



# 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.

<p><b>Scope of Work:</b> ROOF: re-roof 2640 sq ft of asphalt shingles</p> <p><b>Comments:</b> None</p> <p><b>Project Information</b>        Address: 1738 Pam Circle, Belle Isle, FL 32809        Parcel ID: 30-23-30-0610-01-120        Property Owner: Tommasini, Parbatie        Phone Number: 407 579 5496        *****        Company Name: DRS of Central Florida, Inc        Contractor Name: Rao, Richard        License Number: CCC057239        Address: 6107 Anno Ave, Orlando, FL 32809        Phone Number: 407-240-1225</p>	<p style="text-align: right;"><b>Permit Number: 2015-08-029</b></p> <p style="text-align: right;">Date of Application: <u>08/12/2015</u>        Date Permit Issued: <u>08/12/2015</u></p> <p><b>WARNING TO OWNER:</b> "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.</p>
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### BUILDING FEATURES

<p><b>IMPACT FEES</b></p> <p>School \$        Traffic \$</p> <p><b>ZONING FEES</b></p> <p>Zoning Fee \$30.00</p> <p><b>UNIVERSAL ENG - BUILDING FEES</b></p> <p>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 \$</p> <p><b>SURCHARGE FEES</b></p> <p>Surcharge Fee \$2.00        Surcharge Fee \$2.00</p> <p style="text-align: center;"><b>TOTAL FEES \$99.00</b></p> <p>Date Paid <u>8-12-15</u></p> <p>CC or Check # <u>10305</u></p> <p>Amount Paid <u>anw</u></p> <p>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).</p>	<p style="text-align: center;"><b>BUILDING INSPECTOR USE ONLY</b></p> <p>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</p> <p><b>BUILDING</b></p> <p>1<sup>st</sup> _____ (Footing/Foundation)        Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? ____</p> <p>2<sup>nd</sup> _____ (Slab)</p> <p>3<sup>rd</sup> _____ (Lintel)(Wall Reinforcing on Masonry Building)</p> <p>4<sup>th</sup> _____ (Exterior Framing)(Roof/Wall Sheathing)</p> <p>5<sup>th</sup> _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins &amp; Windows/Doors Installed)</p> <p>6<sup>th</sup> _____ (Insulation to be Made After Roof Installed)</p> <p>7<sup>th</sup> _____ (Drywall)</p> <p>8<sup>th</sup> _____ (Sidewalk/Driveway)</p> <p>9<sup>th</sup> _____ (Other)</p> <p>10<sup>th</sup> _____ (Final – After MEP and Other Applicable Finals)</p> <p><b>ROOFING</b></p> <p>1<sup>ST</sup> ROOFING Deck Nailing/Dry-in/Flashing _____</p> <p>2<sup>nd</sup> ROOFING Covering In-Progress _____</p> <p>3<sup>rd</sup> ROOFING Covering Final _____</p> <p><b>PLUMBING</b> (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)</p> <p>1<sup>ST</sup> _____ (Underground)    2<sup>nd</sup> _____ (Sewer)</p> <p>3<sup>rd</sup> _____ (Rough-In/Tub Set)    4<sup>th</sup> _____ (Final)</p> <p><b>CHECK APPROPRIATE BOX</b></p> <p><input type="checkbox"/> GAS <input type="checkbox"/> Natural <input type="checkbox"/> LP    <input type="checkbox"/> MECHANICAL    <input type="checkbox"/> ELECTRICAL    <input type="checkbox"/> LOW VOLTAGE</p> <p>1<sup>st</sup> _____ (Rough-In)    2<sup>nd</sup> _____ (Final)</p>
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Inspection requests are to be emailed to [BDscheduling@UniversalEngineering.com](mailto: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](mailto:cobi@universalengineering.com)

password = universal13



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32812  
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## 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: 8-12-15 ROOF PERMIT NUMBER: 205-08-029

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

Project Address 1738 Pam Cir, Belle Isle, FL  32809  32812

Property Owner Parbatie Tommasini Phone 407-579-5496

Property Owner's Mailing Address 1738 Pam Cir City Belle Isle

State FL Zip Code 32809 Parcel Id Number: 30-23-30-0610-01-120

REQUIRED! To obtain this information, please visit <http://www.ocpaf.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](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: 2640 Number of Stories: 1 Job Valuation: \$ 7,165.00

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 [Signature] LICENSE # CC-C057239

LICENSE HOLDER NAME Richard Rao COMPANY NAME DRS Of Central Florida

Street Address 6107 Anno Ave

City Orlando State FL Zip Code 32809 Phone Number 407-240-1225

Email Address lizdrs@hotmail.com

Building Official: [Signature] Date 8-12-15

Verified Contractor's Licenses & Insurance are on file [Signature] Date 8-12-15

Zoning Fee \$ 30<sup>00</sup>

Permit Fee \$ 65<sup>00</sup>

Review Fee \$ na

3% Florida Surcharge \$ 4<sup>00</sup>

Total Permit Fee \$ 99<sup>00</sup>

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: 2015-08-029  
Folio/Parcel Identification Number: 30-23-30-0610-01-120  
Prepared by: Sherrie Kovacs



lizdrs@hotmail.com  
Return to: 6107 Anno Ave  
Orlando FL 32809

**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)  
Belle Isle West 8/18 Lot 112 1738 Pam Cir Belle Isle FL 32809
- General description of improvement**  
Reroof Approximately 2640 SF Of Roof Shingles
- Owner information or Lessee information if the Lessee contracted for the improvement**  
Name Parbatie Tommasini  
Address 1738 Pam Cir Belle Isle FL 32809  
Interest in Property Owner  
Name and address of fee simple titleholder (if different from Owner listed above)  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- Contractor**  
Name DRS Of Central Florida Telephone Number 407-240-1225  
Address 6107 Anno Orlando FL 32809
- 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) \_\_\_\_\_



State of Florida, County of Orange  
hereby certify that this is a true and correct copy of the document as recorded in the Official Records  
MARTHA O. HAYNIE, COUNTY COMPTROLLER  
Dep. Comptroller  
Dated: 08-11-15

**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.**

**Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated in it are true to the best of my knowledge and belief.**

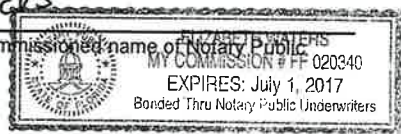
Parbatie Tommasini  
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager \_\_\_\_\_ Signatory's Title/Office \_\_\_\_\_

The foregoing instrument was acknowledged before me this 10 day of Aug 2015 by Parbatie Tommasini  
monthly/year name of person

as \_\_\_\_\_ for \_\_\_\_\_  
Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed

Elizabeth Waters \_\_\_\_\_  
Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public

Personally Known \_\_\_\_\_ OR Produced ID   
Type of ID Produced DIC





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

**POWER OF ATTORNEY**

Date: 8/11/15

Permit #: 201508-029

I hereby name and appoint Sherrie Kovacs of \_\_\_\_\_  
(print name)

DRS of Central Florida, Inc. to be my lawful attorney-in-fact to act for  
(company name)

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

for work to be performed at the following location:

1738 Pam Circle, Belle Isle, FL  32809  32812 and  
(street address)

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

Certified Contractor's Printed Name: Richard Rao

License Number: CCC057239

Certified Contractor's Signature: [Handwritten Signature]

.....  
The foregoing instrument was acknowledged before me this 11 days of Aug. of 20 15.  
by Richard RAO who is personally known to me or who produced  
\_\_\_\_\_ as identification and who did not take an oath.

State of Florida  
County of Orange

[Handwritten Signature]  
Notary Public, Orange County, Florida



(seal)



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## Product Approval Form

DATE: 8/11/15

PERMIT # 2015-08-029

PROJECT ADDRESS 1738 Pam Cir, 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 #
<b>EXTERIOR DOORS</b>				<b>WALL PANELS</b>			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
<b>WINDOWS</b>				<b>ROOFING PRODUCTS</b>			
Single/Dbf Hung				Asphalt Shingles	<u>Certainteed, Landmark</u>	<u>FL5444-R7</u>	
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Other	<u>Underlayment TAMKO</u>	<u>30# U.L. FLR328-R5</u>	
Skylights							
Other							
<b>STRUCTURAL COMPONENTS</b>				<b>OTHER</b>			
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 

Date 8/11/15



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FL #	FL5444-R8								
Application Type	Revision								
Code Version	2014								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
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 Registered Architect or a Licensed Florida Professional Engineer <input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen								
Florida License	PE-59166								
Quality Assurance Entity	UL LLC								
Quality Assurance Contract Expiration Date	07/03/2017								
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	<a href="#">FL5444_R8_COI_2015_01_COI_Nieminen.pdf</a>								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>ASTM D3161, Class F</td> <td>2009</td> </tr> <tr> <td>ASTM D3462</td> <td>2009</td> </tr> <tr> <td>ASTM D7158, Class H</td> <td>2008</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ASTM D3161, Class F	2009	ASTM D3462	2009	ASTM D7158, Class H	2008
<b>Standard</b>	<b>Year</b>								
ASTM D3161, Class F	2009								
ASTM D3462	2009								
ASTM D7158, Class H	2008								
Equivalence of Product Standards									

Certified By

Sections from the Code

Product Approval Method Method 1 Option D

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

Summary of Products		
FL #	Model, Number or Name	Description
5444.1	CertainTeed Asphalt Roofing Shingles	3-tab, 4-tab, strip (no-cut-outs), laminated and architectural asphalt roof shingles
<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 Other: Refer to ER Section 5 for Limits of Use		<b>Installation Instructions</b> <a href="#">FL5444 R8 II 2015 03 FINAL ER CERTAINTEED Asphalt Shingle FL5444-R8.pdf</a> Verified By: Robert Nieminen, PE PE-59166 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5444 R8 AE 2015 03 FINAL ER CERTAINTEED Asphalt Shingle FL5444-R8.pdf</a> Created by Independent Third Party: Yes

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

Product Approval Accepts:





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

**EVALUATION REPORT**

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

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

**SCOPE:**

This Evaluation Report is issued under Rule 61G20-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the 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 9.

**Prepared by:**



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 03/06/2015. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

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

**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 (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 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, Shingle Ridge™, Shadow Ridge™, Cedar Crest™ and Cedar Crest™ IR are fiberglass reinforced accessory shingles for hip and ridge installation.
- 4.7 Any of the above listed shingles may be produced in AR (algae resistant) versions.

## 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in the HVHZ
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 Wind Classification:
  - 5.4.1 All shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F and/or ASTM D7158, Class H, indicating the shingles are acceptable for 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 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).
  - 5.4.3 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 ( $R_r$ ) 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 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**

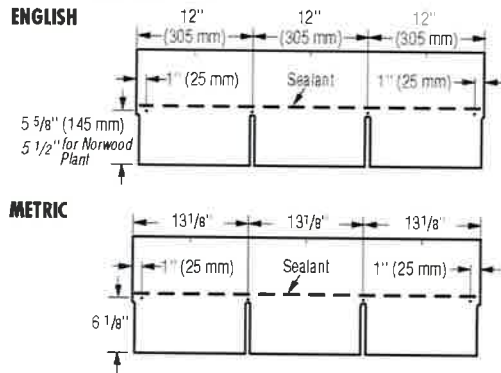


Figure 11-3: Use **four nails** for every full shingle.

**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.

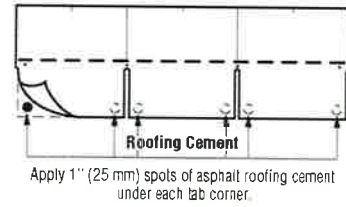


Figure 11-4: Use **four nails** and **six spots** of asphalt cement on steep slopes.

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

6.3.1.1 **Hip & Ridge: Cut Shingles**

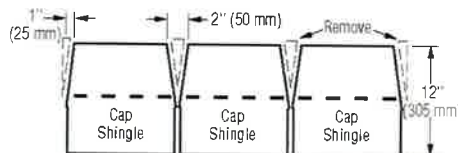


Figure 11-24: **Cut tabs, then trim back to make cap shingles** (English dimensions shown).

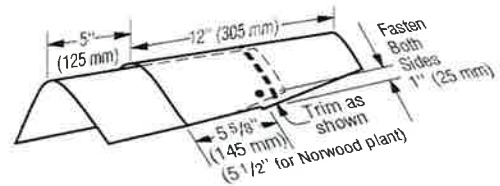


Figure 11-25: **Installation of caps along the hips and ridges.**

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.

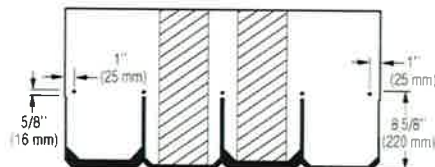


Figure 17-4: Use **five nails** for every full Grand Manor Shingle, Carriage House Shingle, or Centennial Slate.

**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 inch (25 mm) from edge of shingle (Figure 17-5). Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

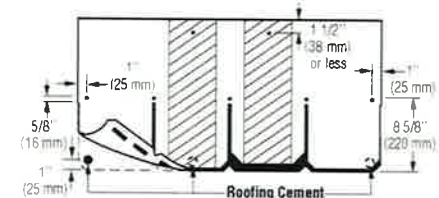


Figure 17-5: When installing Grand Manor Shingles on steep slopes, use **seven nails** and **three spots** of asphalt roofing cement.

6.3.2.1 Hip & Ridge: Shangle® Ridge

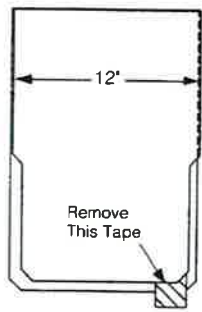


Figure 17-18: Shangle® Ridge.

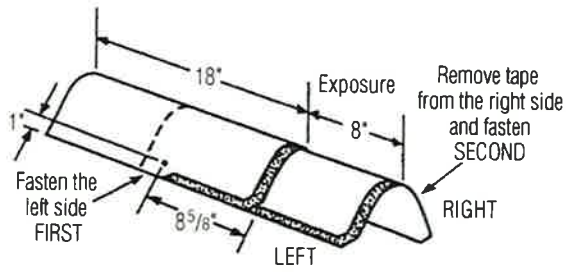


Figure 17-19: Installation of Shangle® Ridge shingles on hips and ridges.

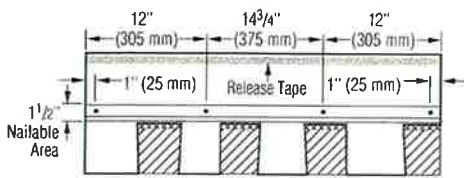
Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

6.3.3

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

**LOW AND STANDARD SLOPE**

**METRIC DIMENSIONS**



**LANDMARK TL**

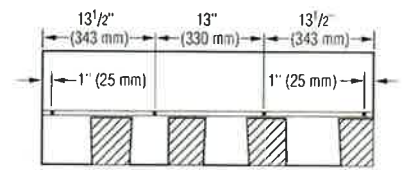
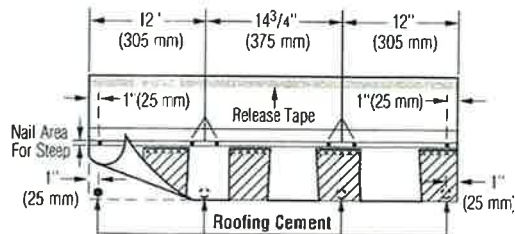


Figure 13-4: Use four nails for every full shingle

**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 D4586 Type II. Apply 1" spots of asphalt roofing cement under each corner and at about 12" to 13" in from each edge.

**METRIC DIMENSIONS**



**LANDMARK TL**

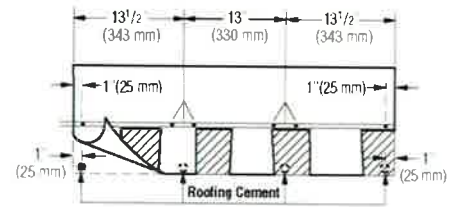


Figure 13-5: Use six nails and four spots of asphalt roofing cement on steep slopes

6.3.3.1 Hip & Ridge, Option 1: Shadow Ridge™

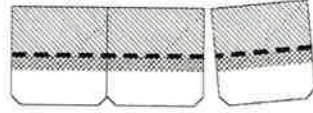


Figure 13-16: Shadow Ridge accessory shingles detach easily from three-piece units to make 72 individual cap pieces.

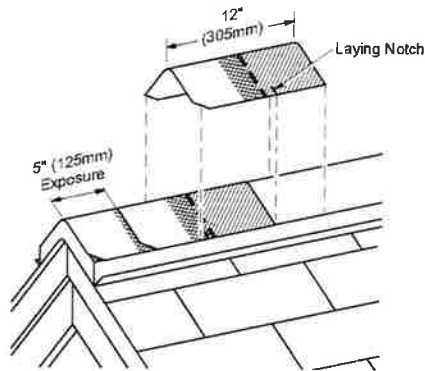
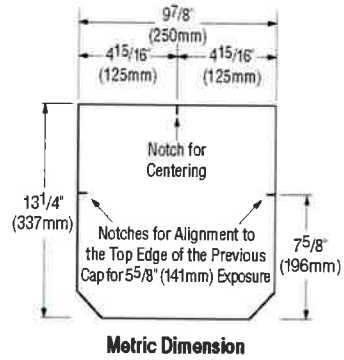
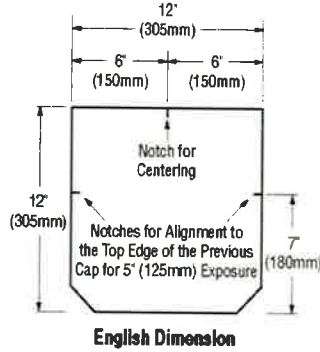
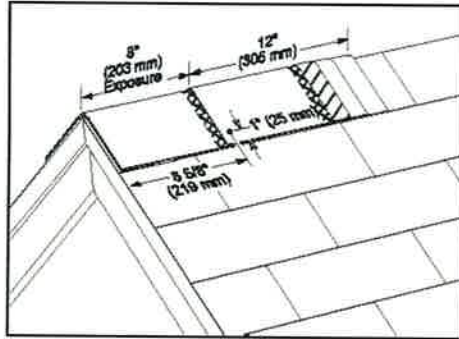


Figure 13-20: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

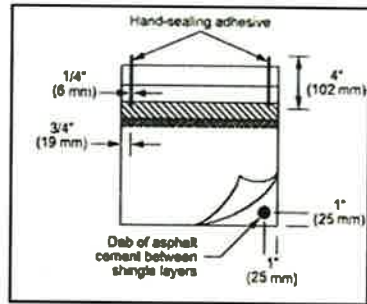
Note: For ASTM D3161 - Class F, use BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant in accordance with manufacturer's instructions.

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

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



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



6.3.4

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

**LOW AND STANDARD SLOPE:**

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

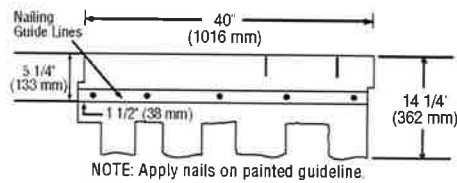


Figure 16-6: Fastening Presidential and Presidential TL Shake shingles on low and standard slopes.

**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.

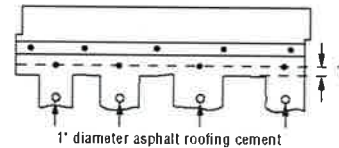


Figure 16-7: Fastening Presidential and Presidential TL Shake shingles on steep slopes.

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 3/4" long or longer, so they penetrate either 3/4" into the deck or completely through the deck. Presidential accessory comes in two different sizes: Accessory produced in Birmingham, AL is 12" x 12"; Portland, OR produces 9 7/8" x 13 1/4" accessory.

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.**

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

**LOW AND STANDARD SLOPE:**

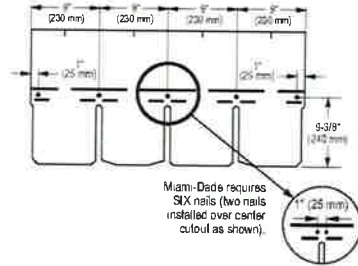


Figure 11-3: Use FIVE nails for every Highland Slate shingle.

**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.

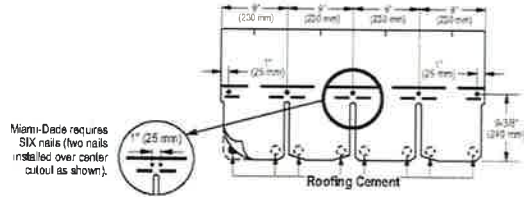


Figure 11-3A: Use FIVE nails and eight spots of asphalt roofing cement under each tab corner.

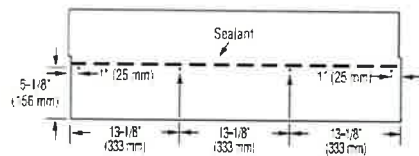
\*CAUTION: Excessive use of roofing cement can cause shingles to blister.

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**

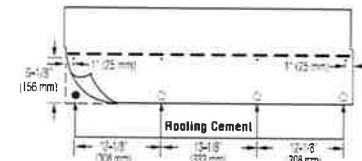
Use FOUR nails for every full shingle located as shown below.



**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™ or Shangle Ridge™ hip and ridge shingles.

**7. LABELING:**

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

**8. BUILDING PERMIT REQUIREMENTS:**

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

**9. MANUFACTURING PLANTS:**

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

**10. QUALITY ASSURANCE ENTITY:**

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

- END OF EVALUATION REPORT -



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**Product Approval**  
USER: Public User

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

OFFICE OF THE SECRETARY

FL #	FL12328-R5										
Application Type	Revision										
Code Version	2014										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	TAMKO Building Products, Inc.										
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (417) 624-6644 Ext 2305 kerri_eden@tamko.com										
Authorized Signature	Kerri Eden kerri_eden@tamko.com										
Technical Representative	Kerri Eden										
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (417) 624-6644 Ext 2305 kerri_eden@tamko.com										
Quality Assurance Representative											
Address/Phone/Email											
Category	Roofing										
Subcategory	Underlayments										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Zachary R. Priest										
Florida License	PE-74021										
Quality Assurance Entity	UL LLC										
Quality Assurance Contract Expiration Date	02/26/2016										
Validated By	Locke Bowden <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	<a href="#">FL12328_R5_COI_TBP14001_2010_FPA_TAMKO_Underlayments_FINAL.pdf</a>										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>ASTM D1970</td> <td>2009</td> </tr> <tr> <td>ASTM D226</td> <td>2006</td> </tr> <tr> <td>ASTM D4869</td> <td>2005</td> </tr> <tr> <td>ASTM D6380</td> <td>2003</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ASTM D1970	2009	ASTM D226	2006	ASTM D4869	2005	ASTM D6380	2003
<b>Standard</b>	<b>Year</b>										
ASTM D1970	2009										
ASTM D226	2006										
ASTM D4869	2005										
ASTM D6380	2003										
Equivalence of Product Standards Certified By											
Sections from the Code											



Product Approval Method Method 1 Option D

Date Submitted 04/13/2015  
 Date Validated 04/15/2015  
 Date Pending FBC Approval 04/22/2015  
 Date Approved 06/22/2015

**Summary of Products**

FL #	Model, Number or Name	Description
12328.1	ASTM Slate Surfaced Roll Roofing	Roll roofing surfaced with mineral granules
<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 Other: See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328 R5 II TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328 R5 AE TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.2	ASTM Tile Underlayment	Coated organic underlayment
<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 Other: See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328 R5 II TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328 R5 AE TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.3	Master Smooth	Asphalt saturated organic underlayment.
<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 Other: See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328 R5 II TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328 R5 AE TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.4	Moisture Guard Plus	A self-adhering modified bitumen underlayment.
<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 Other: See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328 R5 II TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328 R5 AE TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.5	No. 15 ASTM	Asphalt saturated organic felt
<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 Other: See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328 R5 II TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328 R5 AE TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.6	No. 15 UL	Asphalt saturated organic felt
<b>Limits of Use</b> Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A		<b>Installation Instructions</b> <a href="#">FL12328 R5 II TBP14001 1 2014 FPA TAMKO Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes

<b>Design Pressure:</b> N/A <b>Other:</b> See evaluation report for limits of use.		<b>Evaluation Reports</b> <a href="#">FL12328_R5_AE_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.7	No. 30 ASTM	Asphalt saturated organic felt
<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> See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328_R5_II_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328_R5_AE_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.8	No. 30 UL	Asphalt saturated organic felt
<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> See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328_R5_II_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328_R5_AE_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.9	TW Metal and Tile Underlayment	self-adhering modified bitumen underlayment
<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> See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328_R5_II_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328_R5_AE_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Created by Independent Third Party: Yes
12328.10	TW Underlayment	self-adhering modified bitumen underlayment
<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> See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL12328_R5_II_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL12328_R5_AE_TBP14001_1_2014_FPA_TAMKO_Underlayments.pdf</a> Created by Independent Third Party: Yes

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Product Approval Accepts:





**EVALUATION REPORT**

**2014 FLORIDA BUILDING CODE**

**Manufacturer:** TAMKO BUILDING PRODUCTS, INC. *Issued April 13, 2015*  
P.O. Box 1404  
Joplin, MO 64802  
(417) 624-6644  
<http://www.tamko.com>

**Quality Assurance:** UL LLC (QUA9625)

**SCOPE**

**Category:** Roofing  
**Subcategory:** Underlayments  
**Code Sections:** 1507.2.3, 1507.2.4, 1507.2.8, 1507.2.9.2, 1507.3.3, 1507.4.5.1, 1507.4.5.2, 1507.4.5.3, 1507.5.3, 1507.5.3.2, 1507.6.3, 1507.6.3.2, 1507.6.5, 1507.7.3, 1507.7.3.2, 1507.8.3, 1507.8.3.2, 1507.8.8, T1507.8, 1507.9.3, 1507.9.3.2, 1507.9.5, 1507.9.9  
**Properties:** Physical properties

**REFERENCES**

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST6049)	TAP-191-02-01REV	ASTM D 1970	2009
PRI Construction Materials Technologies (TST6049)	TAP-192-02-01	ASTM D 1970	2009
PRI Construction Materials Technologies (TST6049)	TAP-193-02-01	ASTM D 1970	2009
PRI Construction Materials Technologies (TST6049)	TAP-214-02-01	ASTM D 4869	2005e01
PRI Construction Materials Technologies (TST6049)	TAP-215-02-01	ASTM D 226	2006
PRI Construction Materials Technologies (TST6049)	TAP-216-02-03	ASTM D 6380	2003(2009)
PRI Construction Materials Technologies (TST6049)	TAP-217-02-01REV	ASTM D 6380	2003(2009)
PRI Construction Materials Technologies (TST6049)	TAP-218-02-01	ASTM D 226	2006
PRI Construction Materials Technologies (TST6049)	TAP-219-02-01	ASTM D 226	2006
PRI Construction Materials Technologies (TST6049)	TAP-220-02-01	ASTM D 6380	2003(2009)
PRI Construction Materials Technologies (TST6049)	TAP-222-02-01	ASTM D 4869	2005e01
UL LLC (TST9628)	13CA12269	ASTM D 226	2006

**PRODUCT DESCRIPTION AND APPLICATION**

**TAMKO® ASTM Slate Surfaced Roll Roofing** ASTM D 6380, Class M, Type II underlayment constructed from organic felt saturated with asphalt and coated on both sides with asphalt and surfaced with granules.

**Min. slope:** 2:12

**Application:** The underlayment shall be installed with minimum 2" side laps and minimum 4" staggered end laps and in accordance with FRSA/TRI 07230 for tile applications.

**Allowable roof coverings:** Attachment of asphalt shingle valleys and clay and concrete tile shall be permitted in accordance with the FBC.

<b>TAMKO® ASTM Tile Underlayment</b>	<p>ASTM D 6380, Class M, Type II underlayment constructed from an organic felt saturated with asphalt then coated on both sides with asphalt and surfaced with granules.</p> <p>Application: The underlayment shall be installed with minimum 2" side laps and minimum 4" staggered end laps and in accordance with FRSA/TRI 07230 for tile applications.</p> <p>Allowable roof coverings: Attachment of clay and concrete tile shall be permitted in accordance with the FBC.</p>
<b>TAMKO® Master Smooth</b>	<p>ASTM D 6380, Class S, Type IV underlayment constructed from an organic felt saturated with asphalt then coated on both sides with asphalt and surfaced with a fine mineral.</p> <p>Application: The underlayment shall be installed along the valley in accordance with FBC requirements.</p> <p>Allowable roof coverings: Attachment of asphalt shingle valleys shall be permitted in accordance with the FBC.</p>
<b>TAMKO® Moisture Guard Plus®</b>	<p>Self-adhered, ASTM D 1970, fiberglass reinforced, modified bitumen sheet membrane with a mineral surfacing and a removable release film on the adhesive side.</p> <p>Application: The underlayment shall be attached by adhering directly to the roof deck with minimum 3-1/2" side laps and minimum 6" staggered end laps.</p> <p>Min. application temperature: 40°F.</p> <p>Allowable roof coverings: Attachment of asphalt shingles and mechanically fastened concrete and clay tile roofing shall be permitted in accordance with the FBC.</p>
<b>TAMKO® No. 15 ASTM Asphalt Saturated Organic Felt</b>	<p>ASTM D 226, Type I underlayment constructed from a non-perforated organic felt that is saturated with asphalt.</p> <p>Application: The underlayment shall be installed with minimum 2" side laps and minimum 4" end laps.</p> <p>Allowable roof coverings: Attachment of asphalt shingles, metal roofing, wood shingles, wood shakes, and roll roofing shall be permitted in accordance with the FBC.</p>
<b>TAMKO® No. 15 UL Asphalt Saturated Organic Felt</b>	<p>ASTM D 226, Type I underlayment constructed from a non-perforated organic felt that is saturated with asphalt.</p> <p>Application: The underlayment shall be installed with minimum 2" side laps and minimum 4" end laps.</p> <p>Allowable roof coverings: Attachment of asphalt shingles, metal roofing, wood shingles, wood shakes, and roll roofing shall be permitted in accordance with the FBC.</p>

<b>TAMKO® No. 30 ASTM Asphalt Saturated Organic Felt</b>	<p>ASTM D 226, Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.</p> <p>Application: The underlayment shall be installed with minimum 2" side laps and minimum 4" end laps.</p> <p>Allowable roof coverings: Attachment of asphalt shingles, metal roofing, clay and concrete tile, slate shingles, wood shingles, wood shakes, and roll roofing shall be permitted in accordance with the FBC.</p>
<b>TAMKO® No. 30 UL Asphalt Saturated Organic Felt</b>	<p>ASTM D 226, Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.</p> <p>Application: The underlayment shall be installed with minimum 2" side laps and minimum 4" end laps.</p> <p>Allowable roof coverings: Attachment of asphalt shingles, metal roofing, clay and concrete tile, slate shingles, wood shingles, wood shakes, and roll roofing shall be permitted in accordance with the FBC.</p>
<b>TAMKO® TW Metal and Tile Underlayment</b>	<p>Self-adhered, flexible, ASTM D 1970, rubberized asphalt sheet membrane with a polymer film on the surface and a removable release film on the adhesive side.</p> <p>Application: The underlayment shall be attached by adhering directly to the roof deck with minimum 4" side laps and minimum 6" staggered end laps.</p> <p>Min. application temperature: 40°F</p> <p>Allowable roof coverings: Attachment of asphalt shingles, metal roofing, and mechanically fastened clay and concrete tiles shall be permitted in accordance with the FBC.</p>
<b>TAMKO® TW Underlayment</b>	<p>Self-adhered, flexible, ASTM D 1970, rubberized asphalt sheet membrane with a polymer film on the surface and a removable release film on the adhesive side.</p> <p>Application: The underlayment shall be attached by adhering directly to the roof deck with minimum 4" side laps and minimum 6" staggered end laps.</p> <p>Min. application temperature: 40°F</p> <p>Allowable roof coverings: Attachment of asphalt shingles and metal roofing shall be permitted in accordance with the FBC.</p>

### LIMITATIONS

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- 1) This evaluation report is not for use in the HVHZ.
- 2) Fire Classification is not within the scope of this evaluation.
- 3) Wind uplift resistance is not within scope of this evaluation.
- 4) Installation of the evaluated product shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 5) Minimum application temperature shall be 50°F unless otherwise noted. Contact the manufacturer when installing at temperatures below the minimum application temperature.
- 6) Deck substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the deck shall be checked for protrusion and corrected prior to underlayment application.
- 7) The roof deck shall be constructed of closely fitted sheathing for new or existing construction. Roof deck shall be installed in accordance with FBC requirements.
- 8) Unless otherwise stated, the minimum roof slope shall be in accordance with FBC requirements.
- 9) All underlayments shall be installed with the roll length parallel to the eave, starting at the eave, and lapped in successive courses installed up the deck in a manner that effectively sheds water from the deck. End laps shall be staggered between courses in accordance with the manufacturer's application instructions.
- 10) The underlayment may be used as described in other current FBC product approval documents.
- 11) The underlayment shall not be installed over existing roof coverings.
- 12) Contact the manufacturer regarding specific exposure limits for each underlayment.
- 13) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

### COMPLIANCE STATEMENT

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The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the 2014 Florida Building Code as evidenced in the referenced documents submitted by the named manufacturer.



  
Digitally signed by Zachary R. Priest

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-04'00'

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

### CERTIFICATION OF INDEPENDENCE

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

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

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

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

**END OF REPORT**



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

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


(850) 487-1395

RAO, RICHARD  
D R S OF CENTRAL FLORIDA INC  
6107 ANNO AVE  
ORLANDO FL 32809

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STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND  
PROFESSIONAL REGULATION

CCC057239 ISSUED: 06/19/2014

CERTIFIED ROOFING CONTRACTOR  
RAO, RICHARD  
D R S OF CENTRAL FLORIDA INC

IS CERTIFIED under the provisions of Ch.489 FS.  
Expiration date : AUG 31, 2016 L1406190000811

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

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

LICENSE NUMBER
CCC057239

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



RAO, RICHARD  
D R S OF CENTRAL FLORIDA INC  
6107 ANNO AVE  
ORLANDO FL 32809



ISSUED: 06/19/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1406190000811

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.**

1806 ROOFING	<b>2014</b>	<b>EXPIRES 9/30/2015</b>	1806-0962522
\$30.00 1	EMPLOYEE	5000 BUSINESS OFFICE	\$30.00 10 EMPLOYEE

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

RAO RICHARD QUALIFIER

DRS OF CENTRAL FLORIDA INC  
RAO RICHARD QUALIFIER  
6107 ANNO AVE  
ORLANDO FL 32809-5083

6107 ANNO AV  
U - ORLANDO, 32809

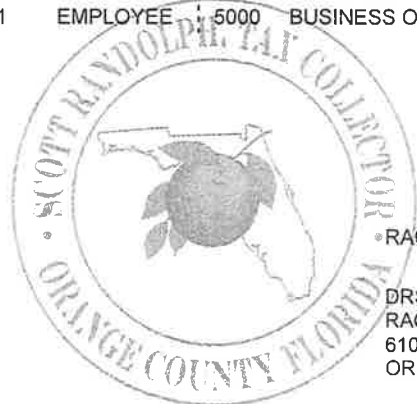
PAID: \$60.00 0099-00623957 7/10/2014

**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.**

1806 ROOFING	<b>2014</b>	<b>EXPIRES 9/30/2015</b>	1806-0962522
\$30.00 1	EMPLOYEE	5000 BUSINESS OFFICE	\$30.00 10 EMPLOYEE

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



RAO RICHARD QUALIFIER

DRS OF CENTRAL FLORIDA INC  
RAO RICHARD QUALIFIER  
6107 ANNO AVE  
ORLANDO FL 32809-5083

6107 ANNO AV  
U - ORLANDO, 32809

PAID: \$60.00 0099-00623957 7/10/2014

This receipt is official when validated by the Tax Collector.



