



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

## PERMIT CARD – PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

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

**Scope of Work:** ROOF – re-roof 366 sf modified bitumen & 1466 sf asphalt shingles

**Comments:** None

**Project Information**

**Address:** 7204 Seminole Drive, Belle Isle, FL 32809  
**Parcel ID:** 29-23-30-4389-04-020  
**Property Owner:** Stephenson, Heather  
**Phone Number:** 321 689 3929

\*\*\*\*\*  
**Company Name:** Over The Top Roofers  
**Contractor Name:** Bovich, Gregg  
**License Number:** CCC1328358  
**Address:** 5036 Dr. Phillips Blvd, orlando, FL 32819  
**Phone Number:** 407 293 4715

**Permit Number: 2016-04-037**

**Date of Application: 04/22/2016**

**Date Permit Issued: 04/25/2016**

**WARNING TO OWNER:** "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.

### BUILDING FEATURES

**IMPACT FEES**

School \$  
Traffic \$

**ZONING FEES**

Zoning Fee \$30.00

**UNIVERSAL ENG - BUILDING FEES**

Cert of Occ \$  
Demo \$  
Building \$  
Fence \$  
Driveway \$  
Shed \$  
Window(s) \$  
Door(s) \$  
PrePower \$  
Electrical \$  
Temp Pole \$  
Plumbing \$  
Mechanical \$  
Gas \$  
Roofing \$65.00  
Boat Dock \$  
Screen Encl \$  
Swimming Pool \$  
Sign \$

**SURCHARGE FEES**

Surcharge Fee \$2.00  
Surcharge Fee \$2.00

**TOTAL FEES \$99.00**

**Date Paid** 4-25-16

**CC or Check #** 2640

**Amount Paid** 99.00

The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).

**BUILDING INSPECTOR USE ONLY**

IF APPLICABLE:

Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions

Been Met? YES NO Silt fencing in place? YES NO Turbidity Barrier in place? YES NO

**BUILDING**

1<sup>st</sup> \_\_\_\_\_ (Footing/Foundation)

Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? \_\_\_\_\_

2<sup>nd</sup> \_\_\_\_\_ (Slab)

3<sup>rd</sup> \_\_\_\_\_ (Lintel)(Wall Reinforcing on Masonry Building)

4<sup>th</sup> \_\_\_\_\_ (Exterior Framing)(Roof/Wall Sheathing)

5<sup>th</sup> \_\_\_\_\_ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)

6<sup>th</sup> \_\_\_\_\_ (Insulation to be Made After Roof Installed)

7<sup>th</sup> \_\_\_\_\_ (Drywall)

8<sup>th</sup> \_\_\_\_\_ (Sidewalk/Driveway)

9<sup>th</sup> \_\_\_\_\_ (Other)

10<sup>th</sup> \_\_\_\_\_ (Final – After MEP and Other Applicable Finals)

**ROOFING**

1<sup>ST</sup> ROOFING Deck Nailing/Dry-in/Flashing \_\_\_\_\_

2<sup>nd</sup> ROOFING Covering In-Progress \_\_\_\_\_

3<sup>rd</sup> ROOFING Covering Final \_\_\_\_\_

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

1<sup>ST</sup> \_\_\_\_\_ (Underground) 2<sup>nd</sup> \_\_\_\_\_ (Sewer)

3<sup>rd</sup> \_\_\_\_\_ (Rough-In/Tub Set) 4<sup>th</sup> \_\_\_\_\_ (Final)

**CHECK APPROPRIATE BOX**

**GAS** \_\_\_ Natural \_\_\_ LP  **MECHANICAL**  **ELECTRICAL**  **LOW VOLTAGE**

1<sup>st</sup> \_\_\_\_\_ (Rough-In) 2<sup>nd</sup> \_\_\_\_\_ (Final)

Inspection requests are to be emailed to [BIDScheduling@UniversalEngineering.com](mailto:BIDScheduling@UniversalEngineering.com); a confirmation email will be sent back to you upon scheduling. **Next-Day Inspection requests must be made by 4pm.** Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com>

login ID = [cobi@universalengineering.com](mailto:cobi@universalengineering.com)

password = universal13



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universaengineering.com](http://www.universaengineering.com)

RECEIVED  
APR 27 2016

## 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: 4/23/16 ROOF PERMIT NUMBER 2016-04-037  
PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 7204 SEMINOLE DR, Belle Isle, FL 32809 32812  
Property Owner HEATHER A. STEPHENSON Phone \_\_\_\_\_  
Property Owner's Mailing Address 7204 SEMINOLE DR City BELLE ISLE  
State FL Zip Code 32812 Parcel Id Number: 29-23-30-4389  
REQUIRED! To obtain this information, please visit <http://www.ocpafi.org/Searches/ParcelSearch.aspx>

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

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

Please indicate the nature of work by completing the information below:  
Roof Square Footage: 1800 Number of Stories: 1 Job Valuation: \$ 5473  
Type: Asphalt Shingles  Metal  Modified Bitumen  Other: \_\_\_\_\_  
*industry standard + \$1,000*  
*8055800*

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 Gregory Bouch LICENSE # CCC 1328358  
LICENSE HOLDER NAME GREGORY BOUCH COMPANY NAME Over The Top Roofers LLC  
Street Address 5512 SAGO PALM DRIVE  
City ORLANDO State FL Zip Code 32819 Phone Number 407-401-0008  
Email Address \_\_\_\_\_

Building Official: sq Date 4-25-16  
Verified Contractor's Licenses & Insurance are on file (Signature) Date 4-25-16

Zoning Fee	\$ <u>30.-</u>
Permit Fee	\$ <u>65.-</u>
Review Fee	\$ <u>0</u>
3% Florida Surcharge	\$ <u>4.00</u>
Total Permit Fee	\$ <u>109.00</u>

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

1511K  
8' x 55  
25  
#0  
65

3-66 sq flat  
4-66 shingles  
15.33

Permit Number:  
Folio/Parcel ID #: 29-23-30-4384-04-020  
Prepared by:

Over The Top Roofers, LLC  
Return to: 5036 Dr. Phillips Blvd.  
Suite 296  
Orlando, FL 32819

DOCM 20160203963  
04/22/2016 01:30:35 PM Page 1 of 1  
Rec Fee: \$10.00  
Martha O. Haynie, Comptroller  
Orange County, FL  
MB - Ret To: OVER THE TOP ROOFERS LLC



### NOTICE OF COMMENCEMENT

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

- Description of property** (legal description of the property, and street address if available)  
LAKE CONWAY PARK G/138 LOTS 2&3 ISLAND ON W TO 86.4 FT CONTOUR BLKD
- General description of improvement**  
RE-ROOF w/ ASPHALT SHINGLES
- Owner information or Lessee information if the Lessee contracted for the improvement**  
Name HEATHER A STEPHENSON  
Address 7204 SEMINOLE DR BELLE ISLE, FL 32812  
Interest in Property OWNER  
**Name and address of fee simple titleholder** (if different from Owner listed above)  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- Contractor**  
Name OVER THE TOP ROOFERS, LLC Telephone Number 407-293-4715  
Address 5036 DR PHILLIPS BLVD STE 296 ORLANDO, FL 32819
- Surety** (if applicable, a copy of the payment bond is attached)  
Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_ Amount of Bond \$ \_\_\_\_\_
- Lender**  
Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**  
Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_
- In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**  
Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_
- Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified) 8/11/16


**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 of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager \_\_\_\_\_  
Signature's Title/Office Owner

The foregoing instrument was acknowledged before me this 23 day of 4 / 16 by HEATHER STEPHENSON  
month/year name of person

as OWNER for \_\_\_\_\_  
Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed  
Andrew R. Halter ANDREW R. HALTER  
Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public

Personally Known OR Produced ID X  
Type of ID Produced S 316 321 67 6300

**ANDREW RAYMOND HALTER**  
NOTARY PUBLIC  
STATE OF FLORIDA  
Comm# FF045493  
Expires 8/14/2017





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## Product Approval Form

DATE: 4/23/16

PERMIT # \_\_\_\_\_

PROJECT ADDRESS 7204 SEMINOLE DR, 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](http://www.floridabuilding.org) or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

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

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbt Hung				Asphalt Shingles	CERTAINTEED	LANDMARK	FL-5444R8
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Other			
Skylights				MODIFIED BITUMEN	CERTAINTEED	FLINTLASYC	FL2533-RK
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 Greg Boviak

Date 4-18-16



**Product Approval**  
USER: Public User

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

FL #	FL5444-R9
Application Type	Revision
Code Version	2014 ✓
Application Status	Approved
Comments	
Archived	
Product Manufacturer	CertainTeed Corporation-Roofing
Address/Phone/Email	18 Moores Road Malvern, PA 19355 (610) 651-5847 mark.d.harner@saint-gobain.com
Authorized Signature	Mark Harner mark.d.harner@saint-gobain.com
Technical Representative	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 Professional Engineer Evaluation Report - Hardcopy
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	07/03/2017
Validated By	John W. Knezevich, PE ✓ Validation Checklist - Hardcopy

Certificate of Independence

[FL5444 R9 COI 2016 01 COI I](#)

Referenced Standard and Year (of Standard)

**Standard**

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

Equivalence of Product Standards  
 Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

02/16/2016

Date Validated

02/16/2016

Date Pending FBC Approval

02/17/2016

Date Approved

04/12/2016

**Summary of Products**

FL #	Model, Number or Name	Description
5444.1	CertainTeed Asphalt Roofing Shingles	3-tab, 4-tab, strip (no asphalt roof shingles)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> N/A <b>Other:</b> Refer to ER Section 5 for Limits of Use		<b>Installation Instructions</b> <a href="#">FL5444 R9 II 2016 Shingle FL5444-R9.pdf</a> Verified By: Robert N. Created by Independent
		<b>Evaluation Reports</b> <a href="#">FL5444 R9 AE 2016 Shingle FL5444-R9.pdf</a> Created by Independent

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

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

**Product Approval Accepts:**





**EXTERIOR RESEARCH & DESIGN, LLC.**  
 Certificate of Authorization #9503  
 353 CHRISTIAN STREET, UNIT #13  
 OXFORD, CT 06478  
 PHONE: (203) 262-9245  
 FAX: (203) 262-9243

**EVALUATION REPORT**

**CertainTeed Corporation**  
 18 Moores Road  
 Malvern, PA 19355

**Evaluation Report 3532.09.05-R10**  
**FL5444-R9**  
**Date of Issuance: 09/22/2005**  
**Revision 10: 02/16/2016**

**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 5<sup>th</sup> Edition (2014) Florida Building Code sections noted herein.

**DESCRIPTION: CertainTeed Asphalt Roofing Shingles.**

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

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

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

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

This Evaluation Report consists of pages 1 through 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 02/16/2016. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

**CERTIFICATION OF INDEPENDENCE:**

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



**ROOFING SYSTEMS EVALUATION:**

**1. SCOPE:**

**Product Category:** Roofing  
**Sub-Category:** Asphalt Shingles

**Compliance Statement:** CertainTeed Asphalt Roofing Shingles, as produced by CertainTeed Corporation, have demonstrated compliance with the following sections of the Florida Building Code and Florida Building Code, Residential Volume through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2009
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161, Class F	2009
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158, Class H	2008

**3. REFERENCES:**

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

**4. PRODUCT DESCRIPTION:**

- 4.1 CT20™, XT™ 25, XT™ 30 and XT™ 30 IR are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.2 Carriage House Shangle®, Centennial Slate™, Grand Manor Shangle®, Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris and Landmark™ Solaris IR are fiberglass reinforced, laminated asphalt roof shingles.
- 4.3 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 in the HVHZ
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 Wind Classification:
  - 5.4.1 All shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F and/or ASTM D7158, Class H, indicating the shingles are acceptable for 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 roofing 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 the Florida Building Code and F.A.C. Rule 61G20-3.

## 6. INSTALLATION:

- 6.1 Roof deck, slope, underlayment and fasteners shall comply with FBC 1507.2 / R905.2 and the shingle manufacturer's minimum requirements.

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

**6.3.1 CT20™, XT™ 25, XT™ 30, XT™ 30 IR:**

**LOW AND STANDARD SLOPE**

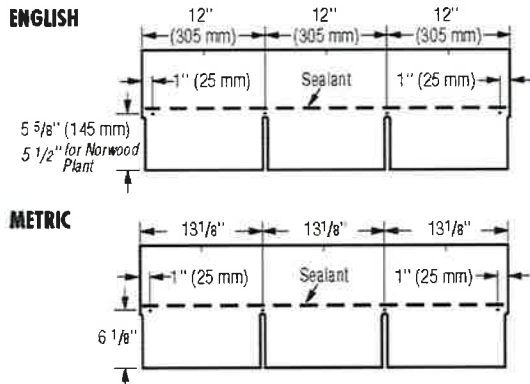


Figure 11-3: Use **four nails** for every full shingle.

**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.

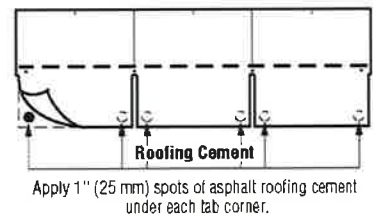


Figure 11-4: Use **four nails** and six spots of asphalt cement on steep slopes.

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

**6.3.1.1 Hip & Ridge: Cut Shingles**

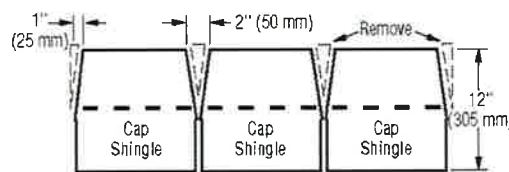


Figure 11-24: Cut tabs, then trim back to make cap shingles (English dimensions shown).

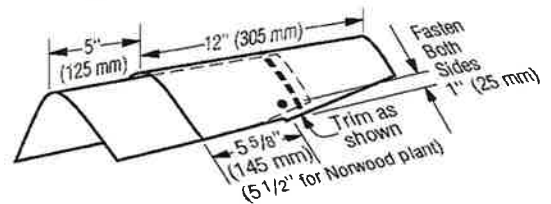


Figure 11-25: Installation of caps along the hips and ridges.

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

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

**LOW AND STANDARD SLOPE**

Use five nails for every full Shingle.

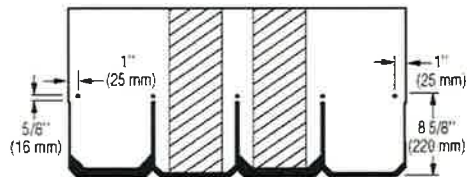


Figure 17-4: Use five nails for every full Grand Manor Shingle, Carriage House Shingle, or Centennial Slate.

**STEEP SLOPE**

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

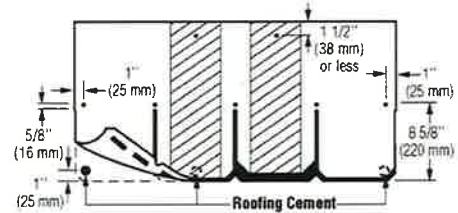


Figure 17-5: When installing Grand Manor Shingles on steep slopes, use seven nails and three spots of asphalt roofing cement.

**6.3.2.1 Hip & Ridge: Shingle® Ridge**

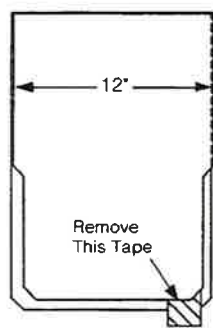


Figure 17-18: Shingle® Ridge.

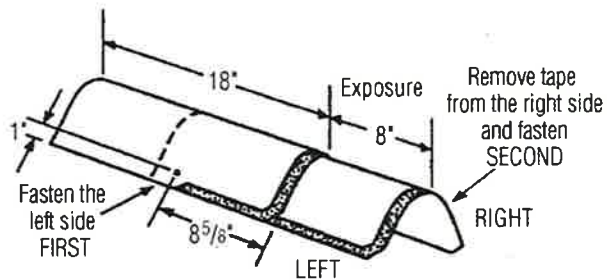


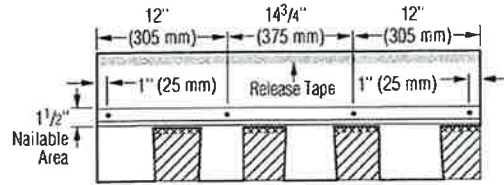
Figure 17-19: Installation of Shingle® Ridge shingles on hips and ridges.

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

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

**LOW AND STANDARD SLOPE**

**METRIC DIMENSIONS**



**LANDMARK TL**

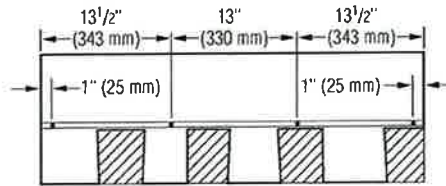
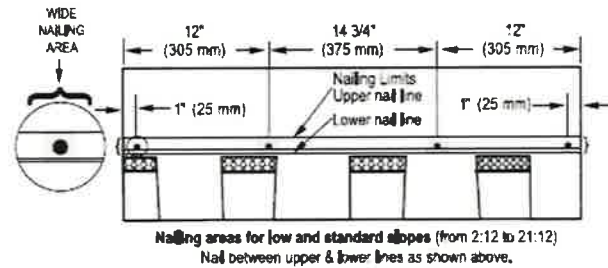


Figure 13-4: Use four nails for every full shingle.

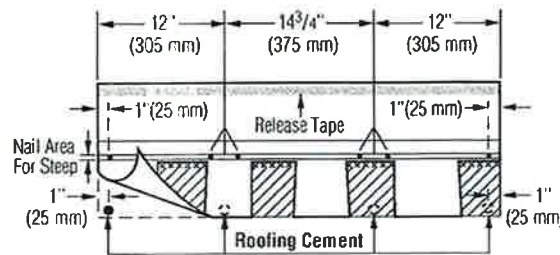
**NorthGate:**



**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**

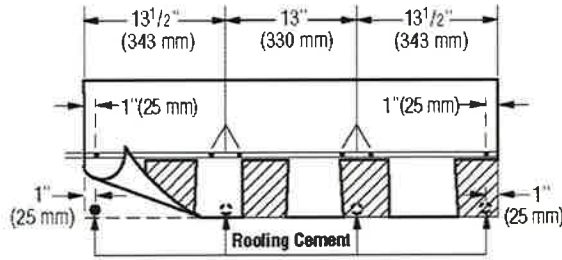
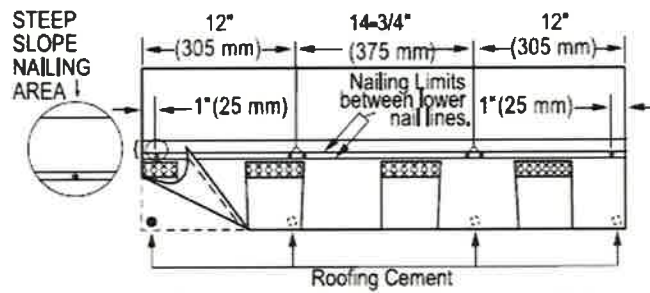


Figure 13-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

**NorthGate:**



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

**6.3.3.1 Hip & Ridge, Option 1: Shadow Ridge™ or NothGate Accessory**

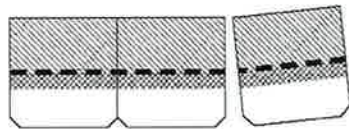
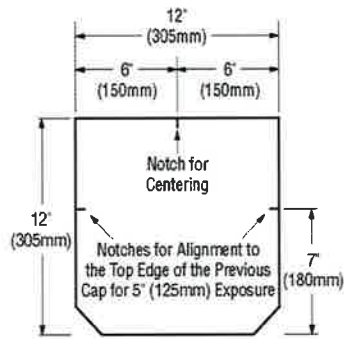
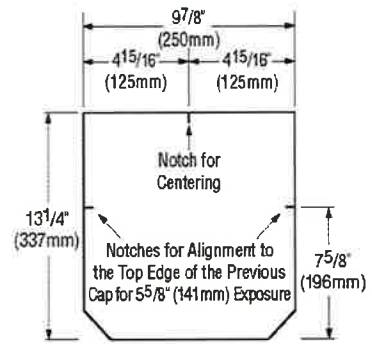


Figure 13-16: Shadow Ridge accessory shingles detach easily from three-piece units to make 72 individual cap pieces.



**English Dimension**  
**Shadow Ridge™**



**Metric Dimension**  
**Shadow Ridge™**

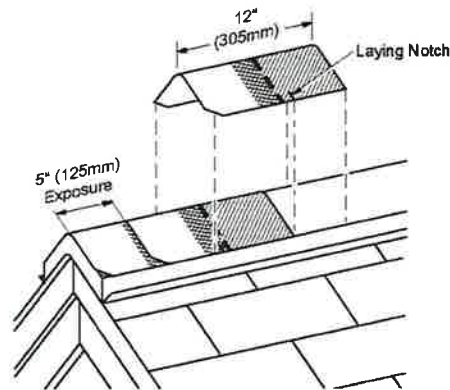
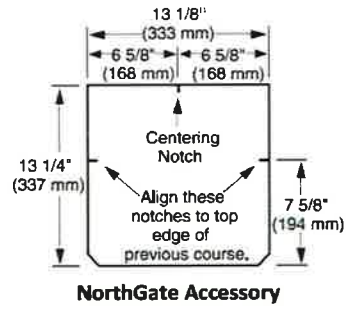
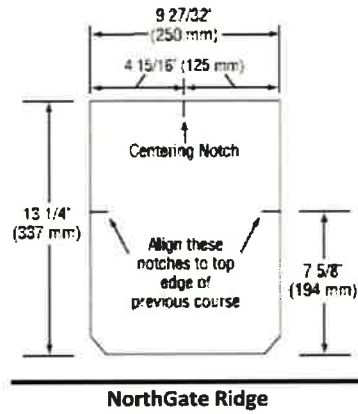
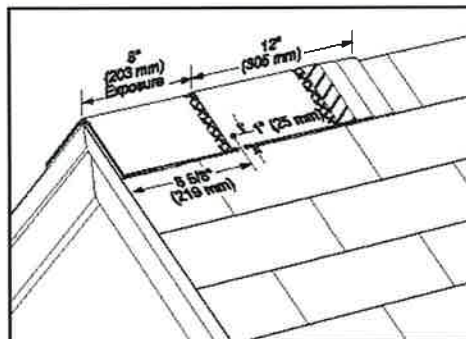


Figure 13-20: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

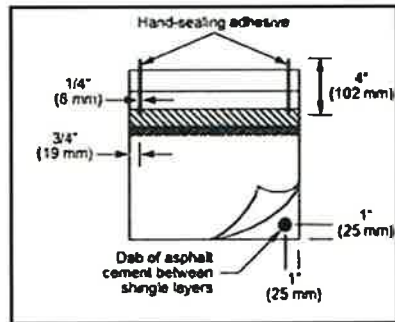
Note: For ASTM D3161 - Class F of Shadow Ridge™, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

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

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



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



#### 6.3.4 **Presidential Shake™, Presidential Shake™ IR, Presidential Shake TL™, Presidential Solaris™:**

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

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

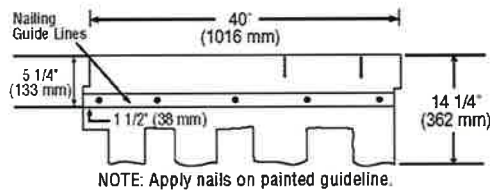


Figure 16-6: Fastening Presidential and Presidential TL Shake shingles on low and standard slopes.

##### **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.

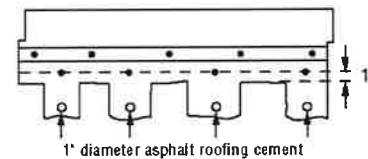


Figure 16-7: Fastening Presidential and Presidential TL Shake shingles on steep slopes.

#### 6.3.4.1 Hip & Ridge, Option 1: Presidential Accessory

##### **PRESIDENTIAL ACCESSORY**

Presidential accessory shingles can be used for covering hips and ridges. Apply shingles up to the ridge (expose no more than 7" from the bottom edge of the "tooth." Fasten each accessory with two fasteners. The fasteners must be 1 $\frac{3}{4}$ " long or longer, so they penetrate either  $\frac{3}{4}$ " into the deck or completely through the deck. Presidential accessory comes in two different sizes: Accessory produced in Birmingham, AL is 12" x 12"; Portland, OR produces 9 $\frac{7}{8}$ " x 13 $\frac{1}{4}$ " accessory.

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

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



**6.3.5 Hatteras™:**

**LOW, STANDARD AND STEEP SLOPE:**

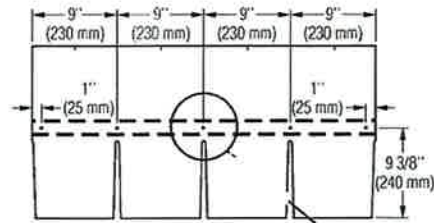


Figure 15-3: Fastening Hatteras Shingles on Low and Standard Slopes

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

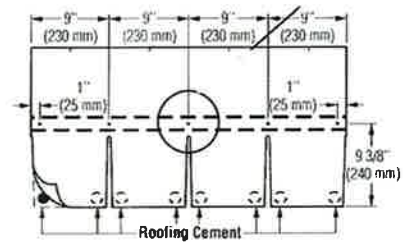


Figure 15-4: Fastening Hatteras Shingles on Steep Slopes

For steep slopes, use five nails and eight spots of asphalt roofing cement for each full Hatteras shingle as shown above. Apply 1" (25mm) diameter spots of roofing cement (ASTM D 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.

**6.3.5.1 Hip & Ridge, Option 1: Accessory for Hatteras**

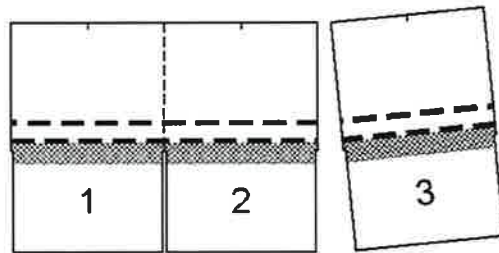
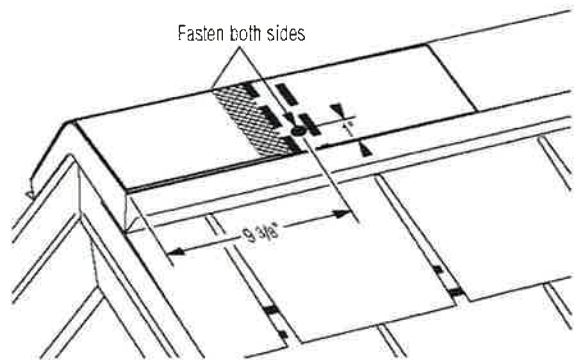


Figure 15-14: 18 three-piece units separate to make 54 Hatteras Accessory shingles.



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

**6.3.5.2 Hip & Ridge, Option 2: Cut Hatteras Shingles**

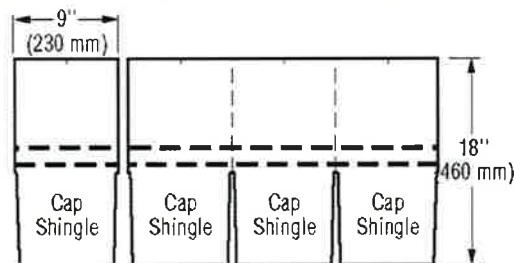


Figure 15-20: Cut Hatteras shingles to make cover cap.

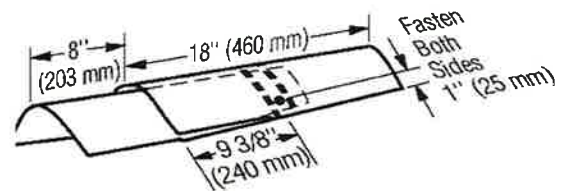


Figure 15-21: Installation of caps along hips and ridges.

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

**6.3.6 Highland Slate™, Highland Slate™ IR:**

**LOW AND STANDARD SLOPE:**

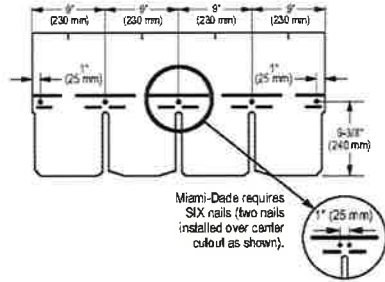


Figure 11-3: Use FIVE nails for every Highland Slate shingle.

**STEEP SLOPE:**

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

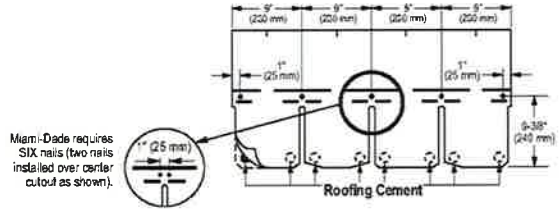


Figure 11-3A: Use FIVE nails and eight spots of asphalt roofing cement under each tab corner.

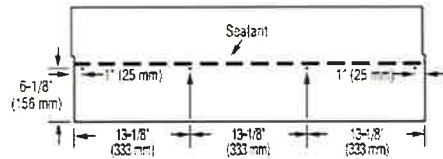
\*CAUTION: Excessive use of roofing cement can cause shingles to blister.

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

**6.3.7 Patriot™:**

**LOW AND STANDARD SLOPE**

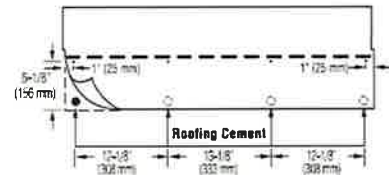
Use FOUR nails for every full shingle located as shown below.



**STEEP SLOPE**

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

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



Hip & Ridge: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR, Shadow Ridge™, 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 -**

# Landmark™ Series and Landmark™ TL

# 12

**YOUR OBJECTIVE:**

To learn the correct procedure for installing Landmark™ shingles.

**LANDMARK™ SERIES AND LANDMARK™ TL**

Landmark shingles have the installer-friendly NailTrak™ feature, which provides 1½" wide nailing area and specially formulated Quadra-Bond laminating adhesive (See Figure 12-3).

Landmark Special is impact resistant and is specially manufactured with a reinforced fiberglass scrim to meet UL 2218 Class 4 impact resistance rating.

**NOTE:** Landmark Special must be installed over a clean deck (no roof-overs) to obtain the UL 2218 rating. It is strongly recommended that impact resistant cap shingles made from XT 30 IR shingles be installed on all hips and ridges. Some insurance carriers may not consider the roof system as compliant to UL 2218 Class 4 without impact resistant cap shingles.

Landmark Solaris™ shingles are ENERGY STAR® qualified roof products that meet both solar reflectance and thermal emissivity requirements. Using CertainTeed's advanced roofing granules, Landmark Solaris reflects solar energy and radiates heat far better than traditional roofing shingles – it can reduce the roof's temperature by as much as 20 percent in the summer. **NOTE:** Use matching Landmark Solaris hip and ridge shingles which are also solar reflective.

Landmark TL is unique because its patented Tri-Laminate™ design combines three layers of material to provide a dramatically thick shingle with a wood shake style.

With the exception of Landmark TL, closed-cut valleys are preferred by CertainTeed when applying these shingles; however, open valleys are also acceptable. **Open valleys are recommended when applying Landmark TL;** however closed-cut valleys are also acceptable. Woven valleys are not recommended for Landmark TL because the tri-laminated shingle can buckle and become damaged when shaped into the valley. **Nails are required as fasteners for Landmark TL,** staples are not allowed.

**STANDARD OR STEEP SLOPES:** CertainTeed recommends DiamondDeck™ Synthetic Underlayment, Roofers' Select™ High Performance Underlayment, or shingle underlayment meeting ASTM D226, D4869 or D6757. Take care to ensure sufficient deck ventilation when DiamondDeck or other synthetic underlayment is installed. Follow manufacturer's application instructions.

**LOW SLOPES:** One layer of CertainTeed's WinterGuard™ Waterproofing Shingle Underlayment (or equivalent, meeting ASTM D1970) or two layers of 36" wide felt shingle underlayment (Roofers' Select or underlayment product meeting ASTM D226, D4869 or D6757) lapped 19" must be applied over the entire roof; ensure sufficient deck ventilation. When DiamondDeck or other synthetic underlayment is installed, weather-lap at least 20" and ensure sufficient deck ventilation.

**IMPORTANT:** When installing LandMark TL on low slopes, one layer of WinterGuard or an equivalent waterproofing shingle underlayment must be applied over the entire roof. **Applying two layers of felt shingle underlayment is not an acceptable alternative to WinterGuard.** One layer of shingle underlayment meeting ASTM D4869 applied over the required WinterGuard is also recommended.

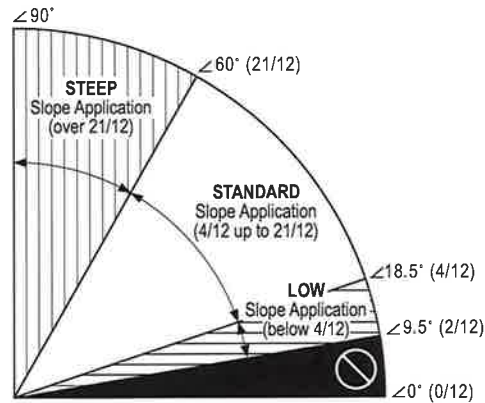


Figure 12-1: Slope definitions.

**THE ROOF DECK\* MUST BE AT LEAST:** 3/8" (9.5 mm) thick plywood, or 7/16" (11 mm) thick non-veneer, or nominal 1" (25 mm) thick wood deck.

**COLD WEATHER CLIMATES (ALL SLOPES):** Application of WinterGuard or its equivalent is strongly recommended whenever there is a possibility of ice build-up. Follow manufacturer's application instructions.

**FLASHING:** Corrosion-resistant flashing must be used to help prevent leaks where a roof meets a wall, another roof, a chimney or other objects that penetrate a roof.

**SEALING:** Shingle sealing may be delayed if shingles are applied in cool weather and may be further delayed by airborne dust accumulation. If any shingles have not sealed after a reasonable time period, hand sealing may be necessary.

**CAUTION:** To prevent cracking, shingles must be sufficiently warm to allow proper forming for hips, ridges and valleys.

**WARRANTY:** These shingles are warranted against manufacturing defects and are covered by SureStart™ protection. See the warranty itself for specific details and limitations.

\*

For technical questions, information on acceptable alternative application methods and materials, or a copy of the product warranty, contact the sources listed below:	Warranty	Alternate Instructions	Technical Questions
Your supplier or roofing applicator	✓		
CertainTeed Home Institute 800-782-8777	✓	✓	
CertainTeed-RPG Technical Services 800-345-1145	✓	✓	✓

## FASTENING

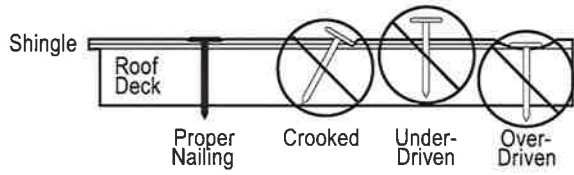


Figure 12-2: Proper and improper nailing.

**IMPORTANT:** For decks  $\frac{3}{4}$ " (19 mm) thick or thicker, nails must go at least  $\frac{3}{4}$ " (19 mm) into the deck. On thinner decks, nails must go at least  $\frac{1}{8}$ " (3.2 mm) through the deck.

Nails must be 11- or 12-gauge roofing nails, corrosion-resistant, with at least  $\frac{3}{8}$ " (9.5 mm) heads, and at least 1" (25 mm) long.

**LandMark TL** requires nails at least  $1\frac{1}{4}$ " long.

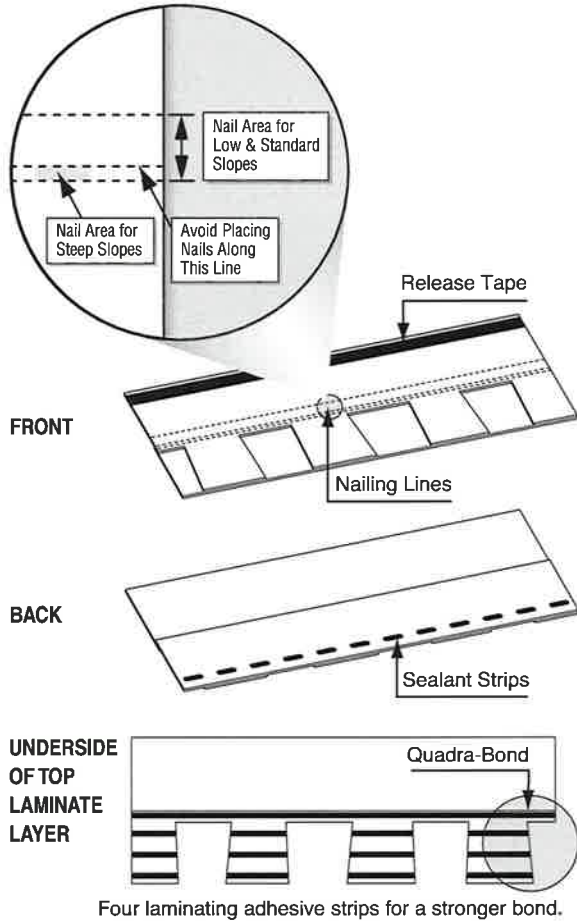
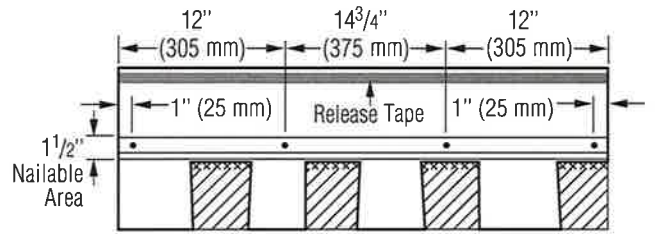


Figure 12-3: NailTrak™ features a wider nail area and extra-strong Quadra-Bond construction.

## LOW AND STANDARD SLOPE

### LANDMARK



### LANDMARK TL

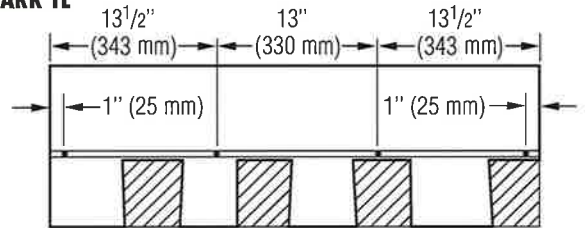
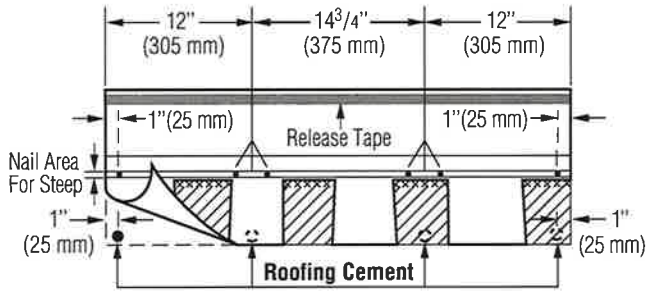


Figure 12-4: Use four nails for every full shingle.

## STEEP SLOPE

Use six nails and four spots of asphalt roofing cement for every full laminated shingle. See below. Asphalt roofing cement should meet ASTM D 4586 Type II. Apply 1" spots of asphalt roofing cement under each corner and at about 12" to 13" in from each edge.

### LANDMARK



### LANDMARK TL

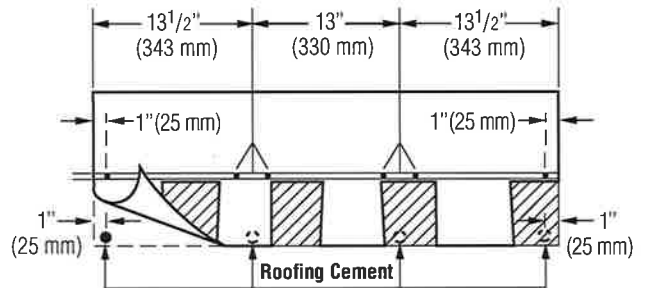


Figure 12-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

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

## TWO CLEAN-DECK APPLICATION METHODS FOR LANDMARK AND LANDMARK TL SHINGLES

### FIVE-COURSE DIAGONAL METHOD (6" AND 11") FIVE-COURSE DIAGONAL METHOD (5<sup>5</sup>/<sub>8</sub>" AND 11<sup>1</sup>/<sub>4</sub>")

**NOTE:** The 6" and 11" method is shown below. The 5<sup>5</sup>/<sub>8</sub>" and 11<sup>1</sup>/<sub>4</sub>" method follows the same application instructions as the 6" and 11" method except the dimensions of the shingle cut-offs in the second and third courses are 5<sup>5</sup>/<sub>8</sub>" and 11<sup>1</sup>/<sub>4</sub>" respectively.

**CAUTION:** Use of other installation methods may result in an objectionable pattern.

#### PREPARING THE DECK:

- ◆ Apply underlayment as required. CertainTeed suggests that a layer of shingle underlayment be applied. For UL fire rating, underlayment is generally required. Apply flat and unwrinkled.
- ◆ Snap chalklines to assure shingles will be correctly aligned. Expose all shingles 5<sup>5</sup>/<sub>8</sub>" (143 mm).

#### STARTER COURSE:

1. Use CertainTeed Swiftstart Starter, or three-tab self-sealing shingles with the lower tab portions removed. Be sure that the starter shingles are at least 7<sup>5</sup>/<sub>8</sub>" in height. (Figure 12-6).

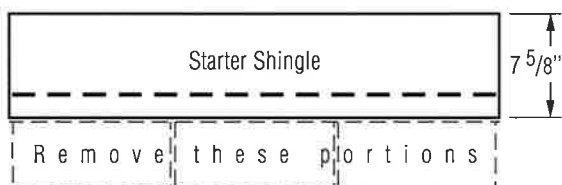


Figure 12-6: Make starter shingles that are 7<sup>5</sup>/<sub>8</sub>" in height.

2. For the first starter, cut 6" from one side of the starter shingle.
3. Apply the remaining piece to the lower left corner of the roof. Make sure there is 1/2" overhanging the rakes and eaves if drip edge is being used. If you are not using drip edge, make the overhang 3/4".
4. Use full length starter shingles for the rest of the course.

**1ST COURSE:** Apply a full shingle at the lower left corner of the roof. Make the lower edge and left edge lie flush with the edges of the starter course (Figure 12-7).

#### 2ND THROUGH 5TH COURSES:

**CAUTION!** Failure to follow instruction steps 1-5 below will bring joints too close together and may cause unattractive patterns!

1. Cut 6" off the left end of the first shingle and save this piece for later use. Apply the 32<sup>3</sup>/<sub>4</sub>" (34" for Landmark TL) long piece over and above the first-course shingle. Leave the bottom 5<sup>5</sup>/<sub>8</sub>" tab portion of the first-course shingle exposed.
2. Cut 11" off the first shingle of the third course and save this for later. Install the 27<sup>3</sup>/<sub>4</sub>" (29" for Landmark TL) long piece over and above the second-course shingle.
3. Apply the previously removed 11" long piece over and above the third-course shingle.
4. Apply the previously removed 6" long piece from the second course over and above the fourth-course shingle.
5. Install a full shingle against the right edge of each shingle in courses one through five.

#### CONTINUING UP THE ROOF:

1. Beginning again with a full shingle, repeat the five-course pattern up the left rake. (Figure 12-8, B).
2. Fill-in courses across the roof in a stepped diagonal fashion using full shingles. (Figure 12-8, A). Do **not** run courses straight across.

**IMPORTANT:** Do not align joints of shingles closer than 3<sup>1</sup>/<sub>2</sub>" from one another.

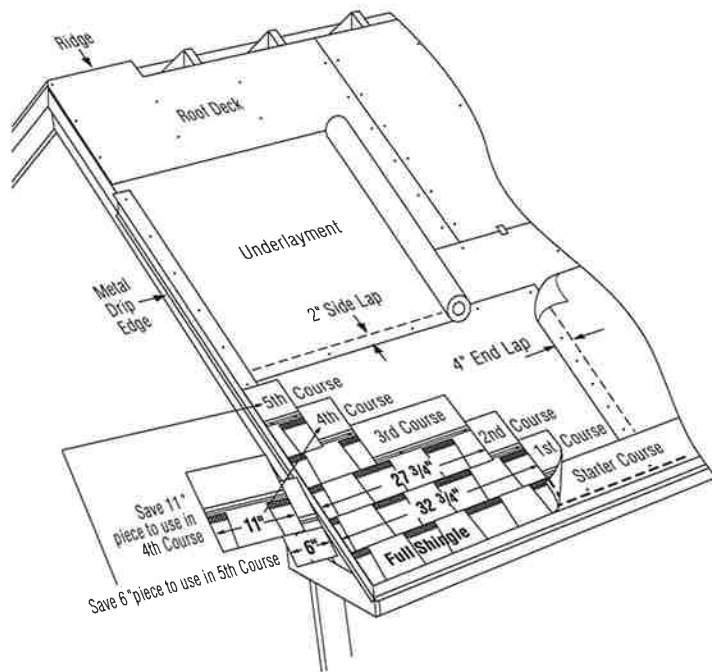


Figure 12-7: Applying the first 5 courses of Landmark.  
Note: The LandMark TL dimensions differ.

Figure 12-8: "Five-Course Diagonal Method" installation schematic.

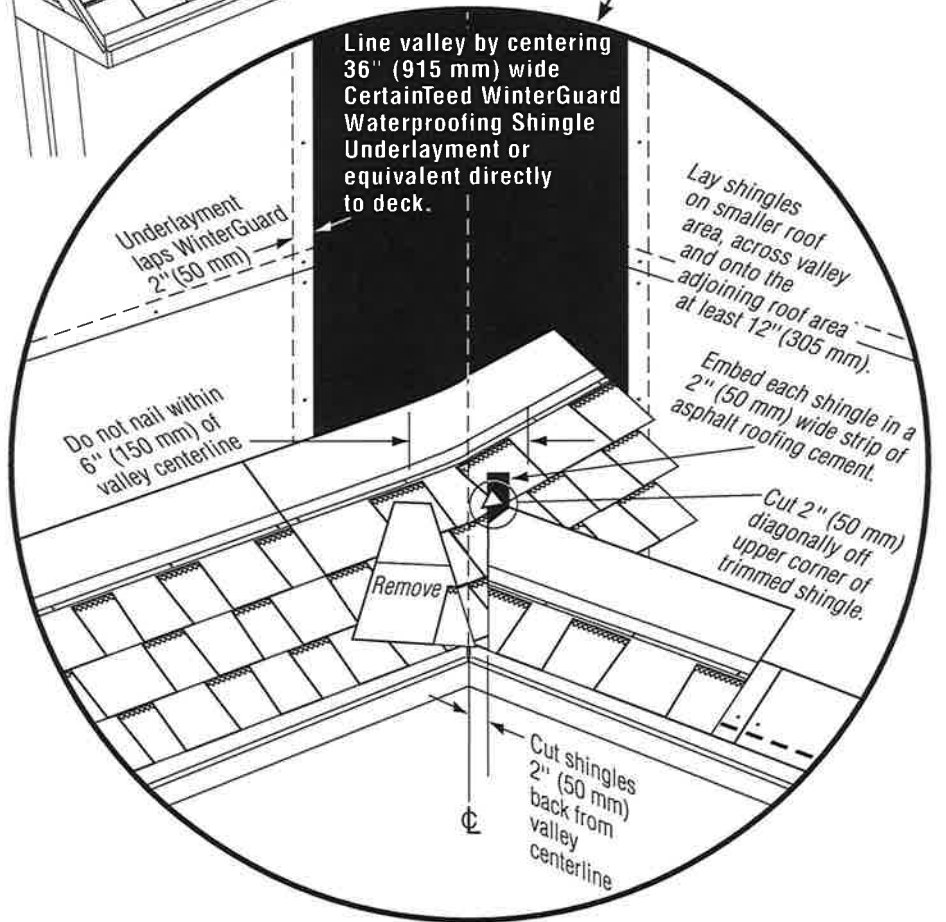
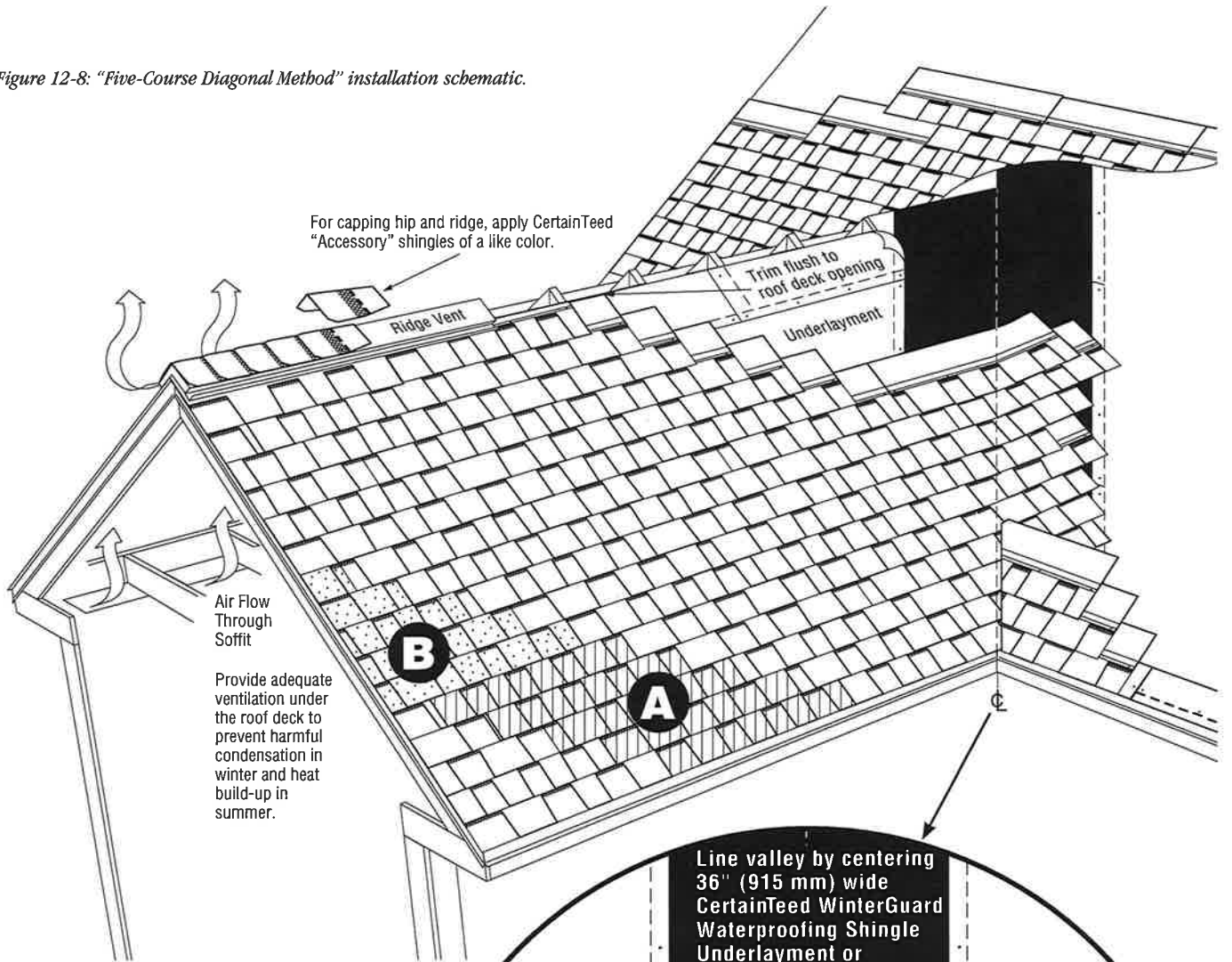


Figure 12-9: Highlight of closed-cut valley details.

## CHIMNEY FLASHING

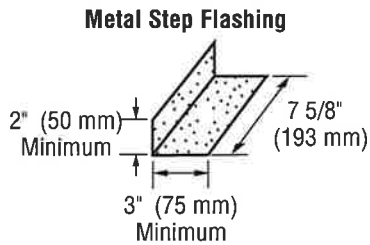


Figure 12-10: Step flashing minimum dimensions.

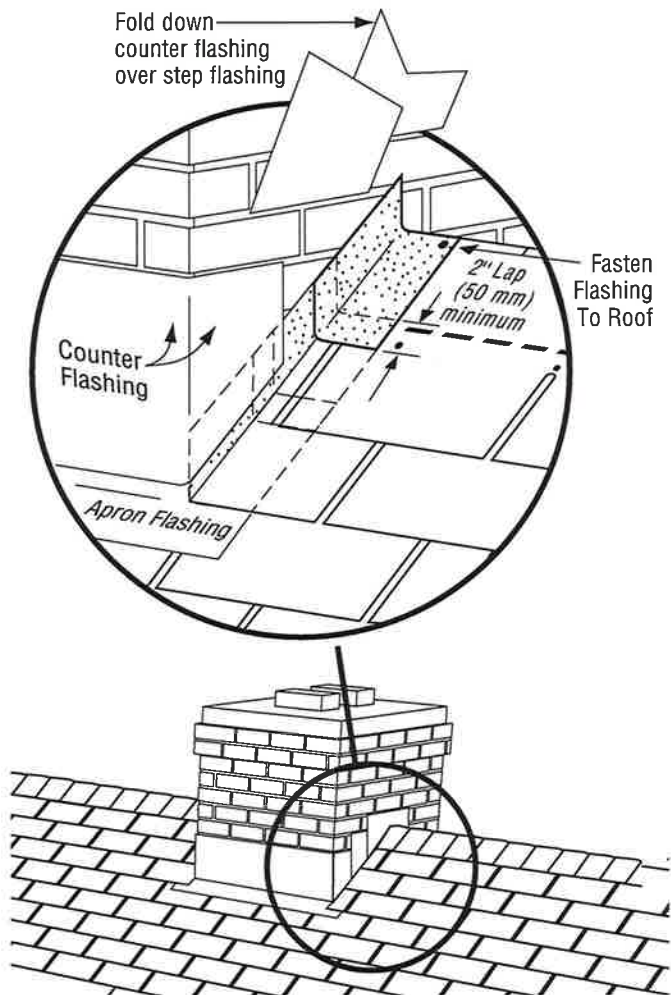


Figure 12-11: Flashing around a chimney.

## TWO ROOF-OVER METHODS FOR LANDMARK AND LANDMARK TL SHINGLES

The same methods used for clean-deck application of these shingles are used for roof-overs. Application of these shingles *over* English dimension shingles is not recommended — due to the high cost of workmanship and greater risk of worker error.

## HIPS AND RIDGES

### SHADOW RIDGE™ ACCESSORY SHINGLES

Shadow Ridge shingles have an accented shadow line that is designed to complement these shingles. Simply fold along the pre-cut lines and detach individual cap pieces. Save valuable installation time compared to cutting 3-tab shingles.

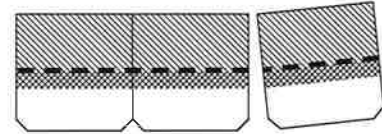


Figure 12-12: Shadow Ridge accessory shingles detach easily from three-piece units to make 72 individual cap pieces.

There are 24 three-piece units in each Shadow Ridge bundle, providing 72 individual caps that will cover 30 linear feet (33<sup>3</sup>/<sub>4</sub> linear feet, Metric) of a hip or ridge. Each English dimension cap piece is 12" by 12" (Metric caps are 13<sup>1</sup>/<sub>4</sub>" by 9<sup>7</sup>/<sub>8</sub>") and features clipped corners on the bottom edge of the exposed portion.

#### APPLICATION IS AS FOLLOWS:

1. Apply shingles up to the hip or ridge on both sides, then trim flush.

**NOTE:** The last course of shingles should have an exposure of 5" (5<sup>5</sup>/<sub>8</sub>" for metric) or less when the shingle cap or ridge vent is fastened in place. Otherwise, a potential water leak could occur at exposed shingle end joints. The figures used in this section illustrate the application of accessory shingles over a ridge vent; application directly to the roof deck is very similar.

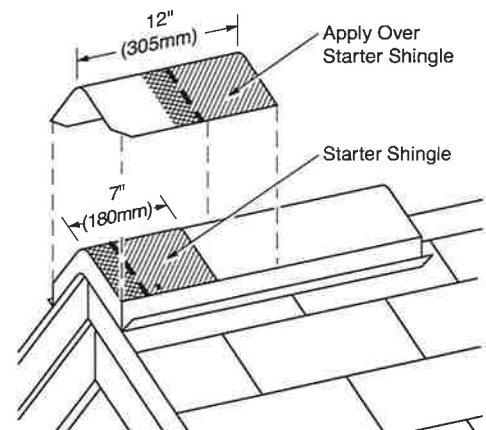


Figure 12-13: Apply a full cap shingle over the starter piece, flush with the bottom and side edges of the starter.

2. Install caps beginning at the bottom of a hip or at either end of a ridge. Apply a starter piece that has the bottom 5" (5<sup>5</sup>/<sub>8</sub>" for metric) removed (Figure 12-18). Fasten the starter with two nails located about 3" from the rake edge, and 1" from each side edge. Make sure fasteners used to apply caps penetrate at least <sup>3</sup>/<sub>4</sub>" into or through the decking.

**NOTE:** To assist in proper alignment when ridge vent is not used, snap a chalk line parallel to the hip or ridge along the line where the side edges of the cap shingles should be.



3. Apply a full cap shingle over the starter (Figure 12-18), and place fasteners at 5<sup>5</sup>/<sub>8</sub>" (6<sup>1</sup>/<sub>4</sub>" for metric) up from the exposed bottom edge and 1" in from each side. Nails must not be exposed on the finished roof. All nail heads must be driven straight and must not cut into the shingle surface.

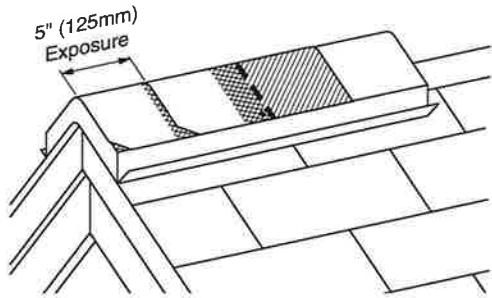


Figure 12-14: Install cap shingles at their correct exposure and cover all fasteners.

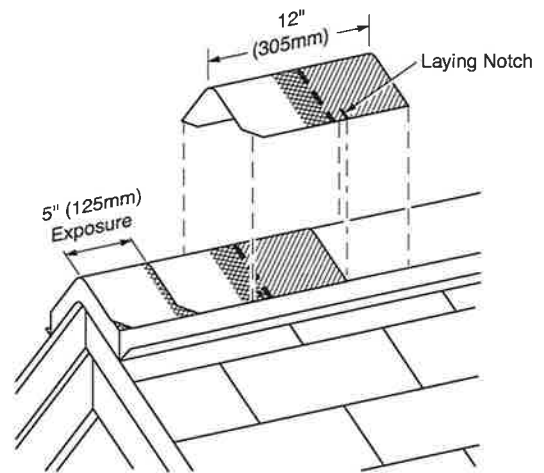
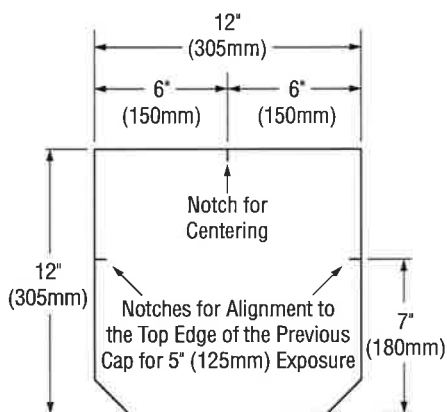
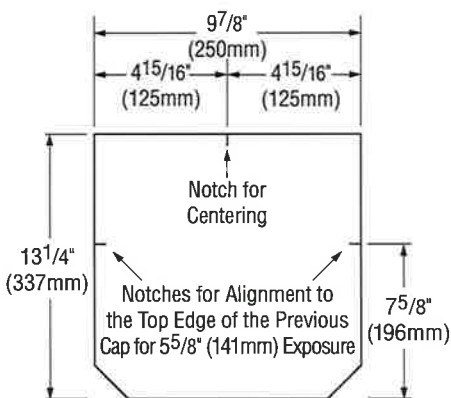


Figure 12-16: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

**NOTE:** Each cap has a laying/alignment notch at the top edge to center the piece on the ridge line, and two notches on each side to indicate the correct exposure and shadow-line placement (Figure 12-19). The side notches of the cap being applied should be aligned with the top edge of the previously applied cap.



English Dimension



Metric Dimension

Figure 12-15: Each Shadow Ridge shingle has a centering notch and two side-alignment notches to help ensure proper placement

## MOUNTAIN RIDGE HIGH-PROFILE HIP AND RIDGE ACCESSORY

Use Mountain Ridge accessory shingles to cover hips, ridges or rake edges. One box will cover 20 linear feet. To prevent damage to shingles during application, they must be sufficiently warm to allow proper forming.

### FASTENING

**IMPORTANT:** Use two nails to fasten each shingle. Nails must be **minimum 1<sup>3</sup>/<sub>4</sub>" (45 mm) long**. For the 4" (100 mm) starter shingle, place fastener 1" (25 mm) in from each side edge and about 2" (50 mm) from the rake (or eave) edge, making sure the fastener goes <sup>3</sup>/<sub>4</sub>" into the deck or all the way through. For each full Mountain Ridge shingle, place fasteners 8<sup>5</sup>/<sub>8</sub>" (219 mm) up from its exposed butt edge and 1" (25 mm) in from each side edge.

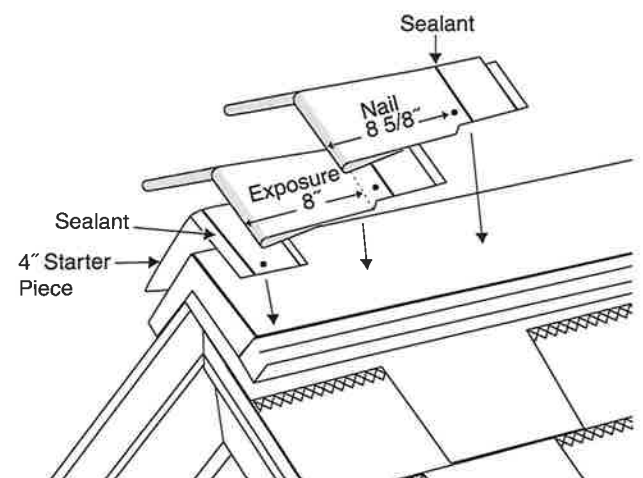


Figure 12-17: Hip and ridge application.

## HIP, RIDGE AND RAKE SHINGLE APPLICATION

Apply the primary field roofing up to the hip or ridge from both sides of the roof and trim flush or lap over one side, not more than half the width of a Mountain Ridge shingle.

Assure that the installed Mountain Ridge shingles properly cover hip and ridge field shingles on both sides and the field shingles applied along rake edges. For a rake edge installation, cut the field shingles flush to the rake edge. Apply Mountain Ridge shingles ensuring they fit securely against the rake board. **To assist in proper alignment, snap a chalk line parallel to the hip, ridge or rake along the line where the side edges of the Mountain Ridge shingles should fall.**

Prepare a 4" **Starter shingle** by cutting off the lower 8" color granule butt portion of one Mountain Ridge shingle. Apply the 4" starter piece (with sealant nearest the outer edge) over the bottom corner of the hip or rake, or on either end of the ridge, overhanging the corner or end by approximately 1/2" and bending the starter shingle along its centerline to form into place (*see figures below.*) Install a nail on each side about 2" up from the starter shingle's exposed butt edge and 1" in from each side edge of the shingle. The 8" piece that was cut off may be used to finish the opposite end of hip, ridge or rake.

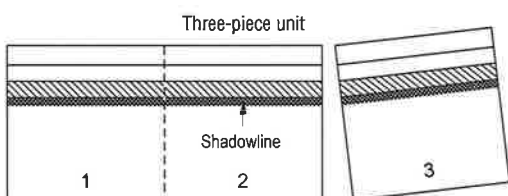
Next, apply a full Mountain Ridge shingle over the installed starter shingle, bending it along its centerline and forming into place over the hip, ridge or rake, flush with the bottom and side edges of the starter shingle. Install a nail on each side of the shingle 8 5/8" up from the bottom edge and 1" in from each side edge.

Continue application of the Mountain Ridge shingles along the hip, ridge or rake as shown. Expose Mountain Ridge shingles 8", covering all fasteners.

## CEDAR CREST MEDIUM-PROFILE HIP AND RIDGE ACCESSORY SHINGLES

Use Cedar Crest accessory shingles to cover hips and ridges. Carefully separate the three-piece units prior to application, by first folding along the pre-cut lines and then detaching the pieces (*see Figure 12-18*). No cutting is necessary. There are 30 individual shingles (10 three-piece units) in each bundle. One bundle will cover 20 linear feet. Each 12" x 12" shingle has a shadowline that is a design feature which is visible when applied properly. To prevent shingle damage during application, they must be sufficiently warm to allow proper forming.

Figure 12-18: Separate to make 3 cap shingles.



## FASTENING

**IMPORTANT:** Use TWO nails to fasten each shingle. Fasteners must be minimum 1-3/4" (45 mm) long.

For the starter shingle, place fastener 1" in from each side edge and about 2" up from the starter shingle's exposed butt edge, making sure fastener goes 3/4" into the deck or all the way through the deck. (*see Figure 12-19*). For each full Cedar Crest shingle, place fasteners 8-5/8" up from its exposed butt edge and 1" in from each side edge (*see Figure 12-20*).

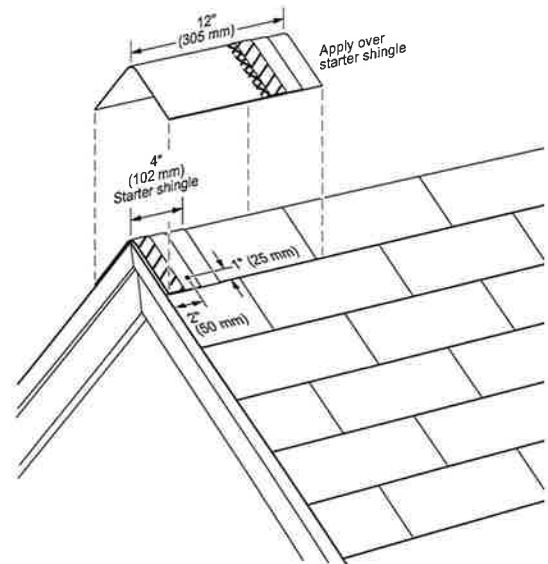


Figure 12-19: Apply a full cap shingle over the starter shingle.

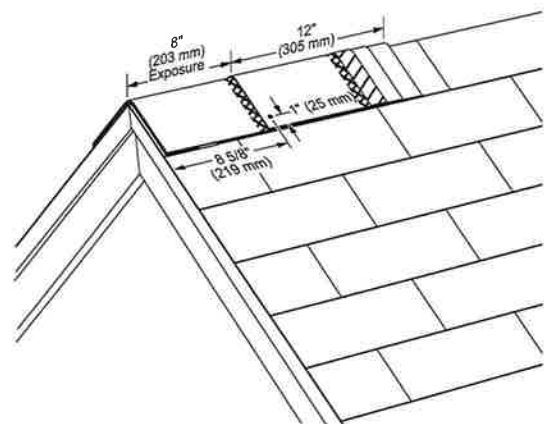


Figure 12-20: Install cap shingles at an 8" exposure and fasten with one nail on each side as shown.

**IMPORTANT: High Wind Instructions.** In order to achieve the ASTM D3161 Class “F” Wind Resistance Classification each “hip and ridge” shingle must be both 1) fastened with nails as shown and 2) hand-sealed with two 1/4" wide beads of either BASF “Sonolastic® NP1™ Adhesive” or Henkel “PL® Polyurethane Roof & Flashing Cement” applied from the middle of the shingle’s raised overlay on the top piece and extending approximately 4" along the sides of the headlap along a line 3/4"-1" in from each side edge of the shingle’s headlap as shown. Immediately align and apply the next overlying shingle, gently pressing tab sides into adhesive. Only one side of the double thickness tab is laminated together; to secure the other side, after folding the shingle over the ridge and nailing into position, a 1" diameter spot of either NP1 or PL adhesive must be applied between the shingle layers as shown. Immediately align and apply the next overlying shingle, gently pressing tab sides into adhesive.

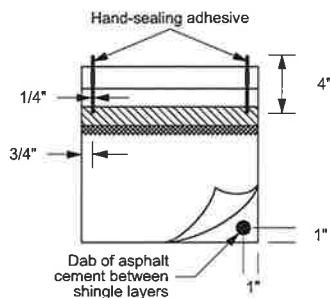


Figure 12-21: Hand seal caps as shown.

## CEDAR CREST APPLICATION

Apply primary roofing up to hip or ridge on both sides of roof and trim flush. Ensure that the Cedar Crest shingles will adequately cover the top course of the shingles on both sides of the hip or ridge. Prepare a 4" “starter” shingle by cutting off the lower 8" color granule portion of one Cedar Crest shingle. Apply the 4" starter piece with raised overlay edge over the bottom corner of the hip or to either end of the ridge, overhanging the corner or end by approximately 1/2" and bending the starter shingle along its centerline to form into place (see Figure 12-19). Install a nail on each side about 2" up from the starter shingle’s exposed butt edge and 1" in from each side edge of the shingle.

Then apply a full 12" x 12" piece over the starter, bending the shingle along its centerline and forming it into place over the hip or ridge, flush with the bottom and side edges of the starter shingle. Fasten with two nails minimum 1-3/4" long with one nail on each side of shingle 8 5/8" up from the butt edge and 1" in from each side edge (see Figure 12-20).

Continue application of Cedar Crest shingles up the hip or along the ridge, forming each shingle over the hip or ridge, and fasten as shown in Fastening. Expose Cedar Crest shingles 8", covering all fasteners.

To assist in proper alignment, snap a chalk line parallel to the hip or ridge applying along the line where the side edges of the Cedar Crest shingles should be.

*Here’s a Tip...* In the winter put hip and ridge cap shingles in your truck with the heater blasting for 20 minutes so the caps don’t crack when formed. (Thanks to Mark Dulz, Richmond, MI.)

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FL #	FL2533-R16
Application Type	Revision ✓
Code Version	2014 ✓
Application Status	Approved
Comments	
Archived	
Product Manufacturer	CertainTeed Corporation-Roofing
Address/Phone/Email	18 Moores Road Malvern, PA 19355 (610) 651-5847 mark.d.harner@saint-gobain.com
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Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Modified Bitumen Roof System
Compliance Method	Evaluation Report from a Florida Professional Engineer Evaluation Report - Hardcopy
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	07/03/2017
Validated By	John W. Knezevich, PE ✓ Validation Checklist - Hardcopy

Certificate of Independence

[FL2533 R16 COI 2016 01 COI](#)

Referenced Standard and Year (of Standard)

- Standard**  
 ASTM D6162  
 ASTM D6163  
 ASTM D6164  
 ASTM D6222  
 ASTM D6509  
 FM 4470  
 FM 4474

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

02/04/2016

Date Validated

02/15/2016

Date Pending FBC Approval

02/16/2016

Date Approved

04/12/2016

**Summary of Products**

FL #	Model, Number or Name	Description
2533.1	Flintlastic Modified Bitumen Roof Systems	Modified Bitumen Roof Systems
<p><b>Limits of Use</b>                      Approved for use in HVHZ: No                      Approved for use outside HVHZ: Yes                      Impact Resistant: N/A                      Design Pressure: +N/A/-630                      Other: 1.) Refer to ER Section 5 for Limits of Use.                      2.) The design pressure noted in this application relates to one specific system. Refer to the ER Appendix for all systems and max design pressures.</p>		<p><b>Installation Instructions</b>  <a href="#">FL2533 R16 II 2016 02 FINAL R16.pdf</a>                      Verified By: Robert Nieminen, P.                      Created by Independent Third Party</p> <p><b>Evaluation Reports</b>  <a href="#">FL2533 R16 AE 2016 02 FINAL R16.pdf</a>                      Created by Independent Third Party</p>

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**Product Approval Accepts:**



**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (See Notes 1 & 11)	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	
		Type	Attach	Type	Attach	Base	Ply		Cap
R-62	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 0.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA1	None	SBS-CA1	-105.0
R-63	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	3M CR-20	None	N/A	SBS-CA1	None	SBS-CA1	-105.0
R-64	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 0.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	3M CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	3M CR-20	SBS-CA1	None	SBS-CA1	-105.0

**TABLE 7B: RECOVER APPLICATIONS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Substrate (See Notes 1 & 11)	Primer	Roof Cover		MDP (psf)	
			Base	Cap		
R-65	Existing fully bonded BUR over concrete deck	(Optional) FlintPrime (ASTM D41)	SBS-CA1	None	SBS-CA1	-187.5

**COLD-APPLIED SYSTEMS:**

## Basic Application: Flintlastic SA Modified Bitumen

### Important Application Considerations

- Do not attempt application if ice, snow, moisture or dew are present. Bonding substrates must be clean, dry and free of dust or other inhibitors of proper adhesion. Ambient temperature must be 50°F or above.
- Store Flintlastic SA rolls indoors on pallets, protected from the elements. Rolls that are improperly stored or have been warehoused for prolonged periods of time may lose their tack.
- Do not apply membrane that has been improperly stored, exposed to moisture, or has lost its tack. If the material isn't bonding, STOP the application!
- Always remember to put safety first and follow all OSHA safety guidelines with any roofing installation.
- Substrates must be free of dust, dirt, oil, debris and moisture.
- Primer, if used, must be applied at the specified rate and must be allowed to thoroughly dry.
- Work with manageable lengths of MidPly and Cap for the particular job. Where appropriate, cut rolls into 1/3- or 1/2-roll lengths and allow material to relax prior to installation.
- In cooler weather, a hand-held hot air welding gun can be used to warm the sidelap areas and improve adhesion (prior to application of the FlintBond SBS Modified Bitumen Adhesive).
- Use caution with the weighted roller at endlap areas. Don't squeeze out too much adhesive.
- When applying MidPly (or PlyBase) directly to substrate, design adequate roof ventilation into the system through the use of roof relief vents.
- Do not mix Flintlastic SA membranes with other types of roof membranes. Flintlastic SA membranes are specifically designed to be applied together. The permanent top film of the MidPly, PlyBase and NailBase cannot receive torching, hot asphalt or other non selfadhering application methods. The Flintlastic SA Cap (or SA Cap FR), PlyBase and MidPly cannot be applied to any surfaces other than as described herein.
- Do not use cold adhesives with Flintlastic SA membranes other than for flashing details and cap sheet overlaps as described herein.
- Refer to the CertainTeed Commercial Roof Systems Manual for complete requirements.
- All plies of the assembly should be installed in one day. If blue film must be exposed for longer periods of time, cover with tarp or suitable alternate protection.



- When applying Flintlastic SA on slopes exceeding 1" in 12", membranes shall be back nailed. When applied parallel to the slope, Flintlastic SA shall be blind-nailed at end laps 2" in from top edge, 6" o.c. through tin discs and to wood nailers. See General Requirements Section of the CertainTeed Commercial Roof Systems Manual for details.

### Deck Preparation

CertainTeed recommends the use of Flintlastic SA NailBase base sheet in conjunction with all self-adhering membrane roof installations. Flintlastic SA NailBase can be mechanically attached to nailable substrates or applied using hot asphalt (non-nailable substrates). For non-nailable substrates where use of hot asphalt to adhere the base sheet may not be appropriate, Flintlastic SA MidPly or Flintlastic SA PlyBase may be used in lieu of Flintlastic SA NailBase on surfaces properly primed with FlintPrime™ SA. However, note that without the use of a base sheet, the membrane may be difficult to later remove (if necessary) and certain UL and FM listings for the products may not apply. Prior to application of Flintlastic SA products, ensure roofs have positive drainage. Consult the local building official for minimum slope and drainage requirements.

### Application of Flintlastic SA NailBase

Beginning at the low point of the roof, mechanically fasten Flintlastic SA NailBase to nailable deck using appropriate fasteners. Start with an appropriate roll width (1/3 or 1/2 roll) to accommodate offsetting of sidelaps of subsequent layers of MidPly and/or Cap sheet. Install so that no sidelaps are against the flow of water. A minimum fastening pattern is every 9" on center on sidelaps and every 18" on center in two staggered rows in the field of the sheet.



Prime non-nailable substrates such as concrete using FlintPrime SA polymer-based primer. Allow to dry thoroughly, but not more than 4 hours to retain tack-enhancing properties. Apply SA NailBase using ASTM Type III or IV hot asphalt\* at the rate of 25 lbs. per 100ft<sup>2</sup> (Spot mopping – 15 lbs. per 100ft<sup>2</sup>) or self-adhere SA PlyBase (or MidPly).



Overlap base sheet sidelaps 2" and endlaps 4". Offset endlaps a minimum of 3'. Turn base sheet over fascia. Do not leave installed base exposed. Cover in the same day with Flintlastic SA MidPly and/or Flintlastic SA Cap (or SA Cap FR).

Don't leave the installed Flintlastic SA NailBase exposed to the weather; cover with Flintlastic SA Cap the same day.

### **Application of Flintlastic SA Mid Ply or PlyBase to insulate decks**

SA MidPly or PlyBase may be adhered directly to mechanically fastened FlintBoard ISO or adhered to FlintBoard ISO Cold.

Before installing, sweep the surface of the insulation boards to remove any dust, dirt or sand particles that could interfere with adhesion.

Start application at the low point of the roof. Install flush to roof edge. Design layout so that no sidelaps are against the flow of water.

### **Application of Interply**

Note: Proceed to "Before Installing Flintlastic SA Cap (or SA Cap FR)" if installing a 2-ply system.

Before installing Flintlastic SA MidPly (or PlyBase), sweep the underlying base sheet or primed surface to remove any dust, dirt or sand particles that could interfere with adhesion.

Apply MidPly (or PlyBase) over installed Flintlastic SA NailBase or, for non-nailable decks such as concrete, properly primed substrates. Surface must be dry and free from dust or dirt.

Start MidPly (or PlyBase) application at the low point of the roof with appropriate roll width to offset sidelaps 18" from sidelaps of base sheet. Install flush to roof edge if over base sheet, otherwise turn the MidPly (or PlyBase) over the fascia minimum 2" and secure. Design layout so that no sidelaps are against the flow of water.

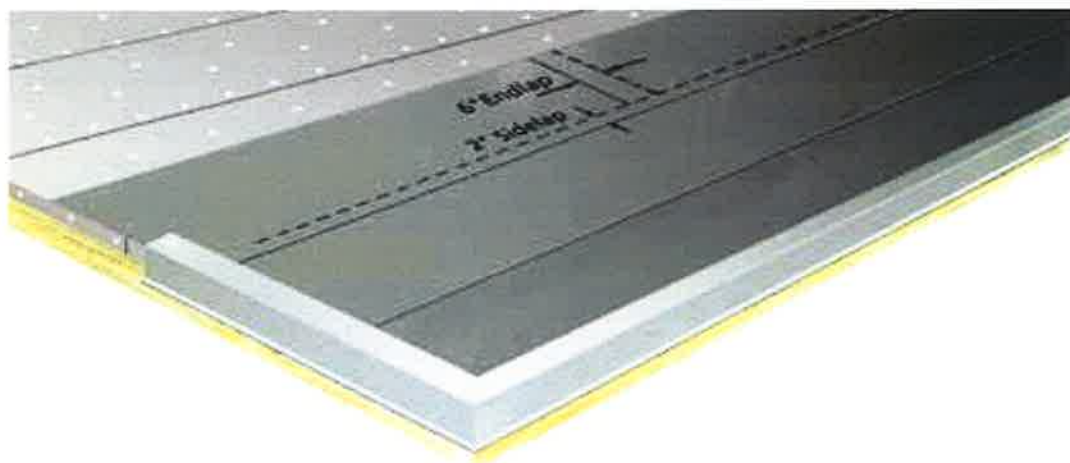
Cut rolls into manageable lengths. Fold the membrane back halfway lengthwise to remove the split release film. Press membrane securely into place, and repeat with the opposite half of the membrane. Use a heavy, weighted roller over the entire surface of the Flintlastic SA MidPly (or PlyBase) membrane to secure the membrane. Work outwards to eliminate voids.



Overlap sidelaps of subsequent MidPly (or PlyBase) membrane lengths 2" and endlaps 6". Offset (stagger) endlaps minimum 3'. Cut endlaps at opposing diagonal corners at an angle approximately 5-1/2" long by the selvage dimension from the corners to minimize "T"-seams. Apply a bead or small trowel dab (quarter size) of FlintBond™ SBS Modified Bitumen Adhesive, trowel or caulk grade, at the edge of the angled cut to avoid a capillary. Use of a hand-held hot air gun at the joint area prior to rolling the membrane will maximize adhesion. In areas prone to cold temperatures, snow and freeze-thaw cycles, it may be more effective to use the hot air gun to form joints, and to completely fill all mole holes with asphalt that has been slightly melted using the gun. It is recommended to apply a bead of FlintBond SBS Modified Bitumen Adhesive, caulk grade, at all MidPly (or PlyBase) side and endlaps to eliminate a capillary.

Don't leave the installed Flintlastic SA MidPly (or PlyBase) exposed to the weather; cover with Flintlastic SA Cap the same day.

### **Before Installing Flintlastic SA Cap (or SA Cap FR)**

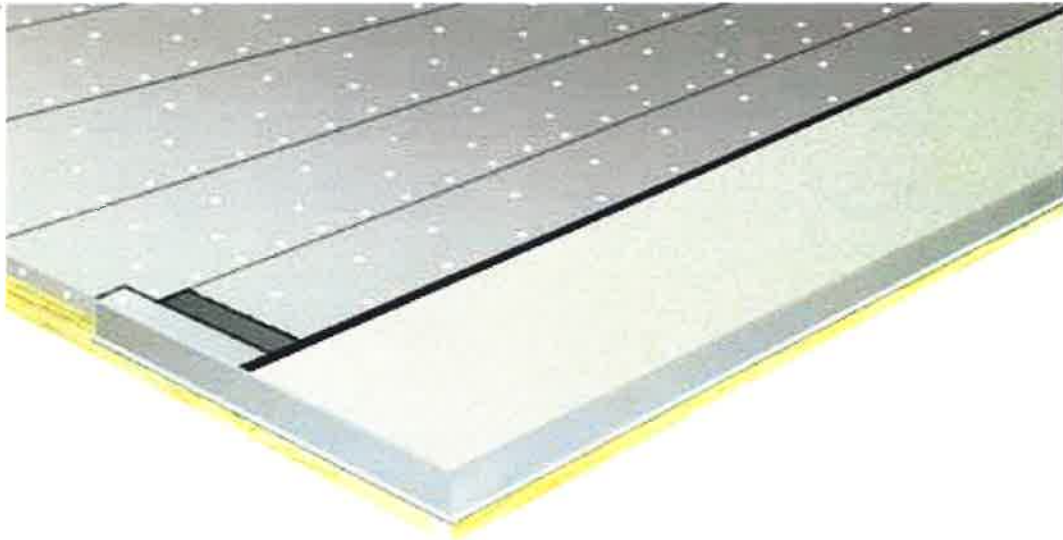


If roof edge detail utilizes edge metal, proceed as follows. If MidPly has been applied, install minimum 26 gauge edge metal using appropriate fasteners, and set entirely in a uniform 1/8"-1/4" thick troweling of FlintBond SBS Modified Bitumen Adhesive, trowel grade. Remove any oil from the metal surface using a vinegar and water solution. Prime the horizontal surface of the metal with FlintPrime SA and allow primer to dry. Apply a bead of caulk grade FlintBond adhesive to the edge of the metal where it meets the MidPly. Proceed with Flintlastic SA Cap (or SA Cap FR) installation.

If MidPly is not specified: Over the Flintlastic SA NailBase, install a 9" wide strip of MidPly onto the field of the roof and flush to the roof edge, self-adhered. Install minimum 26 gauge edge metal using appropriate fasteners, set entirely in a uniform 1/8"-1/4" thick troweling of FlintBond SBS

Modified Bitumen Adhesive, trowel grade. Remove any oil from the metal surface using a vinegar and water solution. Prime the horizontal surface of the metal with FlintPrime or FlintPrime SA and allow primer to dry. Apply a bead of caulk grade FlintBond SBS Modified Bitumen Adhesive at the roof side edge of the metal where it meets the MidPly strip. Proceed with cap sheet installation.

Similarly, complete your sheet metal flashing installation using cut MidPly flashing collars at flashing details prior to flashing application. Seal edges of MidPly flashing collars with a bead of FlintBond. See "Typical Construction Details," starting on page 41 for examples. If MidPly has been installed as part of the system, set flanges in trowel grade FlintBond and properly fasten. All cap sheet flashings installed to transitions that overlap onto mineral surface must be set in a uniform troweling of FlintBond trowel grade adhesive.



#### **Application of Flintlastic SA Cap (or SA Cap FR)**

Before installing Flintlastic SA Cap (or SA Cap FR), sweep the surface of the installed SA NailBase (or PlyBase) or MidPly clean. To install Flintlastic SA Cap (or SA Cap FR), start at the low point of the roof with an appropriate roll width to offset sidelaps from the underlying membrane a minimum of 18". Work with manageable lengths for proper handling.

Position SA Cap (or SA Cap FR) with selvage edge release strip at high side of roof. Install in weather-lapped fashion, with no laps against the flow of water.



Once positioned, lift and fold back (lengthwise) the lower half of the membrane. Remove the split release film and press firmly into place. Then repeat with the other (high side of the roof) half of the membrane.

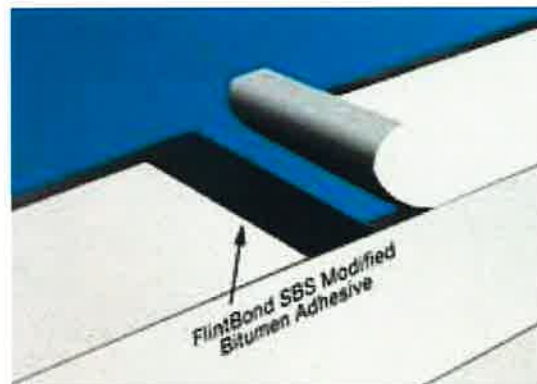
Follow the same layout and split release film procedures as for MidPly (or PlyBase), but overlap sidelaps 3" and endlaps 6". Use a weighted roller over the entire surface of Flintlastic SA Cap (or SA Cap FR) to secure it in place and prevent voids, working outward from the center of the sheet.

As subsequent membrane lengths are installed, remove the selvage edge release strip just prior to overlapping to keep the adhesive area protected and clean. Cut endlaps at opposing diagonal corners at an angle approx. 3" by 5-1/2" from the corners to minimize T-seams.

Use FlintBond SBS Modified Bitumen Adhesive, trowel grade, on the entire 6" width of each endlap prior to overlapping. Apply a uniform 1/8"-1/4" troweling of the FlintBond on the entire width of the endlaps to the underlying membrane. Install the overlapping sheet. Always apply FlintBond (extend beyond underlying lap minimum 1/4") on the entire width of any overlap when applying SA Cap (or SA Cap FR) over another mineral surface such as the SA Cap (or SA Cap FR) endlap.

At all vertical and other flashing points, apply FlintBond SBS Modified Bitumen Adhesive, trowel grade, wherever there is an overlap onto mineral surfacing.

Once the membrane has had a chance to bond, check all laps and joints for full adhesion. If the membrane can be lifted at any area it is not properly adhered. A seam probing tool can be helpful to check for small voids at laps.

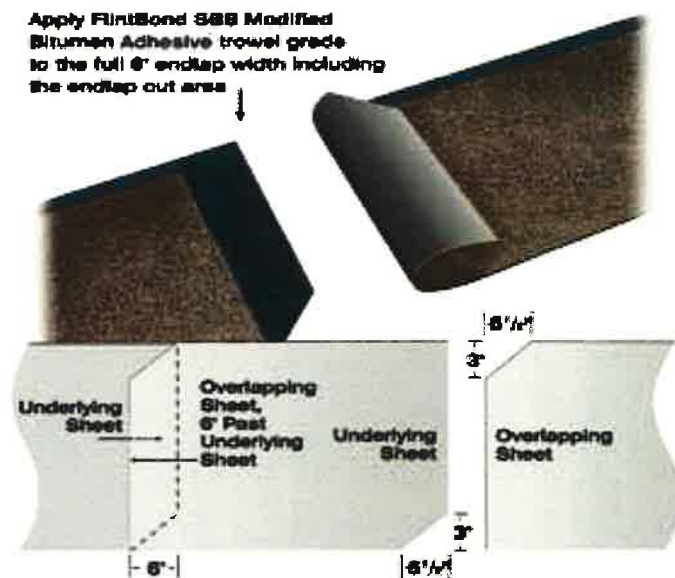


If necessary, use appropriate hand-held hot air welding tool and seam roller or an application of FlintBond to seal small unbonded areas if they exist.

Included in this manual are a few common construction details. Please refer to CertainTeed's standard details or the NRCA for details not found within this manual. Important to note with all details, all metal must be primed and set in FlintBond Trowel Grade adhesive and all overlaps over mineral surfacing must utilize FlintBond Trowel Grade adhesive.

### The Proper T-Seam Detail

- Before adhering Flintlastic SA MidPly or Cap (or SA Cap FR) endlaps, trim the underlying sheet's lower corner at the end of the roll.
- Follow with the overlapping sheet, trimming the upper outside corner.
- Corners should be trimmed on a diagonal angle 5½" long from end of roll to outside edge.
- Width of trim should be equal in width to the sidelap specified (3" for Flintlastic SA Cap [or SA Cap FR] and 2" for Flintlastic SA MidPly [or PlyBase]).
- Trimmed corners should be completely covered by application of succeeding courses.
- Note: If using Flintlastic SA MidPly (or PlyBase), apply quarter-size dab of FlintBond at T-seam area. If using Flintlastic SA Cap (or SA Cap FR), the endlap should be completely set in trowel grade FlintBond along the entire 6" lap width.



### Rake Edge Detail

- Cut selvage area at an angle at all rake edges.
- Apply a bead of FlintBond caulk along cut edge to eliminate mole holes.





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
1/5/2016

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

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must 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).

<b>PRODUCER</b> Lykes Insurance, Inc. P. O. Box 2879 Tampa FL 33601-2879		<b>CONTACT NAME:</b> Tanya Russo	
		<b>PHONE (A/C, No. Ext):</b> 813-470-5022	<b>FAX (A/C, No):</b> 813-221-1857
		<b>E-MAIL ADDRESS:</b> trusso@lykesinsurance.com	
		<b>INSURER(S) AFFORDING COVERAGE</b>	
		<b>INSURER A :Southern-Owners Insurance Co.</b>	
		<b>INSURER B :Auto-Owners Insurance</b>	
		<b>INSURER C :</b>	
		<b>INSURER D :</b>	
		<b>INSURER E :</b>	
		<b>INSURER F :</b>	
<b>INSURED</b> Over The Top Roofers, LLC Mr Jim Braddy 5036 Dr. Phillips Blvd. #296 Orlando FL 32819-3310		<b>NAIC #</b> 10190 18988	

**COVERAGES** CERTIFICATE NUMBER: 1333678591 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 INSR	WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<b>GENERAL LIABILITY</b>			20738691	1/20/2016	1/20/2017	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$300,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COM/POP AGG \$2,000,000 Hired/Non-Owned \$1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC						
B	<b>AUTOMOBILE LIABILITY</b>			4808669400	7/23/2015	7/23/2016	COMBINED SINGLE LIMIT (Ea accident) \$300,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ UMBRELLA LIAB OCCUR \$ EXCESS LIAB CLAIMS-MADE \$ DED RETENTION \$
	<input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB DED RETENTION \$						
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input type="checkbox"/> N/A						WC STATUTORY LIMITS OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

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

<b>CERTIFICATE HOLDER</b>  City of Belle Isle 1600 Nela Avenue Belle Isle FL 32809		<b>CANCELLATION</b>  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  
1/4/2016

<b>Producer:</b> Plymouth Insurance Agency 2739 U.S. Highway 19 N. Holiday, FL 34691 (727) 938-5562	<b>This Certificate is issued as a matter of information only and confers no rights upon the Certificate Holder. This Certificate does not amend, extend or alter the coverage afforded by the policies below.</b>												
<b>Insured:</b> South East Personnel Leasing, Inc. & Subsidiaries 2739 U.S. Highway 19 N. Holiday, FL 34691	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 80%;">Insurers Affording Coverage</th> <th style="width: 20%;">NAIC #</th> </tr> <tr> <td>Insurer A: Lion Insurance Company</td> <td style="text-align: center;">11075</td> </tr> <tr> <td>Insurer B:</td> <td></td> </tr> <tr> <td>Insurer C:</td> <td></td> </tr> <tr> <td>Insurer D:</td> <td></td> </tr> <tr> <td>Insurer E:</td> <td></td> </tr> </table>	Insurers Affording Coverage	NAIC #	Insurer A: Lion Insurance Company	11075	Insurer B:		Insurer C:		Insurer D:		Insurer E:	
Insurers Affording Coverage	NAIC #												
Insurer A: Lion Insurance Company	11075												
Insurer B:													
Insurer C:													
Insurer D:													
Insurer E:													

**Coverages**

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. Aggregate limits shown may have been reduced by paid claims.

INSR LTR	ADDL INSRD	Type of Insurance	Policy Number	Policy Effective Date (MM/DD/YY)	Policy Expiration Date (MM/DD/YY)	Limits																
		<b>GENERAL LIABILITY</b> <input type="checkbox"/> Commercial General Liability <input type="checkbox"/> Claims Made <input type="checkbox"/> Occur <hr/> General aggregate limit applies per: <input type="checkbox"/> Policy <input type="checkbox"/> Project <input type="checkbox"/> LOC				Each Occurrence \$ Damage to rented premises (EA occurrence) \$ Med Exp \$ Personal Adv Injury \$ General Aggregate \$ Products - Comp/Op Agg \$																
		<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> Any Auto <input type="checkbox"/> All Owned Autos <input type="checkbox"/> Scheduled Autos <input type="checkbox"/> Hired Autos <input type="checkbox"/> Non-Owned Autos				Combined Single Limit (EA Accident) \$ Bodily Injury (Per Person) \$ Bodily Injury (Per Accident) \$ Property Damage (Per Accident) \$																
		<b>EXCESS/UMBRELLA LIABILITY</b> <input type="checkbox"/> Occur <input type="checkbox"/> Claims Made Deductible				Each Occurrence Aggregate																
A		<b>Workers Compensation and Employers' Liability</b> Any proprietor/partner/executive officer/member excluded? <b>NO</b> If Yes, describe under special provisions below.	WC 71949	01/01/2016	01/01/2017	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><b>X</b></td> <td style="width: 70%;">WC Statutory Limits</td> <td style="width: 5%;"></td> <td style="width: 20%;">OTH-ER</td> </tr> <tr> <td></td> <td>E.L. Each Accident</td> <td></td> <td style="text-align: right;">\$1,000,000</td> </tr> <tr> <td></td> <td>E.L. Disease - Ea Employee</td> <td></td> <td style="text-align: right;">\$1,000,000</td> </tr> <tr> <td></td> <td>E.L. Disease - Policy Limits</td> <td></td> <td style="text-align: right;">\$1,000,000</td> </tr> </table>	<b>X</b>	WC Statutory Limits		OTH-ER		E.L. Each Accident		\$1,000,000		E.L. Disease - Ea Employee		\$1,000,000		E.L. Disease - Policy Limits		\$1,000,000
<b>X</b>	WC Statutory Limits		OTH-ER																			
	E.L. Each Accident		\$1,000,000																			
	E.L. Disease - Ea Employee		\$1,000,000																			
	E.L. Disease - Policy Limits		\$1,000,000																			

**Other**      **Lion Insurance Company is A.M. Best Company rated A- (Excellent). A.M.B. # 12616**

**Descriptions of Operations/Locations/Vehicles/Exclusions added by Endorsement/Special Provisions:** Client ID: 26-65-019  
 Coverage only applies to active employee(s) of South East Personnel Leasing, Inc. & Subsidiaries that are leased to the following "Client Company":  
**Over The Top Roofers, LLC**  
 Coverage only applies to injuries incurred by South East Personnel Leasing, Inc. & Subsidiaries active employee(s), while working in: FL.  
 Coverage does not apply to statutory employee(s) or independent contractor(s) of the Client Company or any other entity.  
 A list of the active employee(s) leased to the Client Company can be obtained by faxing a request to (727) 937-2138 or by calling (727) 938-5562.  
**Project Name:**  
 ISSUE 11-06-15 (TLD)

**Begin Date 10/12/2015**

<b>CERTIFICATE HOLDER</b> CITY OF BELLE ISLE  1600 NELA AVE. BELLE ISLE, FL 32809	<b>CANCELLATION</b> Should any of the above described policies be cancelled before the expiration date thereof, the issuing insurer will endeavor to mail 30 days written notice to the certificate holder named to the left, but failure to do so shall impose no obligation or liability of any kind upon the insurer, its agents or representatives.  <div style="text-align: right;"><i>John L. ...</i></div>
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This local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other lawful authorities. This receipt is valid from October 1 through September 30 of receipt year. **Delinquent penalty is added October 1.**

5000 BUSINESS OFFICE      2015      EXPIRES      9/30/2016      5000-1048108  
\$30.00      2      EMPLOYEE

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

BOVICH GREGG  
BRADY JAMES

OVER THE TOP ROOFERS LLC  
5036 DR PHILLIPS BLVD #296  
ORLANDO FL 32819

5036 DR PHILLIPS BLVD #296  
U - ORLANDO, 32819

PAID: \$30.00 0099-00674169 7/13/2015

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

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

5000 BUSINESS OFFICE      2015      EXPIRES      9/30/2016      5000-1048108  
\$30.00      2      EMPLOYEE

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



BOVICH GREGG  
BRADY JAMES

OVER THE TOP ROOFERS LLC  
5036 DR PHILLIPS BLVD #296  
ORLANDO FL 32819

5036 DR PHILLIPS BLVD #296  
U - ORLANDO, 32819

PAID: \$30.00 0099-00674169 7/13/2015

This receipt is official when validated by the Tax Collector.

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

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

LICENSE NUMBER	
CCC1328358	

The ROOFING CONTRACTOR  
Named below IS CERTIFIED  
Under the provisions of Chapter 489 FS.  
Expiration date: AUG 31, 2016



BOVICH, GREGORY CHARLES  
OVER 'THE' TOP ROOFERS LLC  
5512 SAGO PALM DRIVE  
ORLANDO FL 32819



ISSUED: 07/20/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1407200001433