



City of Belle Isle

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

PERMIT CARD - PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

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

Scope of Work: ROOF: Re-roof 3400 sq ft asphalt shingles

Comments: None

Project Information

Address: 4114 Kandra Ct, Belle Isle, FL 32809

Parcel ID: 20-23-30-1646-00-520

Property Owner: Robinson, Kevin

Phone Number: None

Company Name: Advantage Roofing, Inc.

Contractor Name: Ringler, Thomas Harvey

License Number: CCC052477

Address: 6903 Partridge Lane Orlando, FL 32807

Phone Number: 407-678-9721

Permit Number: 2015-04-022

Date of Application: 04/10/2015

Date Permit Issued: 04/10/2015

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

BUILDING FEATURES

IMPACT FEES

School \$
Traffic \$

ZONING FEES

Zoning Fee \$30.00

UNIVERSAL ENG - BUILDING FEES

Cert of Occ \$
Demo \$
Building \$
Fence \$
Driveway \$
Shed \$
Window(s) \$
Door(s) \$
PrePower \$
Electrical \$
Temp Pole \$
Plumbing \$
Mechanical \$
Gas \$
Roofing \$75.00
Boat Dock \$
Screen Encl \$
Swimming Pool \$
Sign \$

SURCHARGE FEES

Surcharge Fee \$2.00
Surcharge Fee \$2.00

TOTAL FEES \$109.00

Date Paid 4-10-15

CC or Check # VISA 9200

Amount Paid 109.00

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

BUILDING INSPECTOR USE ONLY

IF APPLICABLE:

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

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

BUILDING

- 1st _____ (Footing/Foundation)
Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? _____
- 2nd _____ (Slab)
- 3rd _____ (Lintel)(Wall Reinforcing on Masonry Building)
- 4th _____ (Exterior Framing)(Roof/Wall Sheathing)
- 5th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)
- 6th _____ (Insulation to be Made After Roof Installed)
- 7th _____ (Drywall)
- 8th _____ (Sidewalk/Driveway)
- 9th _____ (Other)
- 10th _____ (Final - After MEP and Other Applicable Finals)

ROOFING

- 1ST ROOFING Deck Nailing/Dry-in/Flashing _____
- 2nd ROOFING Covering In-Progress _____
- 3rd ROOFING Covering Final _____

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

- 1ST _____ (Underground) 2nd _____ (Sewer)
- 3rd _____ (Rough-In/Tub Set) 4th _____ (Final)

CHECK APPROPRIATE BOX

GAS Natural LP MECHANICAL ELECTRICAL LOW VOLTAGE

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

Inspection requests are to be emailed to BDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. **Next-Day Inspection requests must be made by 1pm.** 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/f/fo94edc4-832d-44bd-9809-ecf32f9e2e63>

login ID = cobi@universalengineering.com

password = universal13



City of Belle Isle

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Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED
4-10-15

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: 4.9.15 ROOF PERMIT NUMBER 2015-04-022

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

Project Address 4114 Kandra Ct, Belle Isle, FL 32809 32812
Property Owner Kevin Robinson Phone _____
Property Owner's Mailing Address SAME City _____
State _____ Zip Code _____ Parcel Id Number: 20-23-30-1646-00-520

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 Roof ReRoof

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

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

Roof Square Footage: 34 Number of Stories: 1 Job Valuation: \$ 10,490.00
Type: Asphalt Shingles Metal Modified Bitumen Other: _____

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

LICENSE HOLDER SIGNATURE Thomas Ringler LICENSE # CC052477
LICENSE HOLDER NAME Thomas Ringler COMPANY NAME Advantage Roofing Inc
Street Address 6903 Portridge Lane
City Orlando State FL Zip Code 32807 Phone Number 407-678-9721
Email Address advantageroofing@yahoo.com

Building Official: scg Date 4-10-15
Verified Contractor's Licenses & Insurance are on file [Signature] Date 4-10-15

Zoning Fee	\$ <u>30.00</u>
Permit Fee	\$ <u>75.00</u>
Review Fee	\$ <u>n/a</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. Building Permit Number _____

Permit Number: 2015-04-022
 Folio/Parcel ID #: 20.23-30-1646-00-520
 Prepared by: Rose Smith
 Return to: Contractor

DOCH 20150160324 B: 10896 P: 9339
 03/31/2015 10:47:20 AM Page 1 of 1
 Rec Fee: \$10.00
 Martha O. Haynie, Comptroller
 Orange County, FL
 MB - Ret To: ADVANTAGE ROOFING INC



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)
Conway East 4/122 Lot 52
- General description of improvement**
Roof
- Owner information or Lessee information if the Lessee contracted for the improvement**
 Name Kevin Robinson
 Address 4114 Kandra Ct Belle Isle, FL 32817
 Interest in Property _____
 Name and address of fee simple titleholder (if different from Owner listed above)
 Name _____
 Address Advantage Roofing Inc.
- Contractor**
 Name 6903 Partridge Lane Telephone Number _____
 Address Orlando, FL 32807
- Surety** (if applicable, a copy of the payment bond is attached)
 Name 407-678-9721 Telephone Number _____
 Address _____ Amount of Bond \$ _____
- Lender**
 Name _____ Telephone Number _____
 Address _____
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
 Name _____ Telephone Number _____
 Address _____
- In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
 Name _____ Telephone Number _____
 Address _____
- Expiration date of notice of commencement** (the expiration date will be 1 year from the date of recording unless a different date is specified) _____

State of Florida, County of Orange
 I hereby certify that this is a true and correct copy of the document as recorded in the office of Martha O. Haynie, Comptroller, Orange County, Florida.
 Martha O. Haynie, Comptroller
 Orange County, Florida
 Notary Seal: ROSE A SMITH, Notary Public, State of Florida, Commission # EE871629, Expires March 24, 2017

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.

Kevin Robinson
 Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager Signatory's Title/Office

The foregoing instrument was acknowledged before me this 23 day of 3/15 by Kevin Robinson
 as _____ for _____
 Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed

Rose Smith
 Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public

Personally Known _____ OR Produced ID ✓
 Type of ID Produced D.L.





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Product Approval Form

DATE: 4.9.15

PERMIT # _____

PROJECT ADDRESS 4114 Kendra Ct

Belle Isle, FL 32809 32812

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

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

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbf Hung				Asphalt Shingles	<u>Certa. nted</u>		<u>FL 54447</u>
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Other			
Skylights							
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 Thomas Rangle

Date 4.9.15



Business Professional



Product Approval
USER Public User

License/Entity/Registration

Product Approval Ready > [View All Submitted Applications](#) > [All Submitted](#) > Application Detail

FL #	FL5444-R7								
Application Type	Revision								
Code Version	2010								
Application Status	Approved								
Comments	Archived								
Product Manufacturer	CertainTeed Corporation-Roofing								
Address/Phone/Email	18 McGee's Road Malvern, PA 19355 (610) 651-5847 mark.d.harner@certainteed.com								
Authorized Signature	Mark Harner mark.d.harner@certainteed.com								
Technical Representative	Steven Lawrey								
Address/Phone/Email	1400 Union Meeting Road Blue Bell, PA 19422 (215) 274-2425 Steven.T.Lawrey@saft-hood.com								
Quality Assurance Representative									
Address/Phone/Email									
Category	Roofing								
Subcategory	Asphalt Shingles								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen								
Florida License	PE-59156								
Quality Assurance Entity	UT LLC								
Quality Assurance Contract Expiration Date	07/03/2017								
Validated By	John W. Knezevich, PE Validation Checklist - Hardcopy Received								
Certificate of Independence	FL5444-R7-001-2011-01-03- Nieminen.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM D3161, Class F</td> <td>2006</td> </tr> <tr> <td>ASTM D3162</td> <td>2007</td> </tr> <tr> <td>ASTM D2158, Class F</td> <td>2007</td> </tr> </tbody> </table>	Standard	Year	ASTM D3161, Class F	2006	ASTM D3162	2007	ASTM D2158, Class F	2007
Standard	Year								
ASTM D3161, Class F	2006								
ASTM D3162	2007								
ASTM D2158, Class F	2007								
Equivalence of Product Standards Certified By									
Sections from the Code									

TRINITY ERD

EXTERIOR RESEARCH & DESIGN, LLC.
Certificate of Authorization #9503
353 CHRISTIAN STREET, UNIT #13
OXFORD, CT 06478
PHONE: (203) 262-9245
FAX: (203) 267-9243

EVALUATION REPORT

CertainTeed Corporation
1400 Union Meeting Road
Blue Bell, PA 19422

Evaluation Report 3532.09.05-R8
FL5444-R7
Date of Issuance: 09/22/2005
Revision 8: 05/05/2014

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 designed to comply with the 2010 Florida Building Code.

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 11.

Prepared by:



Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The Engineer's seal appearing was authorized by Robert Nieminen, P.E. on 05/05/2014. 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.

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	2007
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161, Class F	2006
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158, Class H	2007

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	10CA11303	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	TFW/R684	04/22/2014
UL LLC (TST 9628)	ASTM D7158	GAH/R684	04/22/2014
UL LLC (QUA 9625)	Quality Control	Service Confirmation	Exp. 02/13/2016

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

5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in the HVHZ.
- 5.2 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.3 Wind Classification:
- 5.3.1 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.
- 5.3.2 Presidential Accessory, Accessory for Hatteras, Shangle Ridge, Shadow Ridge and Cedar Crest hip & ridge shingles have been evaluated in accordance with ASTM D3161, Class F when BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant, applied as specified in manufacturer's application instructions, indicating the shingles are acceptable for use in all wind zones up to $V_{asd} = 150$ mph ($V_{ult} = 194$ mph).
- 5.3.3 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.
- 5.3.3.1 Analysis in accordance with ASTM D7158 indicates the measured uplift resistance (R_r) for the CertainTeed asphalt roofing shingles listed in Section 4.1 through 4.5 exceeds the calculated uplift force (F_r) 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 modified fastening requirements established within any local jurisdiction, which shall take precedence.
- 5.4 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

ENGLISH

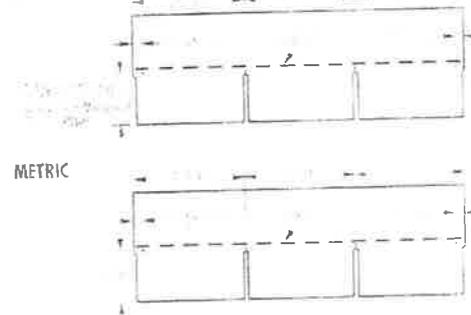
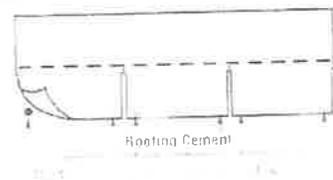


Figure 11.1 - Four nails per shingle

STEEP SLOPE

Use four nails and sealant at each fastening point. Sealant shall be a roofing sealant meeting ASTM D3555 or equivalent.



Use four nails and sealant at each fastening point. Sealant shall be a roofing sealant meeting ASTM D3555 or equivalent.

6.3.1.1 Hip & Ridge: Cut Shingles

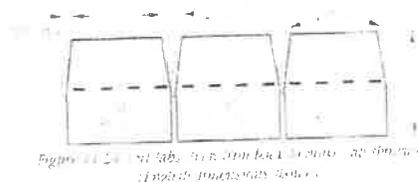


Figure 11.2 - Cut tabs fit snug back to edge - all shingles

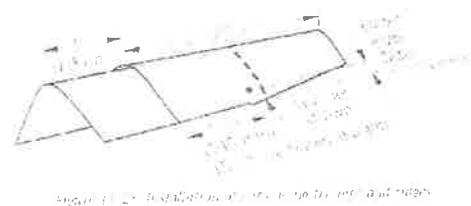


Figure 11.2 - Installation of shingles on hip and ridge

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

See Figures 1-17 and 1-18



Figure 1-17: Cross-section diagram of a roof assembly for low and standard slope.

STEEP SLOPE

When a roof is steep, the shingles are held in place by the weight of the shingles above them. The shingles are held in place by the weight of the shingles above them. The shingles are held in place by the weight of the shingles above them. The shingles are held in place by the weight of the shingles above them.

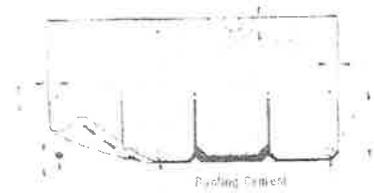


Figure 1-18: Cross-section diagram of a roof assembly for steep slope.

6.3.2.1 Hip & Ridge: Shingle® Ridge



Figure 1-18: Shingle Ridge



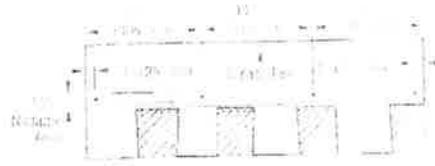
Figure 1-19: Diagram of Shingle Ridge Straps

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

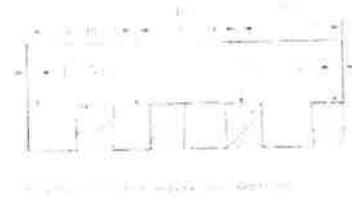
6.3.3 **Landmark™, Landmark™ IR, Landmark™ Pro (formerly Landmark™ Plus), Landmark™ Premium, Landmark™ TL, Landmark™ Solaris, Landmark™ Solaris IR:**

LOW AND STANDARD SLOPE

METRIC DIMENSIONS



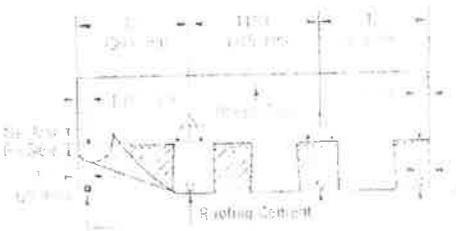
LANDMARK TL



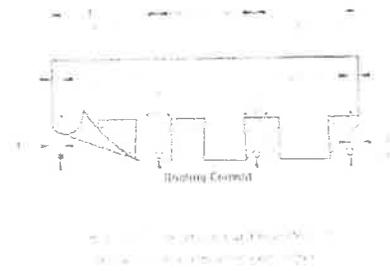
STEEP SLOPE

Use a rafter and four-ply of sheathing on steep slopes. Use a rafter and four-ply of sheathing on steep slopes. Use a rafter and four-ply of sheathing on steep slopes. Use a rafter and four-ply of sheathing on steep slopes.

METRIC DIMENSIONS



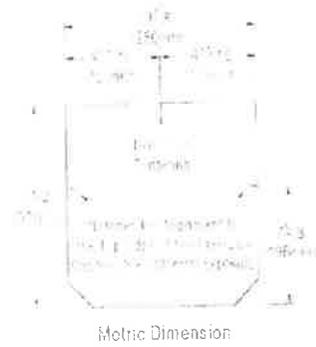
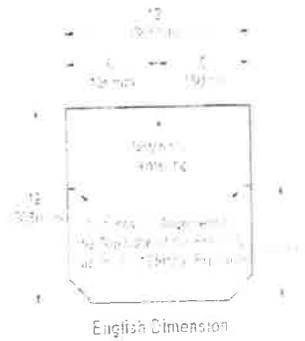
LANDMARK TL



6.3.3.1 Hip & Ridge, Option 1: Shadow Ridge™



Figure 13-16 Shadow Ridge™ hip and ridge construction. Note: Use a rafter and four-ply of sheathing on steep slopes. Use a rafter and four-ply of sheathing on steep slopes.



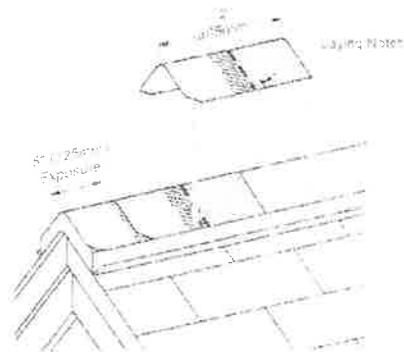
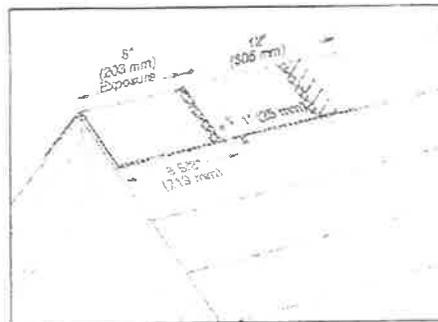


Figure 1. 2011 Building Code Book, R-10, Cedar Crest shingles, in hip and ridge, and to be used for non-wood shingles.

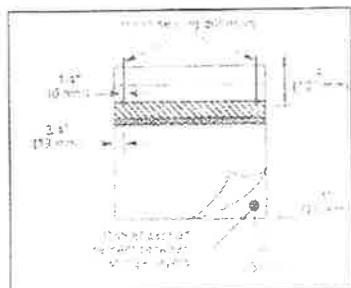
Note: For ASTM D3161 - Class F, use BASF Soudastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

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 Soudastic 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 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 3/4-inch diameter spot of NP 1 or PL adhesive between the shingle layers.



6.3.5.1 Hip & Ridge, Option 1: Accessory for Hatteras

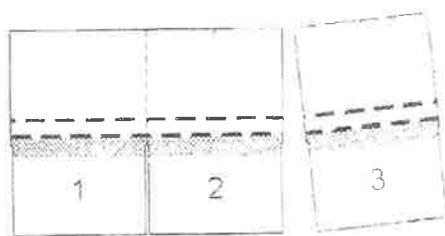
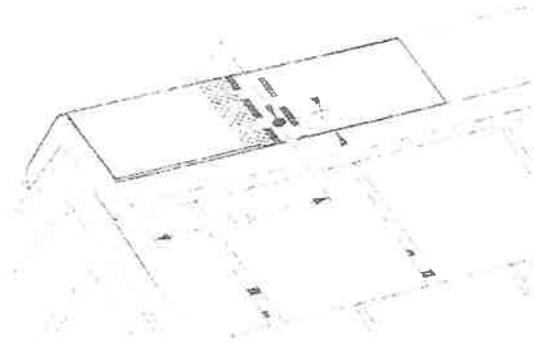


Figure 15-17: 18 Two-face panels separate to make 54 Hatteras accessory shingles



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

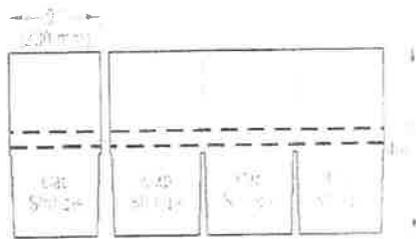


Figure 15-20: Cut Hatteras shingles to make caps

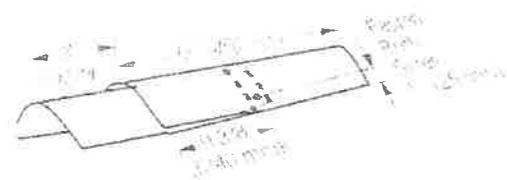


Figure 15-21: Installation of caps along hips and ridges

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

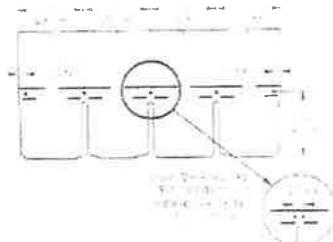


Figure 11-1: Highland Slate™ Shingle Installation

STEEP SLOPE

Use 4x4 minimum **EIGHT** shingles (up to 4 shingles) per row with 1/2" overlap. For Maximum **SIX** nails are required. Apply 1/2" overlap on all sides. (See Figure 11-2)

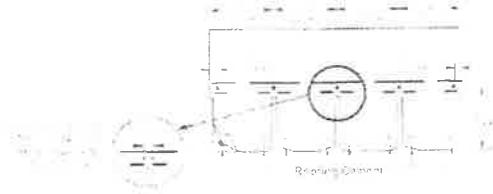


Figure 11-2: Highland Slate™ Shingle Installation on Steep Slope

CAUTION: Do not use nails with a length greater than 1 1/2" on steep slopes.

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

6.3.7 **Patriot™:**

LOW AND STANDARD SLOPE

Use 1/2" overlap on all sides. (See Figure 11-3)



STEEP SLOPE

Use 1/2" overlap on all sides. (See Figure 11-4) Use 4x4 minimum **EIGHT** shingles (up to 4 shingles) per row with 1/2" overlap on all sides. (See Figure 11-4)

CAUTION: Do not use nails with a length greater than 1 1/2" on steep slopes.



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