



City of Belle Isle Job Site Card ROOFING PERMIT 2018-04-024

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

Permit Number: 2018-04-024

Issue Date: 04/10/2018

Site Address: 4112 Bell Tower Ct

Parcel # 20-23-30-1618-00-350

Class: Residential Subdivision:

Description of Work: Roof 4600 SQFT. Asphalt Shingles two story residence

Issued To: Jasper Contractors Inc.

Business Phone: 407 278-7788

Name: Bouchard, Donald

Contractor License: CCC1331153

Payment Date & Method: 4 / 10 / 2018

Visa Master Card Amex Discover Check / Money Order # 1999

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

Schedule Inspections via Email at: BDscheduling@universalengineering.com

SCHEDULE INSPECTIONS BY 4PM CUT OFF TIME

Inspection Results Will Be Sent Out the Following Business Day

ROOF	INSPECTOR	DATE	COMMENTS
700 In-progress			
710 Final			

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

RECEIVED
 APR -9 2018
 BY: _____

0020911



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

APPLICATION FOR ROOFING PERMIT

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

DATE OF APPLICATION: 4/6/18 ROOF PERMIT NUMBER 2018-04-024
 PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 4112 Bell Tower Ct Orlando, Fl, Belle Isle, FL 32809 X 32812
 Property Owner Clark Kingsley A Clark Danielle R Phone _____
 Property Owner's Mailing Address 4112 Bell Tower Ct City Orlando
 State FL Zip Code 32812 Parcel Id Number: 20-23-30-1618-00-350
 REQUIRED! To obtain this information, please visit <https://www.ocpal.org/Searches/ParcelSearch.aspx>

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

• REQUIRED! Florida Product Approval Form – NOTE: installation instructions must be posted on-site before your first inspection!

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

Roof Square Footage: 4600 Number of Stories: 2 Job Valuation: \$ 25,800
 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 # CCC1331153
 LICENSE HOLDER NAME Donald Bouchard COMPANY NAME Jasper Contractors
 Street Address 515 18th St
 City Orlando State FL Zip Code 32805 Phone Number 407-278-7788
 Email Address permit@jasperinc.com

Zoning Fee \$ 30.00
 Building Fee \$ 150.00
 Review Fee \$ _____
 1% BCAIB Fee \$ 2.00 min
 1.5% DCA Fee \$ 2.25
 Total Permit Fee \$ 184.25 225

Building Official: SM Date 4-10-18
 Verified Contractor's Licenses & Insurance are on file [Signature] Date 4-9-2018
OK PERCENTAGES PENDING Revised

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.

1ST IK 25
25x5 125
150

PAID
 4-10-2018
 VISA 1999

THIS INSTRUMENT PREPARED BY: JASPER CONTRACTORS
Name: JASPER CONTRACTORS
Address: 3203 S CONWAY ROAD SUITE 201
ORLANDO, FL 32812

2018-04-024

0020977

DOC # 20180204735
04/06/2018 09:29 AM Page 1 of 1
Rec Fee: \$10.00
Deed Doc Tax: \$0.00
Mortgage Doc Tax: \$0.00
Intangible Tax: \$0.00
Phil Diamond, Comptroller
Orange County, FL
Rel To: SIMPLIFILE LC

NOTICE OF COMMENCEMENT

Permit Number: _____
Parcel ID Number: 20-23-30-16-18-00-350

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 Groves Unit 1 26/3 lot 25
- GENERAL DESCRIPTION OF IMPROVEMENT:
RE-ROOF
- OWNER INFORMATION OR LESSEE INFORMATION IF THE LESSEE CONTRACTED FOR THE IMPROVEMENT:
Name and address: Clark Danielle R 4112 Bell tower Ct Orlando, FL 32812
Interest in property: OWNER
Fee Simple Title Holder (if other than owner listed above) Name: _____
Address: _____
- CONTRACTOR: Name: JASPER CONTRACTORS Phone Number: 407-278-7788
Address: 3203 S CONWAY ROAD SUITE 201 ORLANDO FL 32812
- SURETY (if applicable, a copy of the payment bond is attached): Name: _____
Address: _____ Amount of Bond: _____
- LENDER: Name: _____ Phone Number: _____
Address: _____
- Persons within the State of Florida Designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes.
Name: _____ Phone Number: _____
Address: _____
- In addition, Owner designates _____ of _____
to receive a copy of the Lessor's Notice as provided in Section 713.13(1)(b), Florida Statutes. Phone number: _____
- Expiration Date of Notice of Commencement (The expiration is 1 year from date of recording unless a different date is specified) _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

+ [Signature] (Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager)
+ [Signature] (Print Name and Provide Signatory's Title/Office)

State of Florida County of Orange

The foregoing instrument was acknowledged before me this 20 day of March, 2018

by Danielle Clark Name of person making statement Who is personally known to me OR

who has produced identification type of identification produced: DL

SKYLAR B AMKRAUT
Commission # FF 127890
My Commission Expires
June 01, 2018

[Signature]
Notary Signature

SKYLAR B AMKRAUT
Commission # FF 127890
My Commission Expires
June 01, 2018

State of FLORIDA, County of ORANGE.
Per §668.50, F.S., which defines and permits electronic signatures,
I certify that this is a true copy of the document as reflected in the
Official Records.
PHIL DIAMOND, COUNTY COMPTROLLER



By Beatriz Galagarza at 2:01 pm, Apr 06, 2018
Deputy Comptroller Date





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

POWER OF ATTORNEY

Date: 4/6/18

Permit #: 2018-04-024

I hereby name and appoint KARLA ALMODOVAR, MICHELLE MONSALVE, ANA CHAVEZ of
(print name)

DONALD BOUCHARD 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 RE-ROOF permit
(type of permit)
 for work to be performed at the following location:

4112 BELL TOWER CT BELLE ISLE, FL, 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: DONALD BOUCHARD

License Number: CCC1331153

Certified Contractor's Signature: *[Handwritten Signature]*

The foregoing instrument was acknowledged before me this 6 days of APRIL of 2018

by DONALD BOUCHARD who is personally known to me or who produced

DL as identification and who did not take an oath.

State of Florida
 County of Orange

[Handwritten Signature]
 Notary Public, Orange County, Florida

(seal)





City of Belle Isle

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

Product Approval Form

DATE: 4/6/18

PERMIT # _____

PROJECT ADDRESS 4112 BELL TOWER CT BELLE ISLE, FL, Belle Isle, FL 32809 32812

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

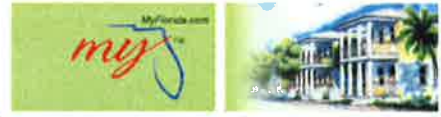
• **NOTE: The installation instructions must be posted on-site before your first inspection!!**

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/DbI Hung				Asphalt Shingles	OWENS CORNING	R13	10674
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Underlayment	RHINO	R3	15216
Skylights				Other			
Other							
STRUCTURAL COMPONENTS				OTHER			
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

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

Applicant Signature Kalla Hines

Date 4/6/18



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Product Approval
USER: Public User

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



FL #	FL15216-R3
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	InterWrap, Inc.
Address/Phone/Email	32923 Mission Way Mission, NON-US 00000 (551) 574-2939 mtupas@interwrap.com
Authorized Signature	Eduardo Lozano elozano@interwrap.com
Technical Representative	Eduardo Lozano
Address/Phone/Email	32923 Mission Way Mission, NON-US 00000 (778) 945-2891 elozano@interwrap.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 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	Intertek Testing Services NA, Inc. - QA Entity
Quality Assurance Contract Expiration Date	09/30/2019
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	FL15216 R3 COI 2017 01 COI Nieminen.pdf
Referenced Standard and Year (of Standard)	Standard ASTM D1970 (tear)
	Year 2015



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

Interwrap, Inc.
32923 Mission Way
Mission, BC V2V-6E4 Canada
(551) 574-2939

Evaluation Report I40510.02.12-R3

FL15216-R3

Date of Issuance: 02/17/2012

Revision 3: 10/10/2017

SCOPE:

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

DESCRIPTION: RhinoRoof Underlayments

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. 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.

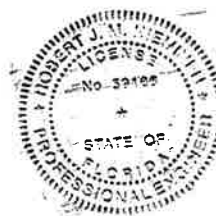
ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 3.

Prepared by:

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



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 10/10/2017. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

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

ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment

Compliance Statement: RhinoRoof Underlayments, as produced by Interwrap, Inc., has demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Properties</u>	<u>Standard</u>	<u>Year</u>
1507.1.1, T1507.1.1	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
1507.1.1	Tear Strength	ASTM D1970	2015

3. REFERENCES:

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

4. PRODUCT DESCRIPTION:

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

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 FBC HVHZ jurisdictions.

5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory or test report from accredited testing agency for fire ratings of this product.

5.4 **RhinoRoof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.

5.5 Allowable Roof Covers:

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

5.6 Exposure Limitations:

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

6. INSTALLATION:

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

6.3 RhinoRoof U20:

- 6.3.1 Shall be installed in compliance with the requirements for **ASTM D226, Type I or II** underlayment in **FBC Table 1507.1.1** for the type of prepared roof covering to be installed, taking into account the wider sheet-width for double-layer applications.
- 6.3.1 Fasteners:
For exposure \leq 24 hours, corrosion resistant fasteners may be 1-inch roofing nails with a 3/8-inch diameter head, or those noted in 6.4.2. The use of staples is prohibited.
For exposure $>$ 24 hours up to maximum 30 days, corrosion resistant fasteners shall be minimum 1-inch diameter plastic or metal cap nails or FBC HVHZ nails & 1-5/8" diameter tin caps (with the rough edge facing up). The use of staples is prohibited.
- 6.3.2 Single Layer; Roof Slope $>$ 4:12:
End (vertical) laps shall be minimum 6-inches and side (horizontal) laps shall be minimum 4-inches. Refer to Interwrap, Inc. recommendations for alternate lap configurations and/or the use of sealant under certain conditions.
For exposure \leq 24 hours, use of every-other fastening location printed on the surface is acceptable. For exposure $>$ 24 hours up to maximum 30-days, use of every fastening location printed on the surface is required.
When batten systems are to be installed atop the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens on the same day. Battens shall not be positioned over cap nails. If this occurs, remove the cap nail and patch the hole in accordance with Interwrap published instructions.
- 6.4.3 Double Layer; 2:12 $<$ Roof Slope $<$ 4:12:
End (vertical) laps shall be minimum 12-inches and side (horizontal) laps shall be minimum half-sheet-width plus 1-inch.
Double layer application; begin by fastening a half-width plus 1-inch starter strip along the eaves. Place a full-width sheet over the starter, completely overlapping the starter course. Continue as noted in 6.5, but maintaining minimum half-width plus 1-inch side (horizontal) laps, resulting in a double-layer application.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Qingdao, China

9. QUALITY ASSURANCE ENTITY:

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

- END OF EVALUATION REPORT -



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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL10674-R13
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Owens Corning
Address/Phone/Email	One Owens Corning Parkway Toledo, OH 43659 (740) 404-7829 greg.keeler@owenscorning.com
Authorized Signature	Greg Keeler greg.keeler@owenscorning.com
Technical Representative	Mel Sancrant
Address/Phone/Email	1 Owens Corning PKWY Toledo, OH 43659 (419) 376-8360 mel.sancrant@owenscornig.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 type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Robert J.M. Nieminen
Florida License	PE-59166
Quality Assurance Entity	UL LLC
Quality Assurance Contract Expiration Date	05/16/2020
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	FL10674 R13 COI 2017 01 COI Nieminen.pdf
Referenced Standard and Year (of Standard)	Standard ASTM D3161
	Year 2016

ASTM D3462
ASTM D7158

2010
2011

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 10/10/2017
Date Validated 10/11/2017
Date Pending FBC Approval 10/15/2017
Date Approved 12/12/2017

Summary of Products

FL #	Model, Number or Name	Description
10674.1	Owens Corning Asphalt Roofing Shingles and Starters	3-tab, 4-tab, 5-tab, laminated, starter and hip & ridge shingles
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Refer to ER, Section 5.		Installation Instructions FL10674 R13 II 2017 10 FINAL ER OC ASPHALT SHINGLES FL10674-R13.pdf Verified By: Robert J. M. Nieminen PE - 59166 Created by Independent Third Party: Yes Evaluation Reports FL10674 R13 AE 2017 10 FINAL ER OC ASPHALT SHINGLES FL10674-R13.pdf Created by Independent Third Party: Yes

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Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:



Credit Card
Safe





EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503

353 CHRISTIAN STREET, UNIT #13

OXFORD, CT 06478

(203) 262-9245

EVALUATION REPORT

Owens Corning

One Owens Corning Parkway

Toledo, OH 43659

(740) 404-7829

Evaluation Report O37940.02.12-R8

FL10674-R13

Date of Issuance: 02/06/2012

Revision 8: 10/09/2017

SCOPE:

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

DESCRIPTION: Owens Corning Asphalt Roof Shingles

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

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

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

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

This Evaluation Report consists of pages 1 through 8.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 10/09/2017. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

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

ROOFING SYSTEMS EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles

Compliance Statement: Owens Corning Asphalt Roof Shingles, as produced by Owens Corning, have demonstrated compliance with the following sections of the 6th Edition (2017) 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	2010
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161	2016
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158	2011

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
UL LLC (CER9626)	Physicals & Wind Resistance	File R2453, Vol. 3	02/15/2007
UL LLC (CER9626)	Physicals & Wind Resistance	20120516-R2453	05/16/2012
UL LLC (TST9628)	Physical Properties	06CA20263	04/18/2006
UL LLC (TST9628)	Wind Resistance	11CA34308	02/18/2012
UL LLC (TST9628)	Physicals & Wind Resistance	4786093137	02/01/2014
UL LLC (TST9628)	Wind Resistance	4786126532	02/10/2014
UL LLC (TST9628)	Physical Properties	Classification letter	02/13/2014
UL LLC (TST9628)	Physical Properties	Classification letter	10/02/2015
Miami-Dade (CER1592)	FBC HVHZ Compliance	Various NOAs	Various
UL LLC (QUA9625)	Quality Control	Service Confirmation	Exp. 05/16/2020

4. PRODUCT DESCRIPTION:
4.1 Asphalt Shingles:

- 4.1.1 Classic[®] and Supreme[®] are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.1.2 Berkshire[®] are fiberglass reinforced, 4-tab asphalt roof shingles.
- 4.1.3 Devonshire[™] are fiberglass reinforced, 5-tab asphalt roof shingles.
- 4.1.4 Duration[®], TruDefinition[®] Duration[®], Duration[®] Premium Cool, TruDefinition[®] Duration[®] Designer Color Collection, TruDefinition[®] Oakridge[®], Oakridge[®] and WeatherGuard[®] HP are fiberglass reinforced, laminated asphalt roof shingles.

4.2 Hip & Ridge Shingles:

- 4.2.1 Berkshire[®] Hip & Ridge Shingles, High Ridge, WeatherGuard[®] HP Hip & Ridge Shingles, ProEdge Hip & Ridge Shingles and DuraRidge[™] Hip & Ridge Shingles are fiberglass reinforced, hip and ridge asphalt roof shingles.

4.3 Accessory Starter Strips:

- 4.3.1 Starter Strip Shingle, Starter Strip Plus and Starter Shingle Roll are starter strips for asphalt roof shingles.

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 FBC HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

5.4 Wind Classification:

- 5.4.1 All **Owens Corning asphalt 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 All **Owens Corning hip & ridge shingles, Starter Strip Shingle and Starter Strip Plus** noted herein are Classified in accordance with **FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F**, 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.
- 5.4.3 Classification by **ASTM D7158** applies to **exposure category B or C**, as defined in **FBC 1609.4.3**, and a **mean roof height of 60 feet or less**. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.
- 5.4.4 Refer to **Owens Corning** published information on wind resistance and installation limitations.
- 5.5 All products in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**.

6. INSTALLATION:

6.1 Underlayment:

- 6.1.1 Underlayment shall be acceptable to **Owens Corning** and shall hold current Florida Statewide Product Approval, or be Locally Approved per **Rule 61G20-3**, per **FBC 1507.2.3, 1507.2.4 or R905.2.3**.

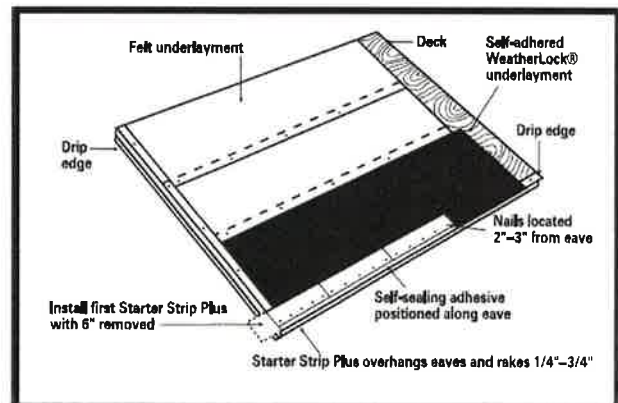
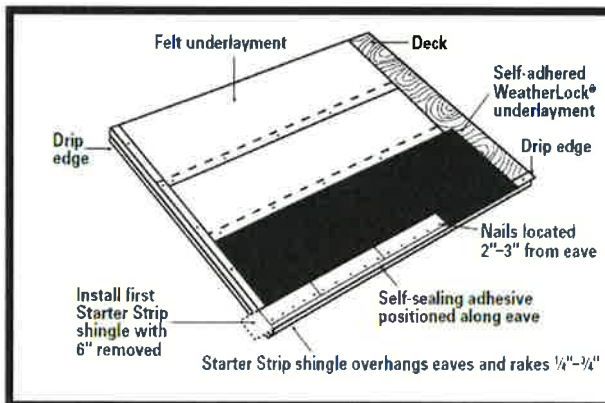
6.2 Asphalt Shingles:

- 6.2.1 Installation of asphalt shingles shall comply with the **Owens Corning** current published instructions, using minimum four (4) nails per shingle in accordance with **FBC 1507.2.7 or R905.2.6**, with the following exceptions:

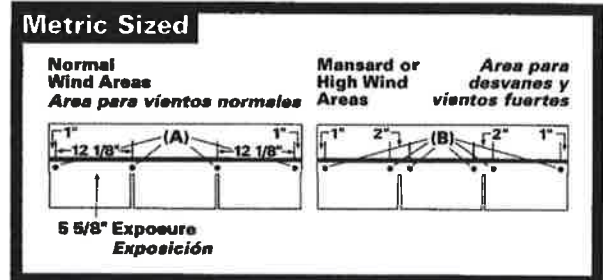
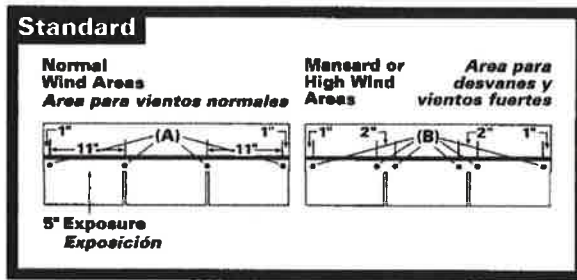
- **Berkshire** shingles require minimum five (5) nails per shingle.
- **WeatherGuard HP** shingles require minimum six (6) nails per shingle.
- **Devonshire™** shingles require minimum six (6) nails per shingle.
- **Starter Strip Shingle and Starter Strip Plus** require minimum five (5) nails per strip.

Refer to **Owens Corning** published information on wind resistance and installation limitations.

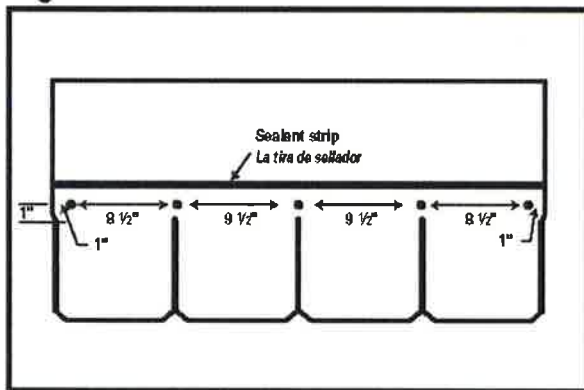
- 6.2.2 Fasteners shall be in accordance with the manufacturer's published requirements, but not less than **FBC 1507.2.6 or R905.2.5**. Staples are not permitted.
- 6.2.4 Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. See figures below for details.
- 6.2.5 Minimum Nailing – **Starter Strip Shingle and Starter Strip Plus:**



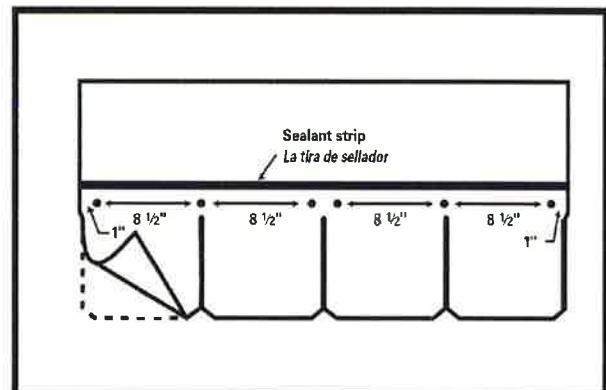
6.2.6 Minimum Nailing – Classic® & Supreme:



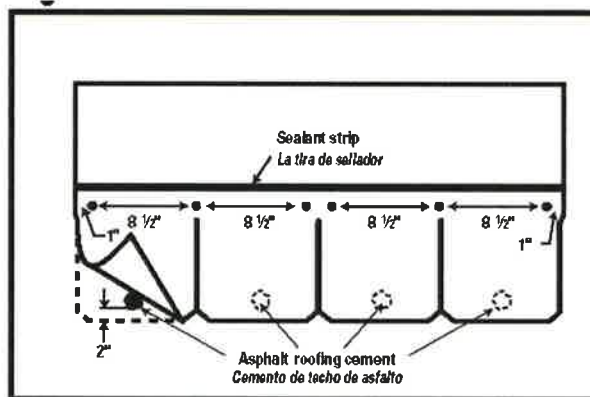
6.2.7 Minimum Nailing – Berkshire®:



Standard Fastening Pattern

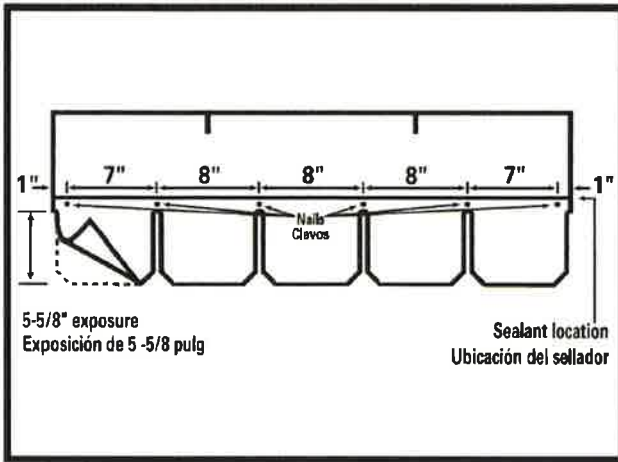


6-Nail Fastening Pattern

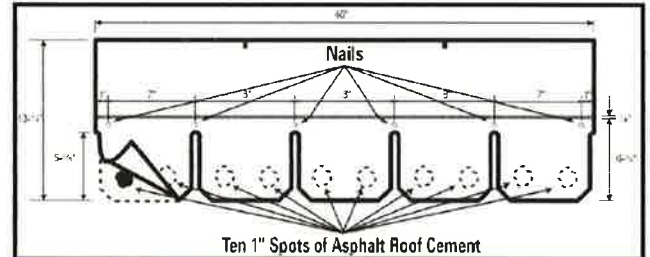


Mansard or Steep Slope Fastening Pattern

6.2.8 Minimum Nailing – **Devonshire™**:

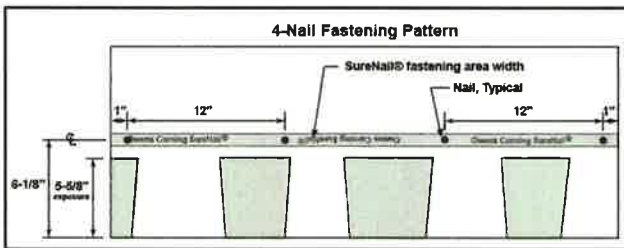


Standard 6-Nail Fastening Pattern

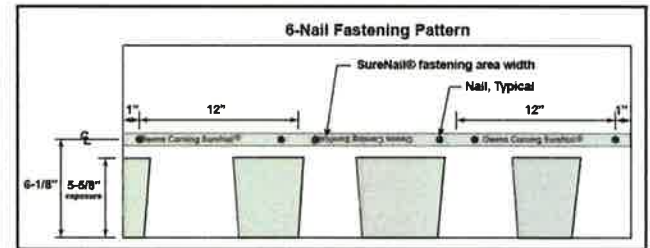


Mansard or Steep Slope Fastening Pattern

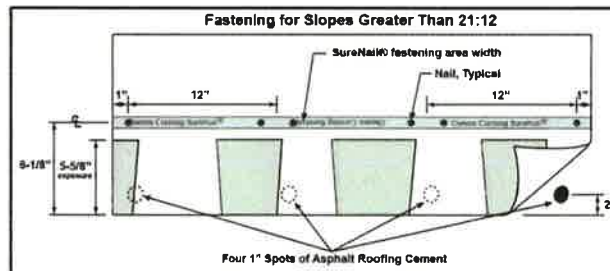
6.2.9 Minimum Nailing – **Duration®, TruDefinition® Duration, Duration® Premium Cool & TruDefinition® Duration® Designer Color Collection**:



Standard Fastening Pattern

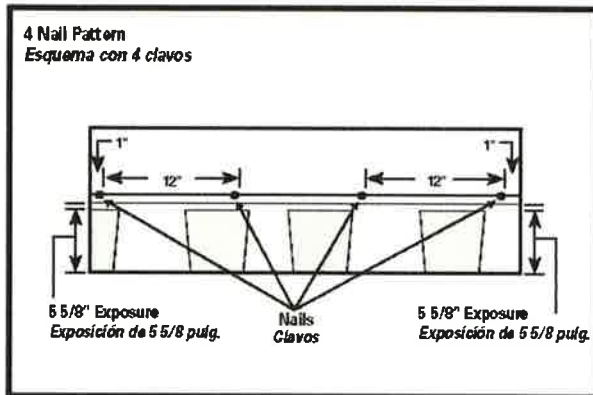


6-Nail Fastening Pattern

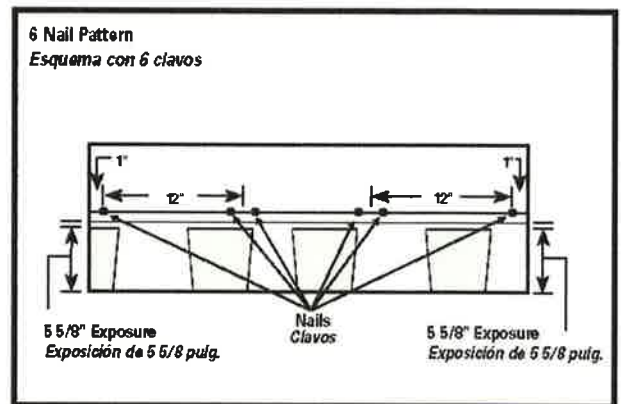


Mansard or Steep Slope Fastening Pattern

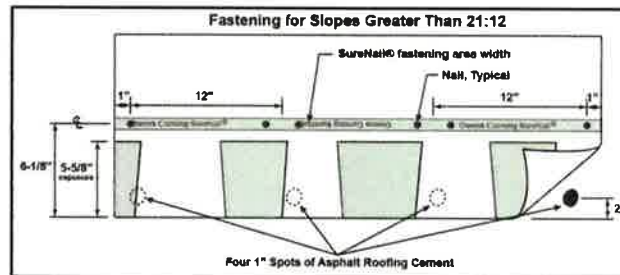
6.2.1 Minimum Nailing – TruDefinition® Oakridge®, Oakridge®:



Standard Fastening Pattern

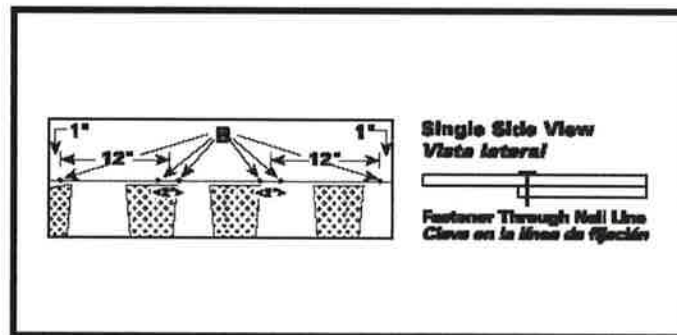


6-Nail Fastening Pattern



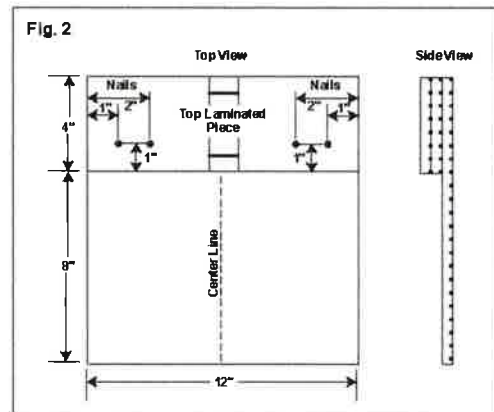
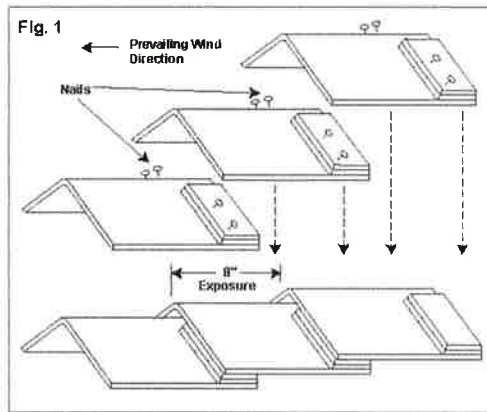
Mansard or Steep Slope Fastening Pattern

6.2.1 Minimum Nailing – WeatherGuard® HP:

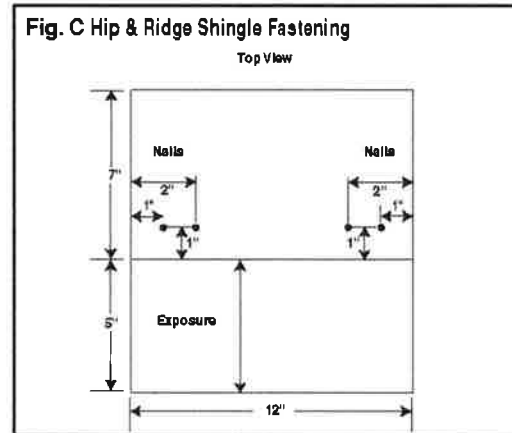
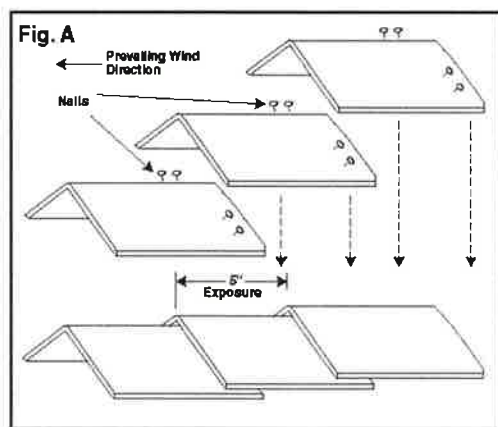


6.3 Hip & Ridge Shingles:

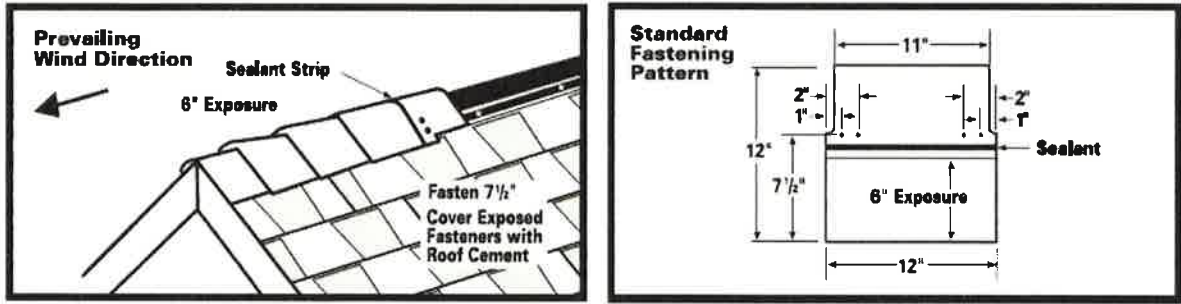
- 6.3.1 Installation of **Berkshire® Hip and Ridge Shingles, High Ridge, WeatherGuard® HP Hip and Ridge Shingles** and **ProEdge Hip & Ridge Shingles** shall comply with the **Owens Corning** current published instructions, using four (4) nails per shingle. Installation of **DuraRidge™ Hip & Ridge Shingles** shall comply with the **Owens Corning** current published instructions, using two (2) nails per shingle. Refer to **Owens Corning** published information on wind resistance and installation limitations, including the use of hand-sealing for wind warranties.
- 6.3.2 Fasteners shall be in accordance with the manufacturer's published requirements, but not less than **FBC 1507.2.6 or R905.2.5**. Staples are not permitted.
- 6.3.3 Minimum Nailing – **Berkshire® Hip & Ridge and High Ridge:**



6.3.4 Minimum Nailing – WeatherGuard® HP Hip and Ridge:

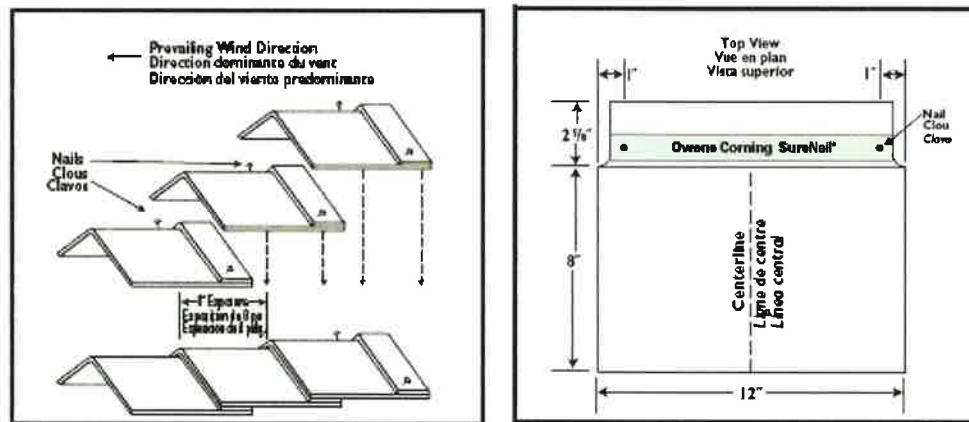


6.3.5 Minimum Nailing - ProEdge Hip & Ridge Shingles:



6.3.6 Minimum Nailing – DuraRidge™ Hip & Ridge Shingles:

Note: The drawings below pertain to minimum, as-tested attachment requirements. Refer to Owens Corning published installation instructions for their minimum requirements.



7. LABELING:

- 7.1 Labeling shall be in accordance with the requirements 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 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

UL LLC– QUA9625 ; (631) 546-2458; Kanchi.Agrawala-Dokania@ul.com

- END OF EVALUATION REPORT -



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

**CONSTRUCTION INDUSTRY LICENSING BOARD
2601 BLAIR STONE ROAD
TALLAHASSEE FL 32399-0783**

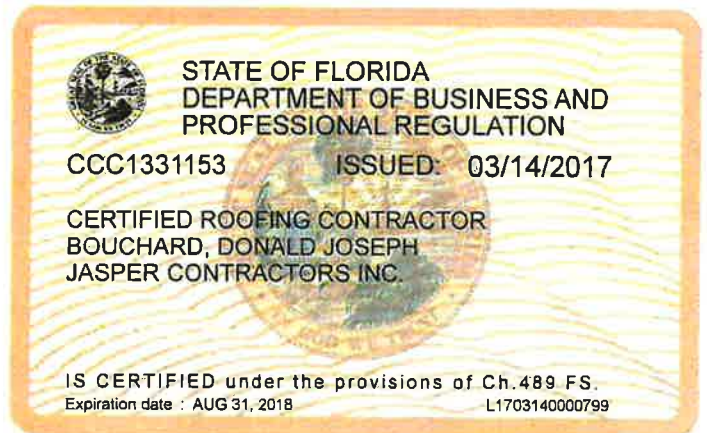
(850) 487-1395

**BOUCHARD, DONALD JOSEPH
JASPER CONTRACTORS INC.
1690 ROBERTS BOULEVARD SUITE 112
KENNESAW GA 30144**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



DETACH HERE

RICK SCOTT, GOVERNOR

MATILDE MILLER, INTERIM SECRETARY

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

LICENSE NUMBER

CCC1331153

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

**BOUCHARD, DONALD JOSEPH
JASPER CONTRACTORS INC.
5380 E COLONIAL DRIVE
ORLANDO FL 32807**



ISSUED: 03/14/2017

DISPLAY AS REQUIRED BY LAW

SEQ # L1703140000799

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.**

2017

EXPIRES 9/30/2018

1806-1147430

1806 ROOFING CONTRACTOR \$30.00 1 EMPLOYEE ; 5000 BUSINESS OFFICE \$50.00 55 EMPLOYEE ;

TOTAL TAX \$80.00
PREVIOUSLY PAID \$80.00
TOTAL DUE \$0.00

WEDDING BRIAN
STEPHEN MICHAEL H (QUALIFIER)

JASPER CONTRACTORS INC
1690 ROBERTS BLVD NW STE 112
KENNESAW GA 30144-7830

5380 E COLONIAL DR
U - ORLANDO, 32807

PAID: \$80.00 0098-00782908 7/18/2017

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.**

2017

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TOTAL DUE \$0.00



• WEDDING BRIAN
STEPHEN MICHAEL H (QUALIFIER)

JASPER CONTRACTORS INC
1690 ROBERTS BLVD NW STE 112
KENNESAW GA 30144-7830

5380 E COLONIAL DR
U - ORLANDO, 32807

PAID: \$80.00 0098-00782908 7/18/2017

This receipt is official when validated by the Tax Collector.