



City of Belle Isle Job Site Card Roofing PERMIT 2018-04-039

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 2018-04-039

Issue Date: 04-16--2018

Site Address: 5219 Chiswick Cir. 32812

Parcel Number: 20-23-30-9373-00-460

Class: Residential

Subdivision:

Description of Work: Re-roof 4500 SQFT- Asphalt Shingles.

Issued To: Robert Batson Roofing Inc.

Business Phone: 407 423-7570

Name: Batson, Robert E. Jr.

Contractor License CCC1325487

Payment Date & Method: 4 / 16 / 2018

Visa Master Card Amex Discover Check / Money Order # 5091

Schedule Inspections via Email at: BDscheduling@universalengineering.com

SCHEDULE INSPECTIONS BY 4PM 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

700 In-progress			
710 Final			

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

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



City of Belle Isle

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



APPLICATION FOR ROOFING PERMIT

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

DATE OF APPLICATION: 4-13-18

ROOF PERMIT NUMBER 2018-04-039

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

Project Address 5219 Chiswick Circle, Belle Isle, FL 32809 X 32812

Property Owner Thomas Smith Jr. Phone

Property Owner's Mailing Address 5219 Chiswick Circle City Belle Isle

State FL Zip Code 32812 Parcel Id Number: 20 23 30 9373 00 460

REQUIRED! To obtain this information, please visit <http://www.ocpal.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 Form - NOTE: installation instructions must be posted on-site before your first inspection!!

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

Roof Square Footage: 4500 Number of Stories: 1 Job Valuation: \$ 15,000.

Type: Asphalt Shingles Metal Modified Bitumen Other: _____

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

LICENSE HOLDER SIGNATURE Robert E. Batson Jr. LICENSE # CCC 1325487

LICENSE HOLDER NAME Robert E. Batson Jr. COMPANY NAME Robert Batson Roofing

Street Address 2823 E. Jersey Ave.

City Orlando State FL Zip Code 32806 Phone Number 407-423-7570

Email Address ccwaters@cfl.rc.com

VISA 5091
PAID
4-16-2018

Zoning Fee	\$	<u>30.-</u>
Building Fee	\$	<u>95.-</u>
Review Fee	\$	<u>0</u>
1% BCAIB Fee	\$	<u>2 min</u>
1.5% DCA Fee	\$	<u>2 min</u>
Total Permit Fee	\$	<u>129.-</u>

Building Official: SM Date: 4-13-18

Verified Contractor's Licenses & Insurance are on file (SN) Date 4-13-18

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.

1511K
14x5
25
70
95

Building Permit Number _____

Permit Number: _____
 Folio/Parcel ID #: _____
 Prepared by: Cynthia B. Waters

Robert Batson Roofing
 Return to: 2823 E. Jersey Ave.
Orlando, FL 32806
ccwaters@cfl.rr.com

DOCH 20180199214
 04/04/2018 11:01:59 AM Page 1 of 1
 Rec Fee: \$10.00
 Phil Diamond, Comptroller
 Orange County, FL
 MB - Ret To: ROBERT BATSON ROOFING



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)
5219 Chiswick Circle Belle Isle, FL 32812 20 23 30 9373 00 460
- General description of improvement**
Reroof
- Owner information or Lessee information if the Lessee contracted for the improvement**
 Name Thomas Smith Jr.
 Address 5219 Chiswick Circle Belle Isle, FL 32812
 Interest in Property _____
 Name and address of fee simple titleholder (if different from Owner listed above)
 Name _____
 Address _____
- Contractor**
 Name Robert E. Batson Jr. Telephone Number 407-423-7570
 Address 2823 E. Jersey Ave. Orlando, FL 32806
- Surety** (if applicable, a copy of the payment bond is attached)
 Name _____ Telephone Number _____
 Address _____ Amount of Bond \$ _____
- Lender**
 Name _____ Telephone Number _____
 Address _____
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
 Name _____ Telephone Number _____
 Address _____
- In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
 Name _____ Telephone Number _____
 Address _____
- Expiration date of notice of commencement** (the expiration date will be 1 year from the date of recording unless a different date is specified) _____

State of FLORIDA, County of ORANGE
 I hereby certify that this is a true copy of
 the documents reflected in the Official Records
 PHIL DIAMOND
 COUNTY COMPTROLLER
 BY: _____
 DATED: 04-04-18



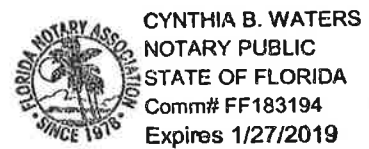
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED 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.

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

The foregoing instrument was acknowledged before me this 4 day of 3/18 by Thomas Smith Jr.
 as _____ for _____
 Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed

Cynthia B. Waters _____ Cynthia B. Waters
 Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public

Personally Known OR Produced ID _____
 Type of ID Produced _____





CITY OF BELLE ISLE, FLORIDA

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

POWER OF ATTORNEY

Date: 4-13-18

Permit #: _____

I hereby name and appoint Cynthia B. Waters of _____
(print name)

Robert Batson Roofing to be my lawful attorney-in-fact to act for
(company name)

me and apply to the City of Belle Isle Building Department for a Roofing permit
(type of permit)

for work to be performed at the following location:

5219 Chiswick Circle, Belle Isle, FL 32809 32812 and
(street address)

to sign my name and do all things necessary to this appointment.

Certified Contractor's Printed Name: Robert E. Batson Jr.

License Number: CCC 1325487

Certified Contractor's Signature: Robert E. Batson Jr.

.....
The foregoing instrument was acknowledged before me this 13 days of April of 2018
by Robert E. Batson Jr. who is personally known to me or who produced
_____ as identification and who did not take an oath.

State of Florida
County of Orange

Kristin LaChapelle
Notary Public, Orange County, Florida



Kristin Anne LaChapelle
NOTARY PUBLIC
STATE OF FLORIDA
Comm# GG130131
Expires 8/3/2021

(seal)



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

Product Approval Form

DATE: 4-13-18

PERMIT # _____

PROJECT ADDRESS 5219 Chiswick Circle

Belle Isle, FL 32809 / 32812

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

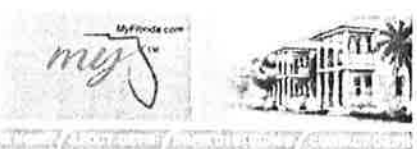
• **NOTE: The installation instructions must be posted on-site before your first inspection!!**

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbf Hung				Asphalt Shingles	<u>Cerbanteed</u>	<u>Landmark</u>	<u>FL 5444-R12</u>
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Underlayment	<u>Tamko</u>	<u>30#</u>	<u>FL 12328-R8</u>
Skylights				Other			
Other							
STRUCTURAL COMPONENTS				OTHER			
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

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

Applicant Signature Robert E. Bataje

Date 4-13-18



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Product Approval
 USER: Public User

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 Application Detail

FL #	FL5444-R12	
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	Robert Nieminen	
Florida License	PE-59166	
Quality Assurance Entity	UL LLC	
Quality Assurance Contract Expiration Date	03/09/2020	
Validated By	John W. Knezevich, PE Validation Checklist - Hardcopy Received	
Certificate of Independence	FL5444_R12_COI_2017_01_COI_Nieminen.pdf	
Referenced Standard and Year (of Standard)	Standard ASTM D3161	Year 2016

ASTM D3462
ASTM D7158

2010
2011

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 09/07/2017
Date Validated 09/12/2017
Date Pending FBC Approval 09/15/2017
Date Approved 12/12/2017

Summary of Products

FL #	Model, Number or Name	Description
5444.1	CertainTeed Asphalt Roof 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_R12_II_2017_09_FINAL_ER_CERTAINTEED ASPHALT SHINGLES_FL5444-R12.pdf Verified By: Robert Nieminen, PE PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5444_R12_AE_2017_09_FINAL_ER_CERTAINTEED ASPHALT SHINGLES_FL5444-R12.pdf Created by Independent Third Party: Yes



Contact Us :: [2601 Blair Stone Road, 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](#).



Credit Card
Safe



EVALUATION REPORT

CertainTeed Corporation

20 Moores Road
Malvern, PA 19355
(610) 651-5847

Evaluation Report 3532.09.05-R13

FL5444-R12

Date of Issuance: 09/22/2005

Revision 13: 09/05/2017

SCOPE:

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

DESCRIPTION: 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 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 12.

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 09/05/2017. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

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

ROOFING 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 6th Edition (2017) Florida Building Code and 6th 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:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<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

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 (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, 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	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 (QUA 9625)	Quality Control	Service Confirmation	Exp. 03/09/2020

4. PRODUCT DESCRIPTION:

- 4.1 CT20™, XT™ 25, XT™ 30 and XT™ 30 IR are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.2 Arcadia™, Belmont®, Belmont® IR, Carriage House Shingle®, Grand Manor Shingle®, Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris and Landmark™ Solaris IR are fiberglass reinforced, laminated asphalt roof shingles.
- 4.3 NorthGate™ is a fiberglass reinforced, laminated, SBS modified bitumen roof shingle.
- 4.4 Presidential Shake™, Presidential Shake™ IR, Presidential Shake TL™ and Presidential Solaris™ are fiberglass reinforced, architectural asphalt roof shingles.
- 4.5 Hatteras™, Highland Slate™ and Highland Slate™ IR are fiberglass reinforced, 4-tab asphalt roof shingles.
- 4.6 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.
- 4.7 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.
- 4.8 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 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.
- 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 use 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, 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 $V_{asd} = 150$ 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 Roof shingles listed in Section 4.1 through 4.6 (*except Presidential Solaris™*) 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 **F.A.C. Rule 61G20-3**.

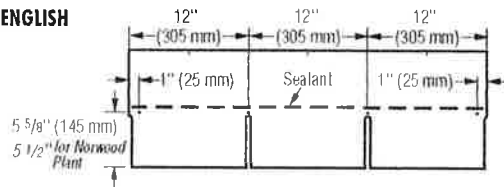
6. INSTALLATION:

- 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 **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.

CT20™, XT™ 25, XT™ 30, XT™ 30 IR:

LOW AND STANDARD SLOPE

ENGLISH



METRIC

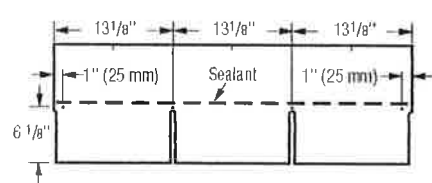
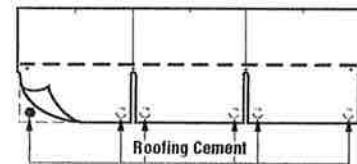


Figure 11-3: Use **four nails** for every full shingle.

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.

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

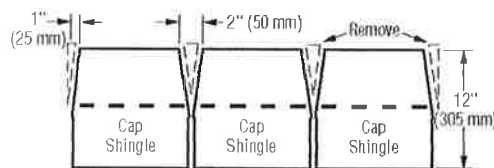


Figure 11-24: Cut tabs, then trim back to make cap shingles (English dimensions shown).

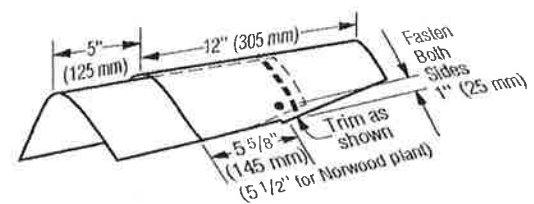


Figure 11-25: Installation of caps along the hips and ridges.

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

6.5

ARCADIA™:

LOW AND STANDARD SLOPE

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

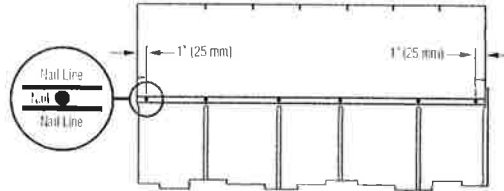


Figure 2: Use six nails for every full shingle.

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.

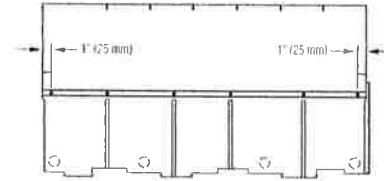


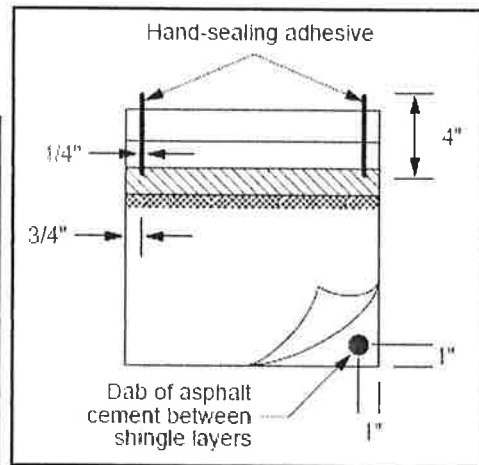
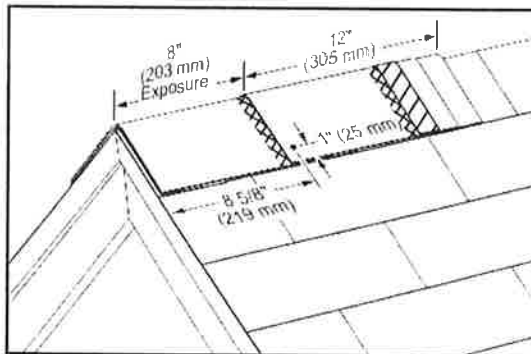
Figure 3: Use six nails and four spots of asphalt roofing cement on steep slopes.

6.5.1

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

Use two (2), minimum 1¼-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 ¾-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.

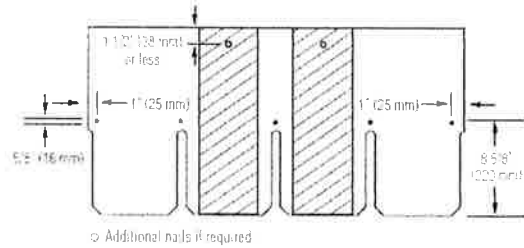


6.6

BELMONT® OR BELMONT® IR:

**Low and Standard Slope
(2:12 to 21:12):**

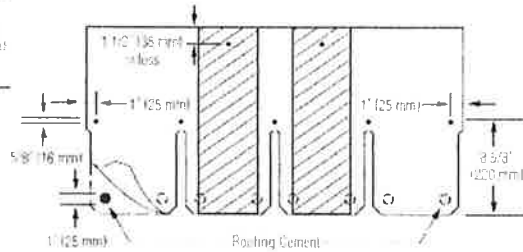
Use FIVE nails for every full Belmont shingle, located as shown below.



Additional nails if required

Steep Slope (greater than 21:12):

Use SEVEN nails and EIGHT spots of asphalt roofing cement** for every full Belmont shingle. Apply asphalt roofing cement 1" (25mm) from edge of shingle. See below. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.



6.6.1 **Hip & Ridge for Belmont® or Belmont® IR:**

6.6.1.1 **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.

6.6.1.2 **Option 2:** For Belmont®: Shangle® Ridge

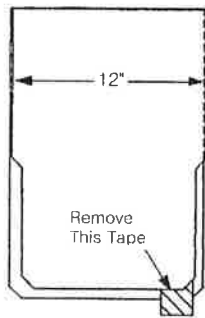


Figure 17-18: Shangle® Ridge.

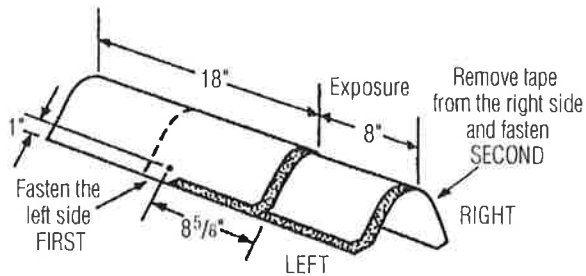


Figure 17-19: Installation of Shangle® Ridge shingles on hips and ridges.

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

6.7

CARRIAGE HOUSE SHANGLE® AND GRAND MANOR SHANGLE®:

LOW AND STANDARD SLOPE

Use five nails for every full Shingle.

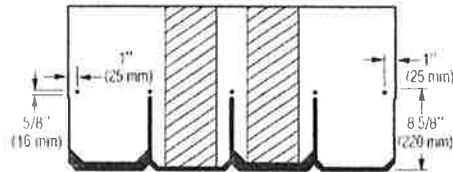


Figure 17-4: Use five nails for every full Grand Manor Shangle, Carriage House Shangle, or Centennial Slate.

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 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.

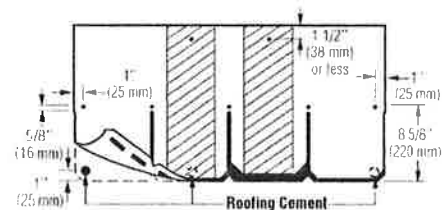


Figure 17-5: When installing Grand Manor Shangles on steep slopes, use seven nails and three spots of asphalt roofing cement.

6.7.1

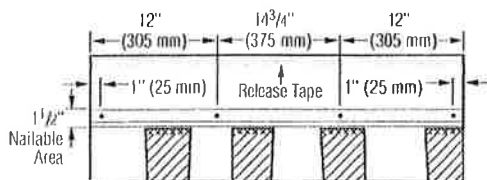
Hip & Ridge for Carriage House Shangle® and Grand Manor Shangle: Refer to instructions herein for Shangle® Ridge hip and ridge shingles

6.8

LANDMARK™, LANDMARK™ IR, LANDMARK™ PRO, LANDMARK™ PREMIUM, LANDMARK™ TL, LANDMARK™ SOLARIS, LANDMARK™ SOLARIS IR, NORTHGATE:

LOW AND STANDARD SLOPE

METRIC DIMENSIONS



LANDMARK TL

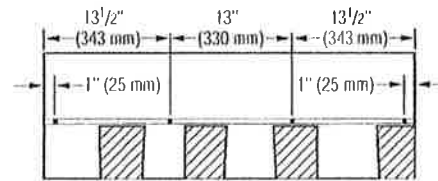
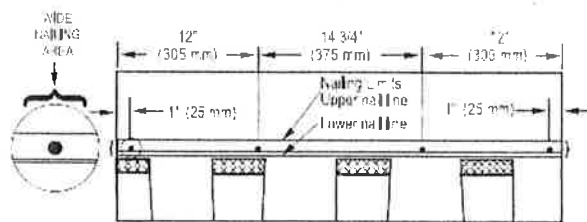


Figure 13-4: Use four nails for every full shingle.

NorthGate:

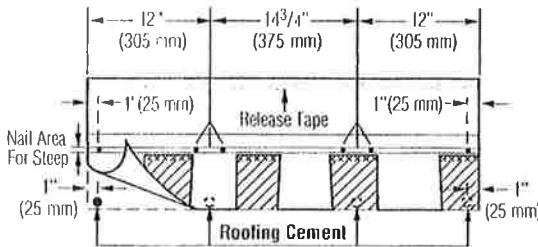


Nailing areas for low and standard slopes (from 2:12 to 21:12) nail between upper & lower lines as shown above.

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

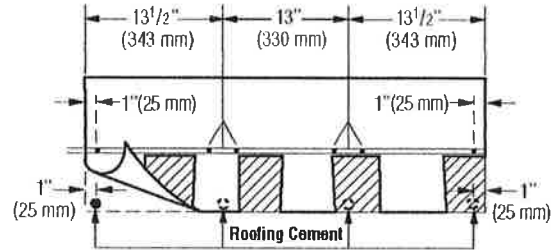
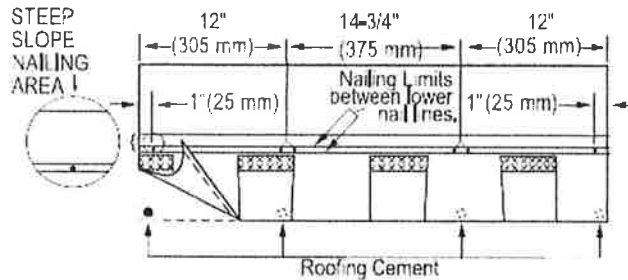


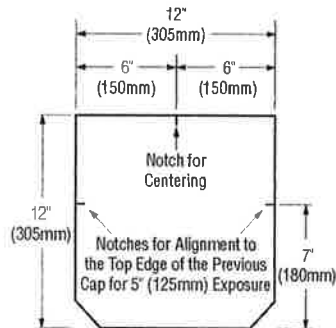
Figure 13-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

NorthGate:

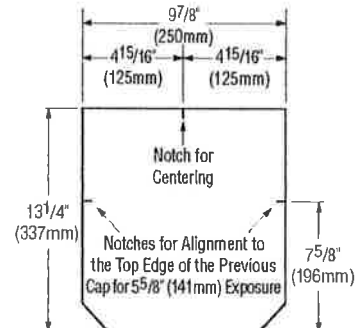


Nailing areas for steep slopes (greater than 21:12) and "Storm-Nailing"
Nail between lower 2 nail lines as shown above.

- 6.8.1 **Hip & Ridge for Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris, Landmark™ Solaris IR, NorthGate:**
- 6.8.1.1 **Option 1:** Shadow Ridge™ or NothGate Accessory



English Dimension
Shadow Ridge™



Metric Dimension
Shadow Ridge™

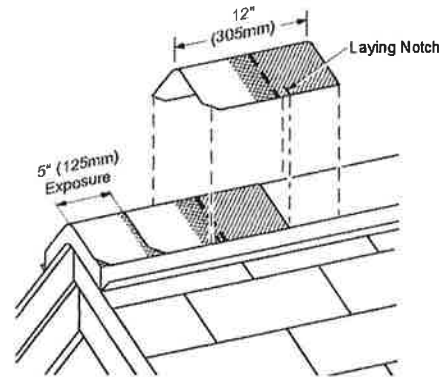
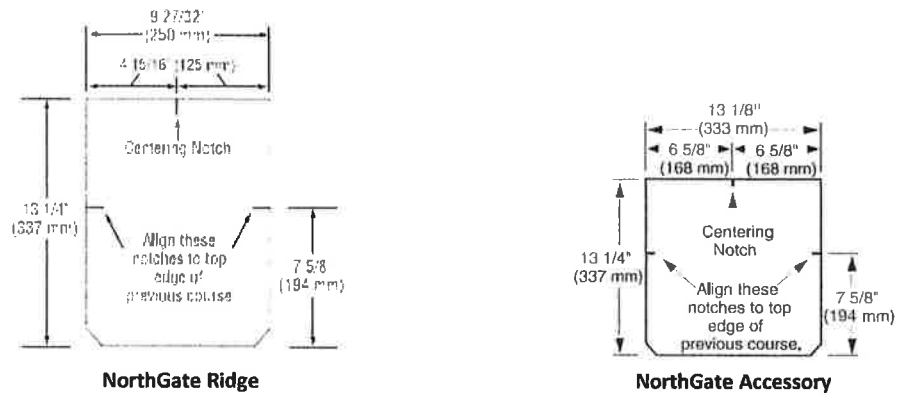


Figure 13-20: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

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

6.9 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.

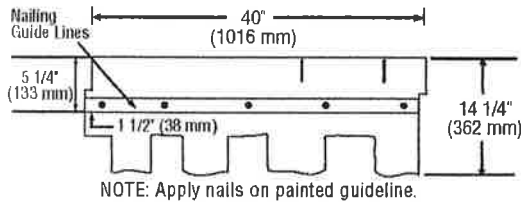


Figure 16-6: Fastening Presidential and Presidential TL Shake shingles on low and standard slopes.

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.

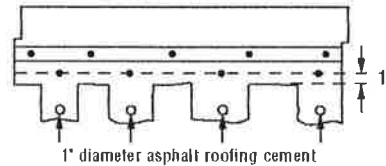


Figure 16-7: Fastening Presidential and Presidential TL Shake shingles on steep slopes.

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

6.9.1.1 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.

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

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

6.10 HATTERAS™:

LOW, STANDARD AND STEEP SLOPE:

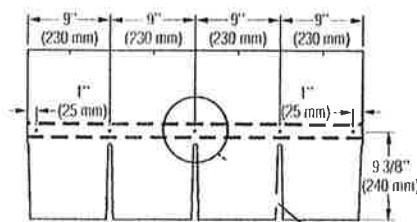


Figure 15-3: Fastening Hatteras Shingles on Low and Standard Slopes

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

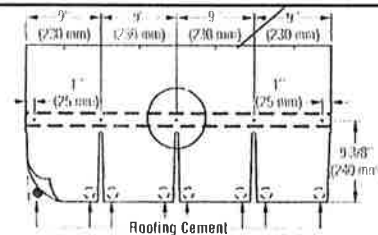


Figure 15-4: Fastening Hatteras Shingles on Steep Slopes

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 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.

- 6.10.1 **Hip & Ridge for Hatteras™:**
- 6.10.1.1 **Option 1:** Accessory for Hatteras

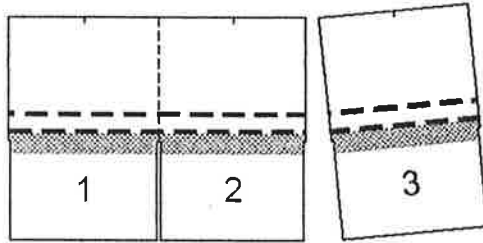
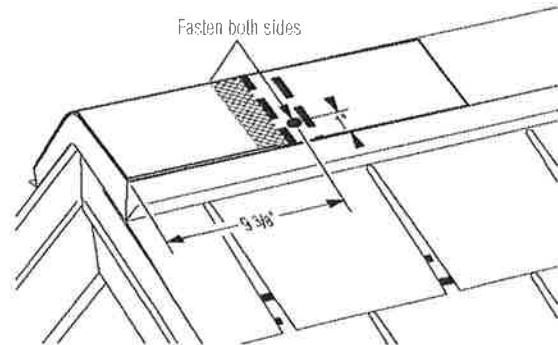


Figure 15-14: 18 three-piece units separate to make 54 Hatteras Accessory shingles.



- 6.10.1.2 **Option 2:** Cut Hatteras Shingles

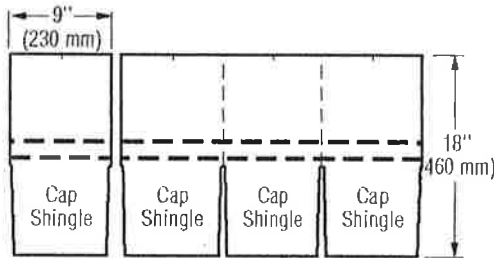


Figure 15-20: Cut Hatteras shingles to make cover cap.

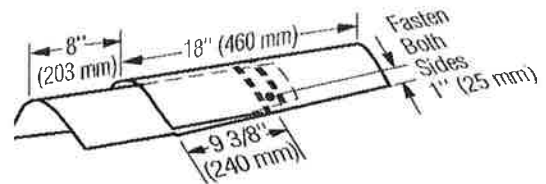


Figure 15-21: Installation of caps along hips and ridges.

- 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 HIGHLAND SLATE™, HIGHLAND SLATE™ IR:

LOW AND STANDARD SLOPE:

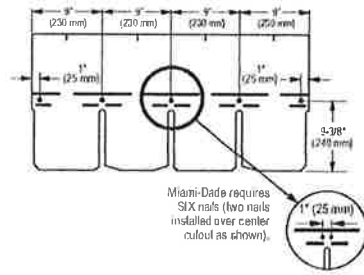


Figure 11-3: Use FIVE nails for every Highland Slate shingle.

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 tab corner. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

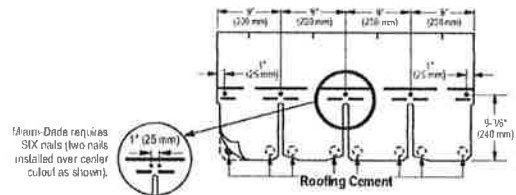


Figure 11-3A: Use FIVE nails and eight spots of asphalt roofing cement under each tab corner.

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

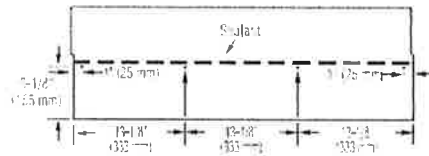
- 6.11.1 **Hip & Ridge for Highland Slate™, Highland Slate™ IR:** Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR or Shangle Ridge™ hip and ridge shingles.

6.12

PATRIOT™:

LOW AND STANDARD SLOPE

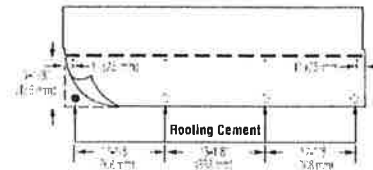
Use FOUR nails for every full shingle located as shown below.



STEEP SLOPE

Use FOUR nails and four spots of asphalt roofing cement for every full shingle as shown below. Asphalt roofing cement meeting ASTM D-6586 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.



6.12.1 **Hip & Ridge for Patriot™:** 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.**

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 -



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Product Approval
USER: Public User

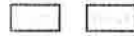
[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**



FL #	FL12328-R8
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	Archived
Product Manufacturer	TAMKO Building Products, Inc.
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (417) 624-6644 Ext 2305 kerri_eden@tamko.com
Authorized Signature	Kerri Eden kerri_eden@tamko.com
Technical Representative	Kerri Eden
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (417) 624-6644 Ext 2305 kerri_eden@tamko.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	Zachary R. Priest
Florida License	PE-74021
Quality Assurance Entity	UL LLC
Quality Assurance Contract Expiration Date	01/07/2019
Validated By	Locke Bowden Validation Checklist - Hardcopy Received
Certificate of Independence	FL12328_R8_COI_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf
Referenced Standard and Year (of Standard)	Standard ASTM D1970
	Year 2015

	Other: See evaluation report for limits of use.	Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Created by Independent Third Party: Yes
12328.5	No. 15 ASTM	Asphalt saturated organic felt
	Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.	Installation Instructions FL12328_R8_II_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Created by Independent Third Party: Yes
12328.6	No. 15 UL	Asphalt saturated organic felt
	Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.	Installation Instructions FL12328_R8_II_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Created by Independent Third Party: Yes
12328.7	No. 30 ASTM	Asphalt saturated organic felt
	Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.	Installation Instructions FL12328_R8_II_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Created by Independent Third Party: Yes
12328.8	No. 30 UL	Asphalt saturated organic felt
	Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.	Installation Instructions FL12328_R8_II_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Created by Independent Third Party: Yes
12328.9	TAM-FELT	Alternate to ASTM D 226, Type II underlayment
	Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.	Installation Instructions FL12328_R8_II_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Created by Independent Third Party: Yes
12328.10	TW Metal and Tile Underlayment	self-adhering modified bitumen underlayment
	Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.	Installation Instructions FL12328_R8_II_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO_Underlayments_final.pdf

		Underlayments final.pdf Created by Independent Third Party: Yes
12328.11	TW Underlayment	self-adhering modified bitumen underlayment
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.		Installation Instructions FL12328_R8_II_TBP14001.4_2017_FBC_Eval_Report_TAMKO Underlayments final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328_R8_AE_TBP14001.4_2017_FBC_Eval_Report_TAMKO Underlayments final.pdf Created by Independent Third Party: Yes



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Product Approval Accepts:



Credit Card
Safe





Certificate of Authorization No. 29824
17520 Edinburgh Drive
Tampa, FL 33647
(813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 6TH EDITION (2017)

Manufacturer: TAMKO BUILDING PRODUCTS, INC.
P.O. Box 1404
Joplin, MO 64802
(417) 624-6644
<http://www.tamko.com>

Issued October 19, 2017

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Underlayments
Code Sections: 1507.1.1
Properties: Physical properties

PRODUCT DESCRIPTION

TAMKO® ASTM Slate Surfaced Roll Roofing	ASTM D 6380, Class M, Type II underlayment constructed from organic felt saturated with asphalt and coated on both sides with asphalt and surfaced with granules.
TAMKO® ASTM Tile Underlayment	ASTM D 6380, Class M, Type II underlayment constructed from an organic felt saturated with asphalt then coated on both sides with asphalt and surfaced with granules.
TAMKO® Master Smooth	ASTM D 6380, Class S, Type IV underlayment constructed from an organic felt saturated with asphalt then coated on both sides with asphalt and surfaced with a fine mineral. <u>For use in non-HVHZ only.</u>
TAMKO® Moisture Guard®	Self-adhered, ASTM D 1970, fiberglass reinforced, modified bitumen sheet membrane with a mineral surfacing and a removable release film on the adhesive side and removable selvage release tape.
TAMKO® No. 15 ASTM Asphalt Saturated Organic Felt	ASTM D 226, Type I underlayment constructed from a non-perforated organic felt that is saturated with asphalt.
TAMKO® No. 15 UL Asphalt Saturated Organic Felt	ASTM D 226, Type I underlayment constructed from a non-perforated organic felt that is saturated with asphalt.
TAMKO® No. 30 ASTM Asphalt Saturated Organic Felt	ASTM D 226, Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.
TAMKO® No. 30 UL Asphalt Saturated Organic Felt	ASTM D 226, Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.
TAMKO® TW Metal and Tile Underlayment	Self-adhered, flexible, ASTM D 1970 and TAS 103, rubberized asphalt sheet membrane with a polymer film on the surface and a removable release film on the adhesive side.
TAMKO® TW Underlayment	Self-adhered, flexible, ASTM D 1970, rubberized asphalt sheet membrane with a polymer film on the surface and a removable release film on the adhesive side.

TAMKO® TAM-FELT Alternate to ASTM D 226, Type I and Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.

APPLICATION METHOD

Installation shall be in accordance with the published manufacturer's installation instructions, the FBC, and the requirements below.

Deck substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the deck shall be checked for protrusion and corrected prior to underlayment application.

The roof deck shall be constructed of closely fitted plywood sheathing for new or existing construction. Plywood deck shall be installed in accordance with FBC requirements. Roof decks shall have no more than 1/8" gap at abutting joints.

The minimum application temperature shall be 50°F except as follows:

- a) The minimum application temperature of TAMKO® TW Metal and Tile Underlayment and TAMKO® TW Underlayment shall be 40°F.
- b) The minimum application temperature of TAMKO® Moisture Guard® shall be 35°F.

The minimum roof slope shall be in accordance with FBC requirements except as follows:

- a) The minimum slope of TAMKO® ASTM Slate Surfaced Roll Roofing shall be 2:12.

Underlayments shall be exposed in accordance with the manufacturer's recommendations, but in no case shall exposure exceed 30 days.

Exception: TAMKO® TW Metal and Tile Underlayment may be exposed for a maximum 90 days.

Self-adhering underlayments may be adhered to primed or unprimed plywood substrates in the non-HVHZ.

All roof coverings shall be mechanically fastened through the underlayment to the roof deck.

Allowable Roof Coverings:

Underlayment	Asphalt Shingles	Metal Roof Panels and Shingles	Mineral Surfaced Roll Roofing	Wood Shingles and Shakes	Slate Shingles	Clay and Concrete Tile
TAMKO® ASTM Slate Surfaced Roll Roofing	Y ¹	N	N	N	N	Y
TAMKO® ASTM Tile Underlayment	N	N	N	N	N	Y
TAMKO® Master Smooth	Y ¹	N	N	N	N	N
TAMKO® Moisture Guard®	Y	N	N	N	N	N
TAMKO® No. 15 ASTM Asphalt Saturated Organic Felt	Y	Y	Y	Y ²	N	N
TAMKO® No. 15 UL Asphalt Saturated Organic Felt	Y	Y	Y	Y ²	Y	N
TAMKO® No. 30 ASTM Asphalt Saturated Organic Felt	Y	Y	Y	Y	Y	Y
TAMKO® No. 30 UL Asphalt Saturated Organic Felt	Y	Y	Y	N	Y	N
TAMKO® TW Metal and Tile Underlayment	Y	Y	N	N	N	Y
TAMKO® TW Underlayment	Y	Y	N	N	N	N
TAMKO® TAM-FELT	Y	N	N	N	N	N

Notes: 1) Open valley applications per 1507.2.9.2
 2) Wood shingles only

LIMITATIONS

- 1) Fire Classification is not within the scope of this evaluation.
- 2) Wind uplift resistance is not within scope of this evaluation.
- 3) Installation of the evaluated product shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 4) Contact the manufacturer when installing at temperatures below the minimum application temperature.
- 5) Unless otherwise stated, the minimum roof slope shall be in accordance with FBC requirements.
- 6) All underlayments shall be installed with the roll length parallel to the eave, starting at the eave, and lapped in successive courses installed up the deck in a manner that effectively sheds water from the deck. End laps shall be staggered between courses in accordance with the manufacturer's application instructions.
- 7) The underlayment may be used as described in other current FBC product approval documents.
- 8) The underlayment shall not be installed over existing roof coverings.
- 9) Contact the manufacturer regarding specific exposure limits for each underlayment.
- 10) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST6049)	TAP-192-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	TAP-193-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	TAP-214-02-01	ASTM D 4869	2016
PRI Construction Materials Technologies (TST6049)	TAP-215-02-01	ASTM D 226	2009
PRI Construction Materials Technologies (TST6049)	TAP-216-02-03	ASTM D 6380	2003(2013)
PRI Construction Materials Technologies (TST6049)	TAP-217-02-01REV	ASTM D 6380	2003(2013)
PRI Construction Materials Technologies (TST6049)	TAP-218-02-01	ASTM D 226	2009
PRI Construction Materials Technologies (TST6049)	TAP-219-02-01	ASTM D 226	2009
PRI Construction Materials Technologies (TST6049)	TAP-220-02-01	ASTM D 6380	2003(2013)
PRI Construction Materials Technologies (TST6049)	TAP-222-02-01	ASTM D 4869	2016
PRI Construction Materials Technologies (TST6049)	TAP-245-02-01	TAS 103	1995
		ASTM D 4798	2011
PRI Construction Materials Technologies (TST6049)	TAP-311-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	TAP-319-02-01.1	ACC 188	2012
PRI Construction Materials Technologies (TST6049)	TAP-387-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	TAP-388-02-01	ASTM D 1970	2015a
UL LLC (TST9628)	13CA12269	ASTM D 226	2009

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 6th Edition (2017) as evidenced in the referenced documents submitted by the named manufacturer.

A handwritten signature of Zachary R. Priest in black ink.

2017.10.19
12:15:58
-04'00'

Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT

authorities. This receipt is valid from October 1 through September 30 of receipt year. Delinquent penalty is added October 1.

2017 EXPIRES 9/30/2018 1806-0002405
1806 CERT ROOFING CONTR \$30.00 1 EMPLOYEE 5000 BUSINESS OFFICE \$30.00 1 EMPLOYEE

TOTAL TAX \$60.00
PREVIOUSLY PAID \$60.00
TOTAL DUE \$0.00

BATSON ROBERT E JR - QUALIFIER

ROBERT BATSON ROOFING INC
BATSON CAROLYN
BATSON ROBERT E JR - QUALIFIER
2823 JERSEY ST
ORLANDO FL 32806-6029

1414 S DIVISION AV
A - ORLANDO, 32805

PAID: \$60.00 0099-00772765 7/7/2017

Scott Randolph, Tax Collector

Local Business Tax Receipt

Orange County, Florida

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

2017 EXPIRES 9/30/2018 1806-0002405
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BATSON ROBERT E JR - QUALIFIER

ROBERT BATSON ROOFING INC
BATSON CAROLYN
BATSON ROBERT E JR - QUALIFIER
2823 JERSEY ST
ORLANDO FL 32806-6029

This receipt is official when validated by the Tax Collector.



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

(850) 487-1395

**CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

**BATSON, ROBERT E JR
ROBERT BATSON ROOFING INC
2823 S JERSEY ST
ORLANDO FL 32806**

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**

CCC1325487 ISSUED: 06/14/2016

**CERTIFIED ROOFING CONTRACTOR
BATSON, ROBERT E JR
ROBERT BATSON ROOFING INC**

**IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date : AUG 31, 2018 L160614000988**

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

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

LICENSE NUMBER	
CCC1325487	

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

**BATSON, ROBERT E JR
ROBERT BATSON ROOFING INC
2823 S JERSEY ST
ORLANDO FL 32806**



ISSUED: 06/14/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L160614000988



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/08/2017

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 FRSA Self Insurers Fund, Inc. 4099 Metric Drive Winter Park, FL 32792	CONTACT NAME: Debra Guidry, CPCU PHONE (A/C, No, Ext): (800) 767-3772 E-MAIL ADDRESS: debra@frsasif.com	FAX (A/C, No): (407) 671-2520
	INSURER(S) AFFORDING COVERAGE	
INSURED Robert Batson Roofing, Inc. 2823 E. Jersey St. Orlando, FL 32806	INSURER A : FRSA Self Insurers Fund / Evanston Insurance Co.	NAIC # 35378
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVO	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			N/A			EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			N/A			COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			N/A			EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	N	870-009884 / 3DY3150	01/01/2018 01/01/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
REMARKS: Non-cancelable, without 30 days prior written notice, except for non-payment of premium which will be a 10 day written notice.

CERTIFICATE HOLDER Attn: City of Belle Isle 1600 Nela Ave. Belle Isle, 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 Debra Guidry CPCU Underwriting Manager
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