TIME
Inspection Results Will Be Sent Out the Following Business Day

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

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

Inspection requests are to be emailed to <a href="mailto:BIDscheduling@UniversalEngineering.com">BIDscheduling@UniversalEngineering.com</a>; a confirmation email will be sent back to you upon scheduling.

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

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

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



City of Belle Isle
Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 \* Fax 407-581-0313 \* www.universalengineering.som

## 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 RECORD DECORDING VOLID MOTICE OF COMMENCEMENT

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:  Project Address   1	ATTORNET BEFORE RECORDING TOOK NOTICE OF COMMENCEMENT.
Property Owner's Mailing Address 3 3 3 EAST Pinc 5 City Or I and State	PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:
Property Owner's Mailing Address 3 3 3	Project Address 663 The Ignding Dr Belle Isle, FL 32809 32812
State	Property Owner Rick Morgan Phone 407-234-6355
Class of Building: Old  New  Record  ReRoof  Type of Building: Residential  Commercial  Other  Record  ReRoof  ReRoof  ReRoof  Reroof  Reroof  Relations  Residential  Commercial  Other  Record  Relations  Rela	Property Owner's Mailing Address 322 East Pinc St city briando
REQUIRED Florida Product Approval Screen Printout from www.floridabuilding.org for the Covering & Uniderlayment Products  Please indicate the nature of work by completing the information below;  Roof Square Footage:	
Please indicate the nature of work by completing the information below:  Roof Square Footage:	
Roof Square Footage: Some Number of Stories: Job Valuation: \$ 13, 939  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 compract through its code enforcement office. Failure to comply will result in a stop work order.  LICENSE HOLDER SIGNATURE  LICENSE HOLDER NAME PYON CON LOST Y COMPANY NAME LOST COMPANY NA	REQUIRED! Florida Product Approval Screen Printout from www.floridabuilding.org for the Covering & Underlayment Products
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 HOLDER NAME BYON COMPANY NAME	Please indicate the nature of work by completing the information below:
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 lagree 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 garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial garbage and construction debris collection and disposal services was expressed as a construction debris collection and disposal services was constructed businesses may contact Republic Services at 407-293-8000 to setup accounts for Commercial, Constructions, homeowners and commercial garbage and construction debris collection and disposal services was constructed businesses and commercial garbage and construction debris collection and disposal services was constructed businesses and commercial garbage and construction debris collection and disposal services was constructed. The city contractors, homeowners and commercial garbage and construction debris collection and disposal services was constructed. The city contractors, homeowners are fixed by contractors, and constructed	Roof Square Footage: 5000 Number of Stories: 2 Job Valuation: \$ 13,939
l 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 HOLDER NAME BYAN Clon  LICENSE # CCC 133-00-1  LICENS	Type: Asphalt Shingles ✓ Metal ☐ Modified Bitumen ☐ Other:
LICENSE HOLDER NAME Prandon Losi Y. COMPANY NAME ROCCOMMANDER  Street Address 400 (Abe Industrial BIV  City Tavares State Pl zip Code 32778 Phone Number (3521457-7599)  Email Address Admin @ Roccommander. Com No zang NBW vrof  Zoning Fee \$	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
LICENSE HOLDER NAME Prandon Losi Y. COMPANY NAME ROCCOMMANDER  Street Address 400 (Abe Industrial BIV  City Tavares State Pl zip Code 32778 Phone Number (3521457-7599)  Email Address Admin @ Roccommander. Com No zang NBW vrof  Zoning Fee \$	LICENSE HOLDER SIGNATURE
City Tavaves State Pl Zip Code 32778 Phone Number 321459-7599  Email Address Mahnin @ Roof Commander. Com  Zoning Fee \$	
Email Address Admin @ Pool Commander. Com  Zoning Fee \$	Street Address _ U680 Lake Industrial BIV
Equilding Official: SM Date 821-18  Building Fee \$	City TOVOVES State P Zip Code 32778 Phone Number (358) 459-7599
Example of the state of the sta	Email Address Admin @ Roof Commander. Com NO Zung - NEW voot
Building Official: CM Date 8-21-18  Review Fee \$ 47.50	Zoning Fee \$_
Building Official: Date O 21 10	( Leave five reproduct our sug pours)
1% BCAIB Fee \$	Building Official: Date O &\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
8.21.20(8 15% DCA Fee \$ - 2.14	1 22/10/10
Verified Contractor's Licenses & Insurance are on file Date	Verified Contractor's Licenses & Insurance are on file Date
NOTE: The Building Permit Number is required if the Boof Invallation is associated with any construction or alteration where a Building Permit	100/10 (1) 00 C N/A

Building Permit Number 21



## City of Belle Isle

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

## **Product Approval Form**

DATE: 8/15/18

PERMIT #\_ 2018-08-05

PROJECT ADDRESS

6633 The landings Dr

, 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 <a href="www.floridabuilding.org">www.floridabuilding.org</a> 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 D	OORS			WALL PA	VELS	
√SwingIng				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
	WINDO	NS			ROOFING PRO		U. SEEFIN
Single/Dbl Hung		<ul><li>a)</li></ul>		Asphalt Shingles	certainted	Windmark	FISHU-Z
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Inderlayment	Interwrap	Phino yac	K1-1571b-1
Skylights				Other	10.000		
Other							
	STRUCTURAL CO	MPONENTS			OTHER		1 21 12/12/
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

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

Applicant Signature TIFFONU ACUNO

Date 8/70/18







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

Submit Surcharge

FL5444-R14 Application Type Revision Code Version 2017 Application Status Approved

Comments Archived

Product Manufacturer CertainTeed Corporation-Roofing Address/Phone/Email 20 Moores Road

Malvern, PA 19355 (610) 893-5400

mark.d.harner@saint-gobain.com

Authorized Signature Mark Harner

mark.d.harner@saint-gobain.com

Technical Representative Mark D. Harner Address/Phone/Email 18 Moores Road

Malvern, PA 19355 (610) 651-5847

Mark.D.Harner@saint-gobain.com

Quality Assurance Representative

Address/Phone/Email

Category Roofing

Subcategory 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 Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Robert Nieminen

PE-59166 UL LLC

03/09/2020

John W. Knezevich, PE

☑ Validation Checklist - Hardcopy Received

Certificate of Independence FL5444 R14 COI 2018 01 COI NIEMINEN.pdf

Referenced Standard and Year (of Standard) **Standard** Year

**ASTM D3161** 2016 **ASTM D3462** 2010 **ASTM D7158** 2011

Equivalence of Product Standards

Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

05/30/2018

Date Validated Date Pending FBC Approval Date Approved

06/05/2018 06/07/2018 08/15/2018

Summary of Products

FL#	Model, Number or Name	Description
5444.1 CertainTeed Asphalt Roof Shingles 3-tab, 4-tab, strip (no-cut-out asphalt roof shingles		3-tab, 4-tab, strip (no-cut-outs), laminated and architectural asphalt roof shingles
Approved for a Impact Resist Design Pressu		Installation Instructions FL5444 R14 II 2018 05 FINAL ER CERTAINTEED ASPHALT SHINGLES FL5444-R14.pdf Verified By: Robert Nieminen, PE PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5444 R14 AE 2018 05 FINAL ER CERTAINTEED ASPHALT SHINGLES FL5444-R14.pdf Created by Independent Third Party: Yes



Contact Us :: 2601 Blair Stone Road, Tallahassee Ft. 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





## NEMO etc.

Certificate of Authorization #32455 353 Christian Street, Unit #13 Oxford, CT 06478 (203) 262-9245

ENGINEER EVALUATE TEST CONSULT CERTIFY

#### **EVALUATION REPORT**

CertainTeed Corporation 20 Moores Road Malvern, PA 19355 (610) 651-5847 Evaluation Report 3532.09.05-R15

FL5444-R14

Date of Issuance: 09/22/2005 Revision 15: 05/29/2018

#### 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 **6**<sup>th</sup> **Edition (2017) Florida Building Code** sections noted herein.

**DESCRIPTION: CertainTeed Asphalt Roof Shingles.** 

**LABELING:** Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and **FBC 1507.2.7.1 / R905.2.6.1** 

**CONTINUED COMPLIANCE:** This Evaluation Report is valid until 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. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. 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 "NEMO|etc. 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 15.

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 05/29/2018. This does not serve as an electronically signed document.

### **CERTIFICATION OF INDEPENDENCE:**

- 1. NEMO letc. 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. NEMO letc. 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 NEMO|etc. 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 Roof Shingles**, as produced by **CertainTeed Corporation**, have demonstrated compliance with the following sections of the 6<sup>th</sup> **Edition (2017) Florida Building Code** and 6<sup>th</sup> **Edition (2017) 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:		A CONTRACTOR OF THE PARTY OF TH	
	Section	Property	Standard	<u>Year</u>
	1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2010
	1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161	2016
	1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158	2011

REFERENCES:			
Entity	Examination	Reference	<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 (TST 9628)	ASTM D7158	TGAH.R684	04/22/2014
UL LLC (TST 9628)	ASTM D3161 & D3462	4786334434	09/16/2014
UL LLC (TST 9628)	ASTM D3161 & D3462	4786570826	02/12/2015
UL LLC (TST 9628)	ASTM D3161	4786821352	02/21/2015
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4786570717	12/16/2015
UL LLC (TST 9628)	ASTM D3161 & D3462	4787195678	02/09/2016
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4787592174	10/21/2016
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4787380356	10/26/2016
UL LLC (TST 9628)	ASTM D3462	4787380357	10/13/2016
UL LLC (TST 9628)	ASTM D7158	4787380357	11/08/2016
UL LLC (TST 9628)	ASTM D3161	4787380357	11/09/2016
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4787586427	01/25/2017
UL LLC (TST 9628)	ASTM D3161 & D3462	4788042412	11/15/2017
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4788362767	03/03/2018
UL LLC (QUA 9625)	Quality Control	Service Confirmation	Exp. 03/09/2020



## 4. PRODUCT DESCRIPTION:

## 4.1 Asphalt Shingles:

- 4.1.1 CT20™, XT™ 25, XT™ 30 and XT™ 30 IR are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.1.2 Arcadia™, Belmont®, Belmont® IR, Carriage House Shingle®, Grand Manor Shangle®, Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Pro Solaris, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris, Landmark™ Solaris IR and Landmark™ Solaris Gold/Platinum are fiberglass reinforced, laminated asphalt roof shingles.
- 4.1.3 NorthGate™ is a fiberglass reinforced, laminated, SBS modified bitumen roof shingle.
- 4.1.4 **Presidential Shake™**, **Presidential Shake™** IR, **Presidential Shake TL™** and **Presidential Solaris™** are fiberglass reinforced, architectural asphalt roof shingles.
- 4.1.5 Hatteras™, Highland Slate™ and Highland Slate™ IR are fiberglass reinforced, 4-tab asphalt roof shingles.
- 4.1.6 **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.

### 4.2 Hip & Ridge Shingles:

4.2.1 Presidential Accessory, Accessory for Hatteras, Shangle Ridge™, Shadow Ridge™, Cedar Crest™, Cedar Crest™ IR, NorthGate Ridge and NorthGate Accessory are fiberglass reinforced accessory shingles for hip and ridge installation.

## 4.3 Accessory Starter Strips:

- 4.3.1 **High-Performance Starter** is a starter shingle, measuring 10" x 36", comprised of a fiber glass mat base and ceramic-coated mineral granules embedded in asphalt. These starter shingles are designed for use with **Grand Manor Shangle®**, **Hatteras™** and **Highland Slate™**.
- 4.3.2 **Presidential Starter** is a starter shingle, measuring 13-1/4" x 40" (overall), comprised of a fiber glass mat base and ceramic-coated mineral granules embedded in asphalt with a reinforcement on its underside (for impact resistance considerations). These starter shingles, applied using two (2) overlapping layers, are designed for use with **Presidential Shake™** and **Presidential Shake TL™**.
- 4.3.3 **Presidential Starter IR** is a starter shingle, measuring 13-1/4" x 40" (overall), comprised of a fiber glass mat base and ceramic-coated mineral granules embedded in asphalt. These starter shingles, applied using two (2) overlapping layers, are designed for use with **Presidential Shake™ IR**.
- 4.3.4 **SwiftStart® Starter Shingle** is a starter strip for asphalt roof shingles. Its overall size of 15-1/4" x 38-3/4" yields two (2) 7-5/8" x 38-3/4" starter pieces per shingle.
- 4.3.5 **Universal Starter** is a starter shingle, measuring 7" x 36" (overall), comprised of a fiber glass mat base and ceramic-coated mineral granules embedded in asphalt. These starter shingles are designed for use with any CertainTeed shingle measuring 12" x 36" having a weather exposure ≤ 5".
- 4.4 Any of the above listed shingles may be produced in AR (algae resistant) versions.

#### 5. LIMITATIONS:

- This is a building code evaluation. Neither NEMO|etc. 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 within FBC HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

6<sup>TH</sup> EDITION (2017) FBC NON-HVHZ EVALUATION CertainTeed Asphalt Roof Shingles; (610) 651-5847



## 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<sub>asd</sub> = 150 mph (V<sub>ult</sub> = 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, Cedar Crest, NorthGate Ridge and NorthGate Accessory hip & ridge shingles have been evaluated in accordance with ASTM D3161, Class F. All except NorthGate Ridge and NorthGate Accessory require use of BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant, applied as specified in manufacturer's application instructions, for use in wind zones up to Vasd = 150 mph (Vult = 194 mph). Refer to Section 6 for installation requirements to meet this wind rating.
- 5.4.3 **High-Performance Starter, Presidential Starter, Presidential Starter IR, SwiftStart® Starter Shingle** and **Universal Starter** have been evaluated in accordance with **ASTM D3161, Class F.** Refer to Section 6 for installation requirements to meet this wind rating.
- 5.4.3.1 High-Performance Starter shingles are limited to use with Grand Manor Shangle®, Hatteras™ and Highland Slate™ shingles.
- 5.4.3.2 **Presidential Starter** shingles must be applied using two (2) overlapping layers and are limited to use with **Presidential** Shake™ and **Presidential Shake TL™** shingles.
- 5.4.3.3 **Presidential Starter IR** shingles must be applied using two (2) overlapping layers and are limited to use with **Presidential Shake™ IR** shingles.
- 5.4.3.4 **Universal Starter** shingles are limited to use with CertainTeed shingles measuring 12" x 36" having a weather exposure ≤5".
- 5.4.4 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.
- 5.4.4.1 Analysis in accordance with ASTM D7158 indicates the measured uplift resistance (R<sub>T</sub>) for the CertainTeed asphalt Roof shingles listed in Section 4.1.1 through 4.1.6 (except Presidential Solaris™, Landmark™ Pro Solaris and Landmark™ Solaris Gold/Platinum) exceeds the calculated uplift force (F<sub>T</sub>) at a maximum design wind speed of V<sub>asd</sub> = 150 mph (V<sub>ult</sub> = 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 FAC Rule 61G20-3.



## 6. INSTALLATION:

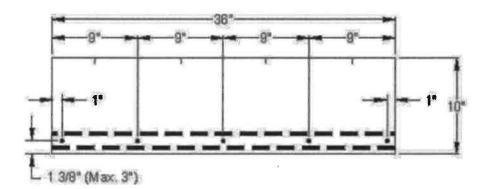
- 6.1 Roof deck, slope, underlayment and fasteners shall comply with **FBC 1507.2 / R905.2** and the shingle manufacturer's minimum requirements.
- 6.1.1 Underlayment shall be acceptable to **CertainTeed Corporation** and shall hold current Florida Statewide Product Approval, or be Locally Approved per **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 **CertainTeed Corporation** 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 1511 or R908** and CertainTeed published installation instructions.

## 6.4 HIGH-PERFORMANCE STARTER:

6.4.1 Eaves: For the first starter shingle in each roof corner, use five (5) nails as shown below. All other starter shingles require four (4) nails per shingle. Nails must be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads. Apply the 10" starter shingle with its factory-applied sealant stripes at the shingle's lower-most edge and nail firmly into the roof deck as near as possible \*(maximum 3") to the eaves edge while avoiding the sealant. With the starter shingle well fastened to the deck and the sealant low on the starter shingle, it can firmly adhere to the first course shingles. \*If nailing within 3" is not possible, nail as closely as possible, then lift and adhere the starter shingle to the underlayment and to the supporting structure with CertainTeed FlintBond™ Asphalt Roofing Cement-Caulk Grade, or approved equal.

Rakes: Prior to installation of the field shingles, starter shingles may be applied up the slope along the rake edge with sealant edge placed closest to the rake edge. Fasten as indicated below.

## HIGH-PERFORMANCE STARTER SHINGLES





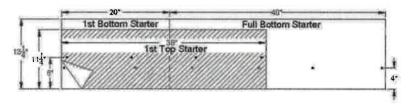
#### 6.5 Presidential Starter and Presidential Starter IR:

General: These shingles shall be applied by using two (2) overlapping layers. Begin application of the bottom/lower layer of starter shingles by cutting and applying a 13-3/4" x 20" piece at the lower left rake/eaves corner overhanging rakes and eaves 1/4" to 3/4". Continue along the eaves with full-size 13-1/4" x 40" starter shingles. Each top/upper starter course shingle shall have its 2" top section removed at the perforations, resulting in 11-1/4" x 40" shingles. The colored granule portion of the "top" starter shingles shall be located nearest the lowermost eave edge. Install the first top/upper starter shingle so that it is flush to the left side and bottom edges of the first bottom/lower starter shingle. This first top/upper starter shingle shall be 11-1/4" x 38". Continue along the eaves with 11-1/4" x 40" top/upper starter shingles ensuring that the lower edges are flush with the lower edges of the bottom/lower layer. Reference the product's wrapper for more specific details.

Eaves: Fasten as shown below. Rakes: After applying the starter shingles at the eaves, but prior to installing the field shingles, starter shingles may be applied up the slope at the rake edge. Fasten as shown below.

Fastening: Four nails are required per shingle. Nails shall be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads.

## **Presidential Starter and Presidential IR Starter Shingles**



#### 6.6 UNIVERSAL STARTER:

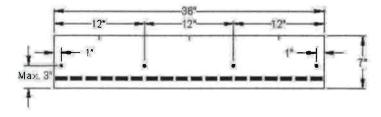
6.6.1 General: While Universal Starter Strip shingles are specifically designed to be used with shingles 36" length and having a weather exposure of ≤ 5", they may be installed beneath shingles of any length if special precautions are taken.

IMPORTANT: In all cases the end joints of the starter and the first course shingles shall NEVER BE LESS THAN 3-1/2" apart.

Eaves: The sealant on starter courses should face out and lie as close as possible to the eaves edge of the roof. Fasten as described below. Rakes: After applying the starter shingles at the eaves, but prior to installing the field shingles, starter shingles may be applied up the slope at the rake edge with sealant facing out and nearest to the outer roof edge. Fasten as described below.

Fastening: Use four nails on these starter shingles as shown below. The sealant on starter courses shall lie as close as possible to the eaves edge of the roof. Nails shall be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads.

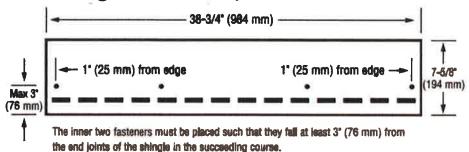
#### UNIVERSAL STARTER SHINGLES



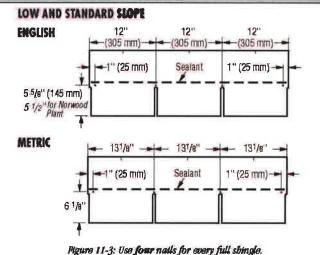


#### 6.7 SWIFTSTART® STARTER SHINGLE:

## Fastening: Use four nails, located as shown below

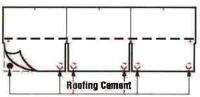


## 6.8 CT20™, XT™ 25, XT™ 30, XT™ 30 IR:



STEEP SLOPE

Use four nails and six spots of asphalt roofing cement\* for every full shingle (*Pigure 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 str spots of asphalt cement on steep slopes. \*CAUTION: Excessive use of roofing cement can cause shingles to blister.

#### 6.8.1 Hip & Ridge for CT20™, XT™ 25, XT™ 30, XT™ 30 IR: Cut Shingles

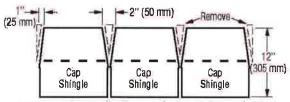


Figure 11-24: Cut tabs, then trim back to make cap shingles (English dimensions shown).

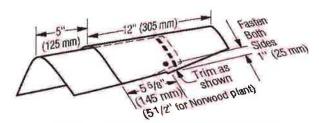


Figure 11-25: Installation of caps along the bips and ridges.

6.8.1.1 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.



#### 6.9 ARCADIA™:

#### LOW AND STANDARD SLOPE

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

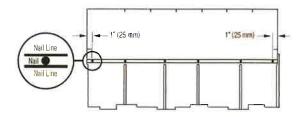


Figure 2: Use six nails for every full shingle.

#### STEEP SLOPE

Use SIX nails and FOUR spots of asphalt roofing cement for every full shingle as shown below. Apply asphalt roofing cement 1" (25 mm) from edge of shingle. Asphalt roofing cement meeting ASTM D 4586 Type II is suggested.

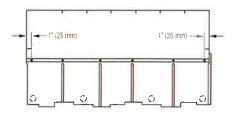
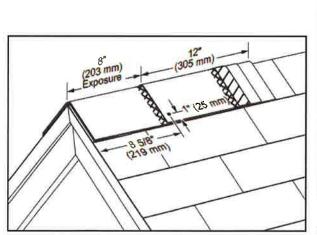


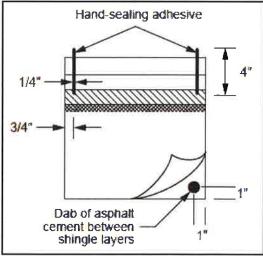
Figure 3: Use six nails and four spots of asphalt roofing cement on steep slopes.

## 6.9.1 Hip & Ridge for Arcadia™: Cedar Crest™, Cedar Crest™ IR

Use two (2), minimum 1%-inch long 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, ensuring minimum %-inch embedment into the deck, or full penetration through the deck. 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.

For **ASTM D3161**, Class F performance use BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant", in accordance with CertainTeed requirements, 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 ¾ 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.







#### 6.10 BELMONT® OR BELMONT® IR:

Low and Standard Slope Steep Slope (greater than 21:12): (2:12 to 21:12): Use SEVEN nails and EIGHT spots of Use FIVE nails for every full Belmont shingle, asphalt roofing cement\*\* for every full located as shown below. Belmont shingle. Apply asphalt roofing cement 1" (25mm) from edge of shingle. 1 1/2" (38 man) See below. Asphalt roofing cement meeting ASTM D4586 Type II is suggested. 8 5/8" (220 mm) 1 1/2" (38 mm)

- 6.10.1 Hip & Ridge for Belmont® or Belmont® IR:
- 6.10.1.1 Option 1: For Belmont®, refer to instructions herein for Cedar Crest™ or Cedar Crest™ IR hip and ridge shingles. For Belmont® IR, refer to instructions herein for Cedar Crest™ IR hip and ridge shingles.
- 6.10.1.2 Option 2: For Belmont®: Shangle® Ridge

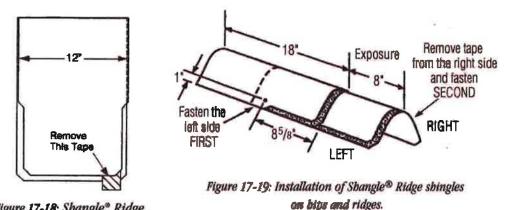


Figure 17-18: Shangle® Ridge.

6.10.1.3 For ASTM D3161, Class F performance use BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant", in accordance with CertainTeed requirements.



#### 6.11 CARRIAGE HOUSE SHANGLE® AND GRAND MANOR SHANGLE®:

## LOW AND STANDARD SLOPE

Use five nails for every full Shangle.

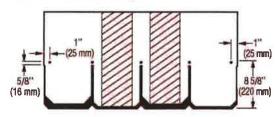


Figure 17-4: Use five nails for every full Grand Manor Shangle, Carriage House Shangle, or Centennial State.

#### STEEP SLOPE

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

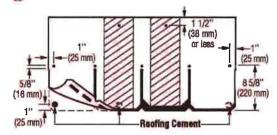
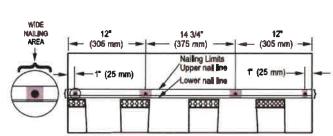


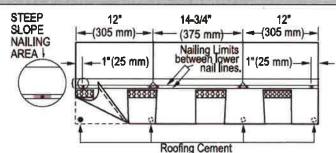
Figure 17-5: When installing Grand Manor Shangles on steep slopes, use seven nails and three spots of asphalt roofing cement.

6.11.1 <u>Hip & Ridge for Carriage House Shangle® and Grand Manor Shangle</u>: Refer to instructions herein for **Shangle® Ridge** hip and ridge shingles

6.12 LANDMARK™, LANDMARK™ IR, LANDMARK™ PRO, LANDMARK™ PRO SOLARIS, LANDMARK™ PREMIUM, LANDMARK™ SOLARIS, LANDMARK™ SOLARIS GOLD/PLATINUM OR NORTHGATE:



Nating areas for low and standard slepes (from 2:12 to 21:12)
Nati between upper & lower lines as shown above.

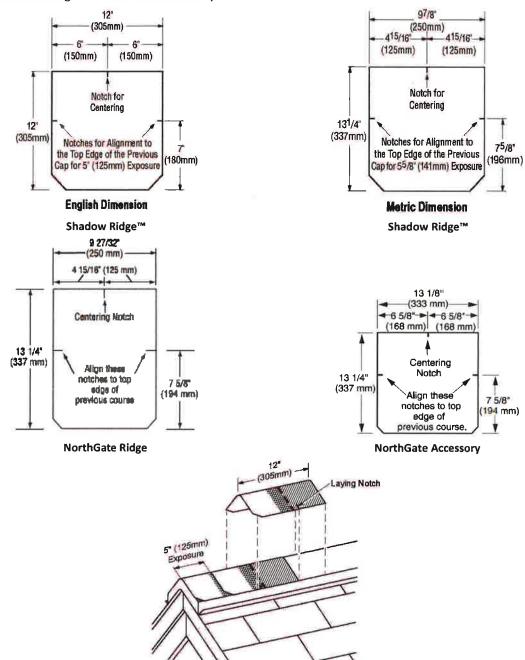


Nailing areas for steep slopes (greater than 21:12) and "Storm-Nailing" Nail between lower 2 nail lines as shown above.

Certificate of Authorization #32455



- 6.12.1 <u>Hip & Ridge for Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Pro Solaris, Landmark™ Premium, Landmark™ Solaris, Landmark™ Solaris IR, Landmark™ Solaris Gold/Platinum or NorthGate:</u>
- 6.12.1.1 Option 1: Shadow Ridge™ or NothGate Accessory



6.12.1.2 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.

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

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



6.13 LANDMARK™ TL:

### **LANDMARK TL**

#### LANDMARK TL

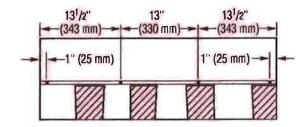


Figure 13-4: Use four nails for every full sbingle.

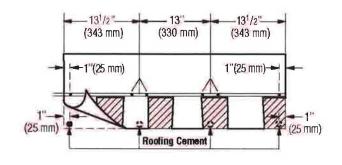


Figure 13-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

6.13.1 Hip & Ridge for Landmark™ TL: Refer to Option 1 or 2 for Landmark™.

## 6.14 PRESIDENTIAL SHAKE™, PRESIDENTIAL SHAKE™ IR, PRESIDENTIAL SHAKE TL™, PRESIDENTIAL SOLARIS™:

#### LOW AND STANDARD SLOPE:

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

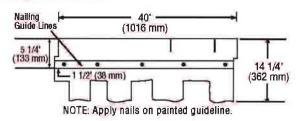


Figure 16-6: Fastening Presidential and Presidential TL Shake shingles on low and standard slopes.

#### 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.

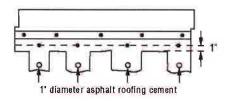


Figure 16-7: Fastening Presidential and Presidential T/L Sbake shingles on steep slopes.

#### 6.14.1 Hip & Ridge for Presidential Shake™, Presidential Shake™ IR, Presidential Shake TL™, Presidential Solaris™:

#### 6.14.1.1 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  $1^{3}/4$ " long or longer, so they penetrate either  $^{3}/4$ " 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  $9^{7}/8$ " x  $13^{1}/4$ " accessory.

- 6.14.1.2 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.
- 6.14.1.3 Option 2: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR hip and ridge shingles.

NEMO ETC, LLC



## 6.15 HATTERAS™:

#### LOW, STANDARD AND STEEP SLOPE:

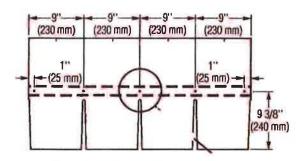


Figure 15-3: Fastening Hatteras Sbingles on Low and Standard Slopes

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

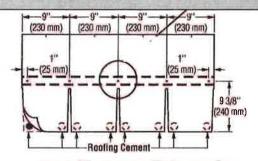


Figure 15-4: Fastening Hatteras Sbingles on Steep Slopes

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 4586 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.

## 6.15.1 Hip & Ridge for Hatteras™:

## 6.15.1.1 Option 1: Accessory for Hatteras

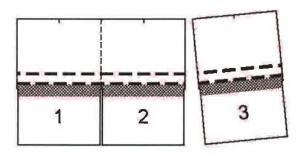
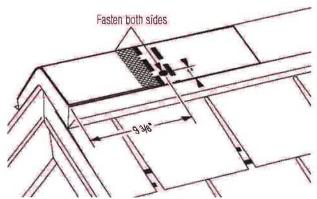


Figure 15-14: 18 three-piece units separate to make 54 Hatteras Accessory shingles.



## 6.15.1.2 Option 2: Cut Hatteras Shingles

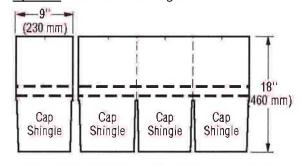


Figure 15-20: Cut Hatteras sbingles to make cover cap.

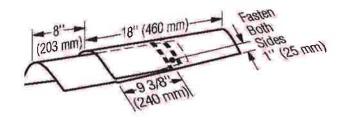


Figure 15-21: Installation of caps along bips and ridges.

6.15.1.3 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.



## 6.16 HIGHLAND SLATE™, HIGHLAND SLATE™ IR:

#### LOW AND STANDARD SLOPE:

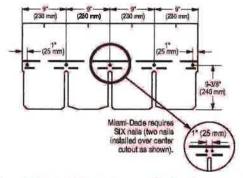


Figure 11-3: Use FIVE nails for every Highland State shingle.

#### STEEP SLOPE:

Use FIVE nails and RIGHT 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 tab corner. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

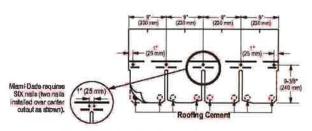


Figure 11-3A: Use FIVB nails and eight spots of asphalt roofing coment under each tab corner.

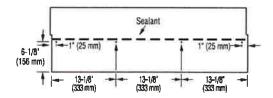
\*CAUTION: Excessive use of roofing cement can cause shingles to blister.

6.16.1 <u>Hip & Ridge for Highland Slate™, Highland Slate™ IR</u>: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR or Shangle Ridge™ hip and ridge shingles.

### 6.17 PATRIOT™:

#### **LOW AND STANDARD SLOPE**

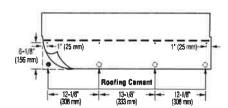
Use FOUR nails for every full shingle located as shown below.



#### 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.



6.17.1 <u>Hip & Ridge for Patriot™</u>: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR, Shadow Ridge™, NorthGate 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.

#### **BUILDING PERMIT REQUIREMENTS:**

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

### **MANUFACTURING PLANTS:**

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

#### **QUALITY ASSURANCE ENTITY:**

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

- END OF EVALUATION REPORT -





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Hot Topics

FL15216-R4 Application Type Revision Code Version 2017 Application Status Approved

Comments Archived

Product Manufacturer

Address/Phone/Email One Owens Corning Parkway

Toledo, OH 43645

(740) 321-6345

Submit Surcharge

Greg.Keeler@owenscorning.com

Owens Corning Roofing and Asphalt, LLC

Authorized Signature Keeler Greg

Greg.Keeler@owenscorning.com

Technical Representative Greg Keeler

Address/Phone/Email 2790 Columbus Road Granville, OH 43023

(740) 321-6345

greg.keeler@owenscorning.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

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed

the Evaluation Report

Florida License Quality Assurance Entity

Quality Assurance Contract Expiration Date

Referenced Standard and Year (of Standard)

Validated By

Robert Nieminen

PE-59166

Intertek Testing Services NA, Inc. - QA Entity

12/31/2020

John W. Knezevich, PE

☑ Validation Checklist - Hardcopy Received

Certificate of Independence FL15216 R4 COI 2018 01 COI NIEMINEN.pdf

Standard Year ASTM D1970 (tear) 2015 ASTM D226 (physicals) 2009 TAS 117(B) 1995

Equivalence of Product Standards

Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 04/20/2018 Date Validated

Date Pending FBC Approval

Date Approved

04/20/2018 04/22/2018 06/12/2018

Summary of Products

FL # Model, Number or Name		Description
15216.1	RhinoRoof Underlayments Synthetic roof underlayments	
Limits of Use Approved for use in H Approved for use out: Impact Resistant: N/A Design Pressure: N/A Other: See ER Section	<b>side HVHZ:</b> Yes A	Installation Instructions FL15216 R4 II 2018 04 FINAL ER OWENS CORNING RHINOROOF FL15216-R4.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL15216 R4 AE 2018 04 FINAL ER OWENS CORNING RHINOROOF FL15216-R4.pdf Created by Independent Third Party: Yes



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

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## Nemo etc.

Certificate of Authorization #32455 353 Christian Street, Unit #13 Oxford, CT 06478 (203) 262-9245

ENGINEER EVALUATE TEST CONSULT CERTIFY

#### **EVALUATION REPORT**

Owens Corning Roofing and Asphalt, LLC One Owens Corning Parkway Toledo, OH 43659 (740) 321-6345 Evaluation Report I40510.02.12-R4

FL15216-R4
Date of Issuance: 02/17/2012

Revision 4: 04/19/2018

#### 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 **6**<sup>th</sup> **Edition (2017) Florida Building Code** sections noted herein.

#### **DESCRIPTION: RhinoRoof Underlayments**

LABELING: Labeling shall be in accordance with the requirements of 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. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. 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 "NEMO|etc. 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 3.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983

NO SPIRES

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 04/19/2018. This does not serve as an electronically signed document.

#### **CERTIFICATION OF INDEPENDENCE:**

- NEMO ETC, LLC 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. NEMO ETC, LLC 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 NEMO|etc. 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:** RhinoRoof Underlayments, as produced by Owens Corning Roofing and Asphalt, LLC, has demonstrated compliance with the following sections of the 6<sup>th</sup> Edition (2017) Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

#### 2. STANDARDS:

Section	<u>Properties</u>	Standard	Year
1507.1.1, R905.1.1 Exception	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
1507.1.1, R905.1.1 Exception	Tear Strength	ASTM D1970	2015
TAS 110	Pull-through resistance	TAS 117(B)	1995

#### 3. REFERENCES:

<b>Entity</b>	<u>Examination</u>	Reference	Date
ITS (TST1509)	Physical Properties	100539395COQ-006	10/27/2011
ITS (TST1509)	Physical Properties	100539395COQ-002	10/27/2011
ITS (TST1509)	Physical Properties	100539395COQ-006	03/14/2014
PRI (TST5878)	ASTM D1970; Tear strength	OCF-330-02-02	10/03/2017
PRI (TST5878)	TAS 117(B); Pull-through	OCF-422-02-01	04/03/2018
ITS (QUA1673)	Quality Control	Service Confirmation	09/30/2017

#### 4. PRODUCT DESCRIPTION:

4.1 **RhinoRoof U20** is a multilayered polymer woven coated synthetic roof underlayment available in 42-inch wide rolls, and can be produced in various other sizes; meets FBC 1507.1.1 & R905.1.1 (Exception).

#### 5. LIMITATIONS:

- This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory or test report from accredited testing agency for fire ratings of this product.
- 5.4 **RhinoRoof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.

## 5.5 Allowable Roof Covers:

TABLE 1: ROOF COVER OPTIONS						
Underlayment Asphalt Shingles Nail-On Tile Foam-On Tile Metal & Shingles Simulated Slate						Slate or Simulated Slate
RhinoRoof U20	Yes	No	No	Yes	Yes	No

**6<sup>TH</sup> EDITION (2017) FBC NON-HVHZ EVALUATION** 

RhinoRoof Underlayments

#### 5.6 Exposure Limitations:

RhinoRoof U20 shall not be left exposed for longer than 30-days after installation.



## 6. INSTALLATION:

- 6.1 **RhinoRoof Underlayments** shall be installed in accordance with **Owens Corning Roofing and Asphalt, LLC** published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.

## 6.3 RhinoRoof U20:

6.3.1 Shall be installed in compliance with the requirements for **ASTM D226**, **Type I or II** underlayment in **FBC Table 1507.1.1 or R905.1.1** for the type of prepared roof covering to be installed, taking into account the wider sheet-width.

#### 6.3.2 <u>Fasteners:</u>

For exposure  $\leq$  24 hours, corrosion resistant fasteners may be 1-inch roofing nails with a 3/8-inch diameter head, minimum 1-inch diameter plastic or metal cap nails or FBC HVHZ nails & 1-5/8" diameter tin caps (with the rough edge facing up). The use of staples is prohibited.

For exposure > 24 hours up to maximum 30 days, corrosion resistant fasteners shall be minimum 1-inch diameter plastic or metal cap nails or FBC HVHZ nails & 1-5/8" diameter tin caps (with the rough edge facing up). The use of staples is prohibited.

6.3.2.1 Code Reference: The Exception statement in FBC 1507.1.1 and FBC R905.1.1 states: "...except metal cap nails shall be required where the ultimate design wind speed,  $V_{ulb}$  equals or exceeds 150 mph."

**Owens Corning Roofing and Asphalt, LLC** has furnished data to permit the use of 1-inch diameter plastic cap nails in lieu of metal cap nails for these applications, when the **RhinoRoof U20** underlayment is installed beneath mechanically fastened prepared roof covers referenced in FBC Table 1507.1.1 or R905.1.1.

### 6.3.3 Single Layer; Roof Slope > 4:12:

End (vertical) laps shall be minimum 6-inches and side (horizontal) laps shall be minimum 4-inches. Refer to Owens Corning Roofing and Asphalt, LLC recommendations for alternate lap configurations and/or the use of sealant under certain conditions.

For exposure ≤ 24 hours, use of every-other fastening location printed on the surface is acceptable. For exposure > 24 hours up to maximum 30-days, use of every fastening location printed on the surface is required.

When batten systems are to be installed atop the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens on the same day. Battens shall not be positioned over cap nails. If this occurs, remove the cap nail and patch the hole in accordance with Owens Corning Roofing and Asphalt, LLC published instructions.

### 6.3.4 <u>Double Layer; 2:12 < Roof Slope < 4:12:</u>

End (vertical) laps shall be minimum 12-inches and side (horizontal) laps shall be minimum half-sheet-width plus 1-inch.

Double layer application; begin by fastening a half-width plus 1-inch starter 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 half-width plus 1-inch side (horizontal) laps, resulting in a double-layer application.

6<sup>TH</sup> EDITION (2017) FBC NON-HVHZ EVALUATION



## 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:

Qingdao, China

## 9. QUALITY ASSURANCE ENTITY:

Intertek Testing Services NA Inc. - QUA1673; (608) 836-4400

- END OF EVALUATION REPORT -

## STATE OF FLORIDA

# DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER

CCC1330061

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



LOSIK, BRANDON LEONARD ROOF COMMANDER, INC. 7632 PRETTY LAKE RD CLERMONT FL 34714

4 5 344

ISSUED: 07/17/2016

DISPLAY AS REQUIRED BY LAW

SEQ# L1607170001296

BOB MCKEE
LAKE COUNTY TAX COLLECTOR

EMPLOYEES 1

TYPE OF CONTRACTING BUSINESS

BUSINESS ROOF COMMANDER INC 4680 LAKE INDUSTRIAL BLVD

ROOF COMMANDER INC 4680 LAKE INDUSTRIAL BLVD TAVARES, FL 32778 2017 / 2018
LAKE COUNTY BUSINESS TAX RECEIPT
STATE OF FLORIDA

ACCT NO. 115450 RECEIPT NO. 8760031527

**EXPIRES SEPTEMBER 30, 2018** 

ORIGINAL TAX 30.00
PENALTY 0.00
TRANSFER FEE 0.00
AMOUNT PAID 30.00
TOTAL DUE \$0.00

Receipt #2017-0019316 Paid 07/25/2017 30.00

6633 The Warrings



## **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY) 12/28/2017

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 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).

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	DUCER	CONTACT NAME:										
	uchard Insurance for WBS D.Box 6090	PHONE (A/C, No, Ext): (866) 293-3600 ext. 623 FAX (A/C, No):										
P.O.Box 6090   Clearwater, FL 33758-6090						E-MAIL ADDRESS:						
"		INSURER(S) AFFORDING COVERAGE NA										
_		INSURER A: American Zurich Insurance Company						40142				
	JRED	INSURER B:										
Workforce Business Services, Inc., Alt. Emp: Roof Commander Inc 1401 Manatee Ave. West Ste 600						INSURER C:						
Bradenton, FL 34205-6708						INSURER D :						
						INSURER E :						
l		INSURER F:										
co	VERAGES CER	TIFI	CATI	E NUMBER: 17FL0798454								
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,												
E	XCLUSIONS AND CONDITIONS OF SUCH	POLI	CIES.	. LIMITS SHOWN MAY HAVE	BEEN	REDUCED BY	PAID CLAIMS				,	
INSR LTR	TYPE OF INSURANCE	TYPE OF INSURANCE INSU WYD		POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS				
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	POLICY PRO- JECT LOC							PRODUCTS - COMP		\$		
	OTHER:							THOSEGIO COMI	701 A00	\$		
	AUTOMOBILE LIABILITY							COMBINED SINGLE	LIMIT	\$		
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	AND EMPLOYERS' LIABILITY Y/N	N/A						X PER STATUTE	OTH- ER			
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	(Mandatory in NH) If yes, describe under							E.L. DISEASE - EA E	MPLOYEE	\$	1,000,000	
	DÉSCRIPTION OF OPERATIONS below		-					E.L. DISEASE - POL	ICY LIMIT	\$	1,000,000	
				Location Coverage Perio	od:	12/31/2017	12/31/2018	Client# 05401	4			
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  Roof Commander Inc  4680 Lake Industrial Blvd  Tavares, FL 32778  Tavares, FL 32778												
L	Annual Constant Constant											
CE	RTIFICATE HOLDER	CAN	CELLATION									
City of Belle Isle 1600 Nela Ave Belle Isle, FL 32809						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										



## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/18/2018

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

	f SUBROGATION IS WAIVED, subject his certificate does not confer rights t							equire an endorsement	t. A st	atement on		
-	DDUCER			110410 1101201 111 1104 01 01	CONTACT Certificate Department							
Sihle Insurance Group, Inc.						PHONE (A/C, No, Ext): 407-869-5490 (A/C, No): 407-389-3580						
	21 Douglas Avenue				E-MAIL ADDRESS: Certificates@sihle.com							
^"	amonte Springs FL 32714											
						NAIC# 24112						
INSURED ROOFCOM-01						INSURER A: Westfield Insurance Group						
INSURED ROOFCOM-01   Roof Commander, Inc.						INSURER B : Gemini Insurance Company						
	32 Pretty Lake Road				INSURE							
Cle	ermont FL 34714				INSURE							
					INSURE							
<u>_</u>					INSURER F :							
	COVERAGES CERTIFICATE NUMBER: 842128252 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 SUBR			POLICY EFF (MM/DD/YYYY)		POLICY EXP	LIMITS				
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	CLAIMS-MADE X OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 50,000			
								MED EXP (Any one person)	\$ 5,000			
						1		PERSONAL & ADV INJURY	\$ 1,000.0	000		
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$ 2,000,0			
	PRO-							PRODUCTS - COMP/OP AGG	\$ 2,000,0			
	OTHER:							PRODUCTO-COMPTOL AGG	\$ 2,000,0	700		
Α	AUTOMOBILE LIABILITY			CWP0683002		9/8/2017	9/8/2018	COMBINED SINGLE LIMIT	\$ 1,000,0	000		
	X ANY AUTO							(Ea accident) BODILY INJURY (Per person)	\$	100		
	OWNED SCHEDULED							BODILY INJURY (Per accident)				
	X HIRED XX NON-OWNED							PROPERTY DAMAGE	\$			
	AUTOS ONLY AUTOS ONLY							(Per accident)	\$ 10,000			
	UMBRELLA LIAB OCCUP							plb				
	- OCCUR							EACH OCCURRENCE	\$			
	CLAIMS-MADE							AGGREGATE	\$			
	DED RETENTION \$ WORKERS COMPENSATION				_			PER OTH-	\$			
	AND EMPLOYERS' LIABILITY							STATUTE ER				
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?							E.L. EACH ACCIDENT	\$			
	(Mandatory in NH) If yes, describe under							E.L. DISEASE - EA EMPLOYEE				
Α	DESCRIPTION OF OPERATIONS below			OMERCOSO		0/0/0047	0/0/0040		\$ 005.00	<u> </u>		
A	Contractors Equipment			CWP0683002		9/8/2017	9/8/2018	Leased & Rented Equip Deductible	\$25,00 \$1,000			
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)												
CF	RTIFICATE HOLDER			CANCELLATION								
City of Belle Isle 1600 Nela Avenue Belle Isle FL 32809						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						
						Daniel Delgado						