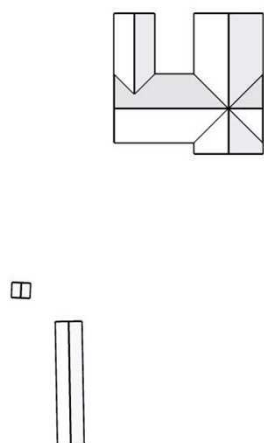


6839 Southwest County Rd 242, Lake City, FL 32024

Report: 47957093



In this 3D model, facets appear as semi-transparent to reveal overhangs.

PREPARED FOR

Contact:	Tiffany Pittman
Company:	Buildpro
Address:	22171 MCH Rd Mandeville, LA 70471
Phone:	985-707-4838

TABLE OF CONTENTS

Images	1
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MEASUREMENTS

Total Roof Area = 5,426 sq ft
 Total Roof Facets = 14
 Predominant Pitch = 4/12
 Number of Stories ≤ 1
 Total Ridges/Hips = 252 ft
 Total Valleys = 128 ft
 Total Rakes = 210 ft
 Total Eaves = 327 ft

Measurements provided by www.eagleview.com



Certified Accurate

www.eagleview.com/Guarantee.aspx

6839 Southwest County Rd 242, Lake City, FL 32024

Report: 47957093

IMAGES

The following aerial images show different angles of this structure for your reference.

Top View

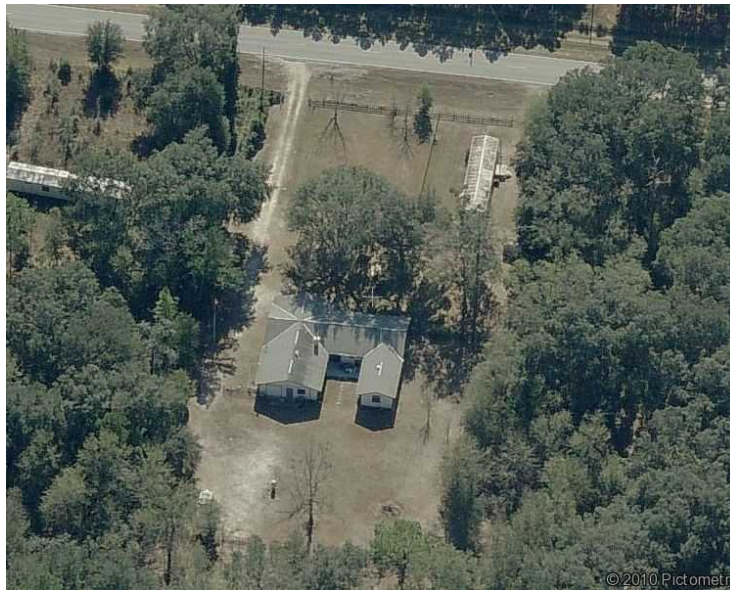


6839 Southwest County Rd 242, Lake City, FL 32024

Report: 47957093

IMAGES

North Side



South Side



6839 Southwest County Rd 242, Lake City, FL 32024

Report: 47957093

IMAGES

East Side



West Side



LENGTH DIAGRAM

Total Line Lengths:

Ridges = 252 ft

Hips = 0 ft

Valleys = 128 ft

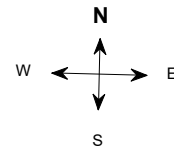
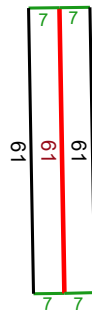
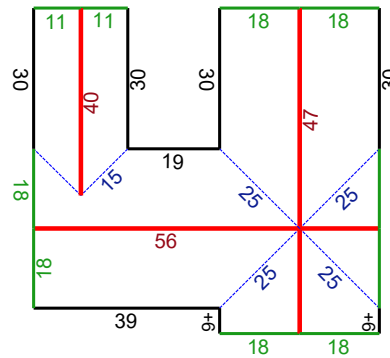
Rakes = 210 ft

Eaves = 327 ft

Flashing = 0 ft

Step flashing = 0 ft

Parapets = 0 ft



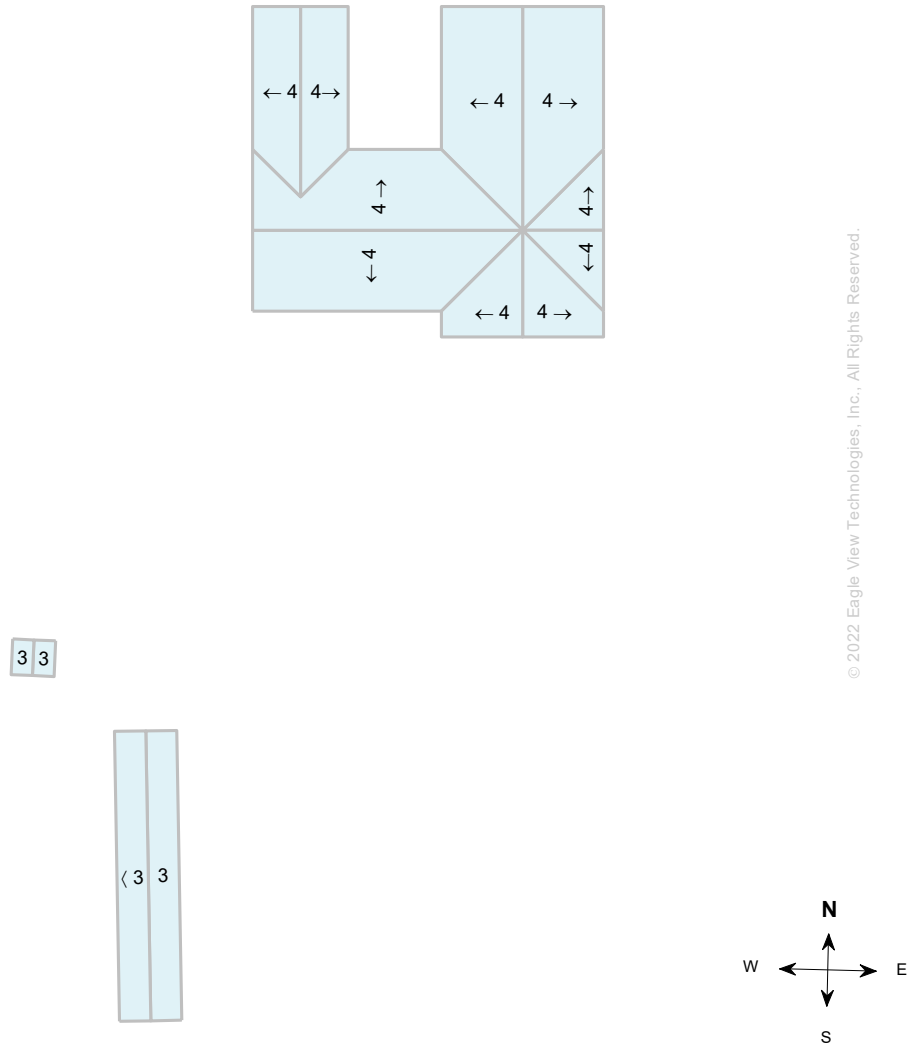
Note: This diagram contains segment lengths (rounded to the nearest whole number) over 5.0 Feet. In some cases, segment labels have been removed for readability. Plus signs preface some numbers to avoid confusion when rotated (e.g. +6 and +9).

6839 Southwest County Rd 242, Lake City, FL 32024

Report: 47957093

PITCH DIAGRAM

Pitch values are shown in inches per foot, and arrows indicate slope direction. The predominant pitch on this roof is 4/12



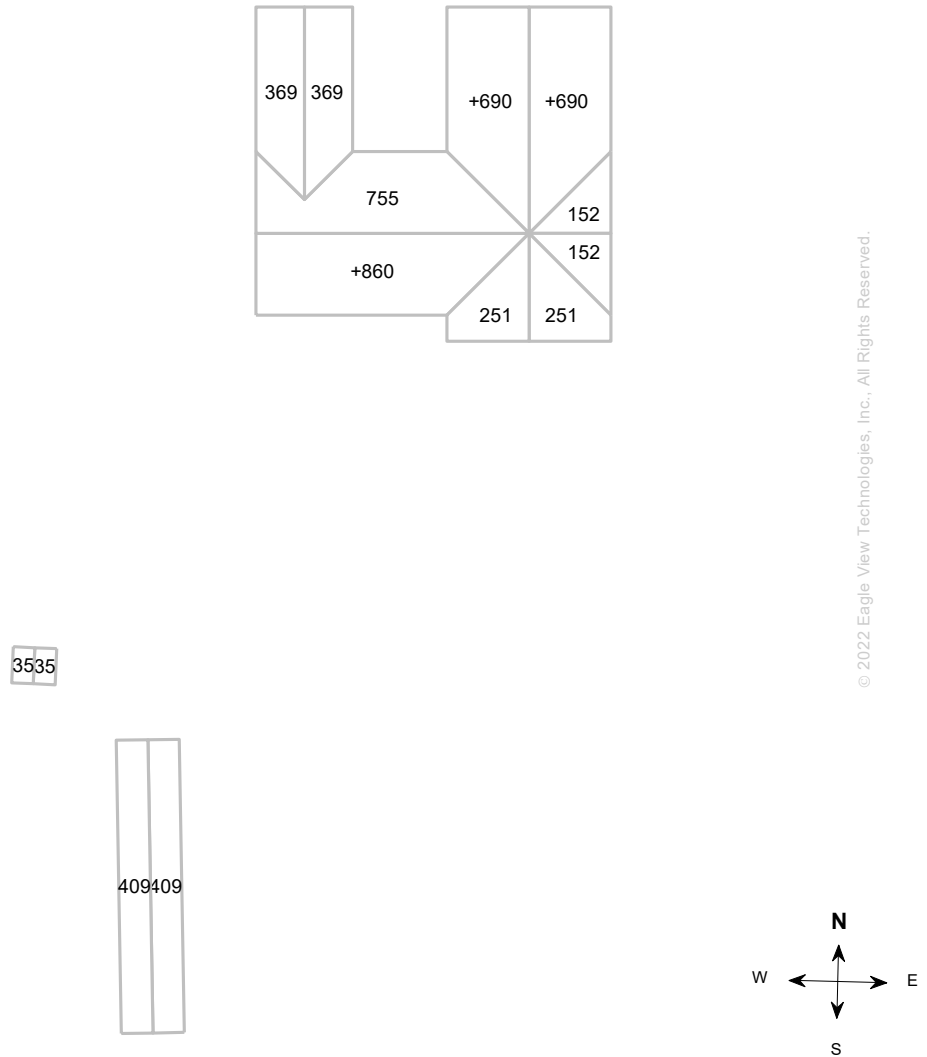
Note: This diagram contains labeled pitches for facet areas larger than 20.0 square feet. In some cases, pitch labels have been removed for readability. Blue shading indicates a pitch of 3/12 and greater.

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AREA DIAGRAM

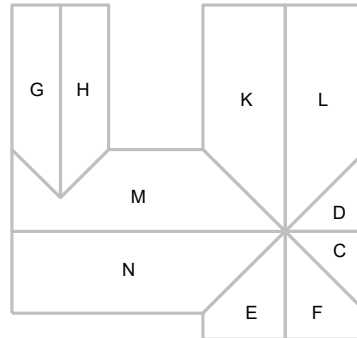
Total Area = 5,426 sq ft, with 14 facets.



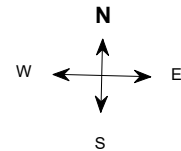
Note: This diagram shows the square feet of each roof facet (rounded to the nearest Foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).

NOTES DIAGRAM

Roof facets are labeled from smallest to largest (A to Z) for easy reference.



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6839 Southwest County Rd 242, Lake City, FL 32024

Report: 47957093

REPORT SUMMARY

Structure #1

Areas per Pitch

Roof Pitches	4/12
Area (sq ft)	4538.9
% of Roof	100%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Structure Complexity

Simple	Normal	Complex
--------	--------	---------

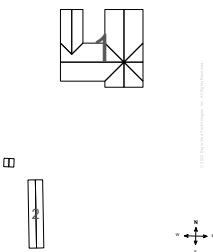
Waste Calculation

NOTE: This waste calculation table is for asphalt shingle roofing applications. All values in table below only include roof areas of 3/12 pitch or greater. For total measurements of all pitches, please refer to the **Lengths, Areas, and Pitches** section below.

Waste %	0%	5%	8%	10%	12%	15%	20%	25%	30%
Area (Sq ft)	4539	4766	4903	4993	5084	5220	5447	5674	5901
Squares *	45.66	47.66	49.33	50.00	51.00	52.33	54.66	57.00	59.33
	Measured			Suggested					

* Squares are rounded up to the 1/3 of a square.

Additional materials needed for ridge, hip, and starter lengths are not included in the above table. The provided suggested waste factor is intended to serve as a guide—actual waste percentages may differ based upon several variables that EagleView does not control. These waste factor variables include, but are not limited to, individual installation techniques, crew experiences, asphalt shingle material subtleties, and potential salvage from the site. Individual results may vary from the suggested waste factor that EagleView has provided. The suggested waste is not to replace or substitute for experience or judgment as to any given replacement or repair work.



Total Roof Facets = 10

Lengths, Areas and Pitches

Ridges = 183 ft (5 Ridges)
Hips = 0 ft (0 Hips)
Valleys = 128 ft (6 Valleys)
Rakes† = 164 ft (10 Rakes)
Eaves/Starter‡ = 190 ft (8 Eaves)
Drip Edge (Eaves + Rakes) = 354 ft (18 Lengths)
Parapet Walls = 0 (0 Lengths)
Flashing = 0 ft (0 Lengths)
Step flashing = 0 ft (0 Lengths)
Predominant Pitch = 4/12
Total Area (All Pitches) = 4539 sq ft

Property Location

Longitude = -82.7687734
Latitude = 30.1185907

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

† Rakes are defined as roof edges that are sloped (not level).
‡ Eaves are defined as roof edges that are not sloped and level.

REPORT SUMMARY

Structure #2

Areas per Pitch	
Roof Pitches	3/12
Area (sq ft)	817.4
% of Roof	100%

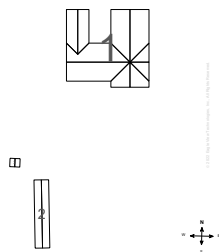
The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Structure Complexity		
Simple	Normal	Complex

Waste Calculation									
NOTE: This waste calculation table is for asphalt shingle roofing applications. All values in table below only include roof areas of 3/12 pitch or greater. For total measurements of all pitches, please refer to the Lengths, Areas, and Pitches section below.									
Waste %	0%	4%	9%	12%	14%	16%	19%	24%	29%
Area (Sq ft)	818	851	892	917	933	949	974	1015	1056
Squares *	8.33	8.66	9.00	9.33	9.33	9.66	10.00	10.33	10.66
	Measured				Suggested				

* Squares are rounded up to the 1/3 of a square.

Additional materials needed for ridge, hip, and starter lengths are not included in the above table. The provided suggested waste factor is intended to serve as a guide—actual waste percentages may differ based upon several variables that EagleView does not control. These waste factor variables include, but are not limited to, individual installation techniques, crew experiences, asphalt shingle material subtleties, and potential salvage from the site. Individual results may vary from the suggested waste factor that EagleView has provided. The suggested waste is not to replace or substitute for experience or judgment as to any given replacement or repair work.



Total Roof Facets = 2

Lengths, Areas and Pitches

Ridges = 61 ft (1 Ridges)
Hips = 0 ft (0 Hips)
Valleys = 0 ft (0 Valleys)
Rakes† = 27 ft (4 Rakes)
Eaves/Starter‡ = 122 ft (2 Eaves)
Drip Edge (Eaves + Rakes) = 149 ft (6 Lengths)
Parapet Walls = 0 (0 Lengths)
Flashing = 0 ft (0 Lengths)
Step flashing = 0 ft (0 Lengths)
Predominant Pitch = 3/12
Total Area (All Pitches) = 818 sq ft

Property Location

Longitude = -82.7687734
Latitude = 30.1185907

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

† Rakes are defined as roof edges that are sloped (not level).
‡ Eaves are defined as roof edges that are not sloped and level.

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REPORT SUMMARY

Structure #3

Areas per Pitch	
Roof Pitches	3/12
Area (sq ft)	69.6
% of Roof	100%

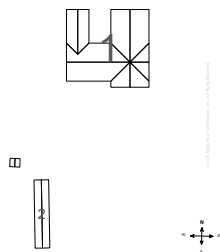
The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Structure Complexity		
Simple	Normal	Complex

Waste Calculation									
NOTE: This waste calculation table is for asphalt shingle roofing applications. All values in table below only include roof areas of 3/12 pitch or greater. For total measurements of all pitches, please refer to the Lengths, Areas, and Pitches section below.									
Waste %	0%	24%	29%	34%	39%	42%	44%	46%	49%
Area (Sq ft)	70	87	91	94	98	100	101	103	105
Squares *	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33
	Measured						Suggested		

* Squares are rounded up to the 1/3 of a square.

Additional materials needed for ridge, hip, and starter lengths are not included in the above table. The provided suggested waste factor is intended to serve as a guide—actual waste percentages may differ based upon several variables that EagleView does not control. These waste factor variables include, but are not limited to, individual installation techniques, crew experiences, asphalt shingle material subtleties, and potential salvage from the site. Individual results may vary from the suggested waste factor that EagleView has provided. The suggested waste is not to replace or substitute for experience or judgment as to any given replacement or repair work.



Total Roof Facets = 2

Lengths, Areas and Pitches

Ridges = 8 ft (1 Ridges)
 Hips = 0 ft (0 Hips)
 Valleys = 0 ft (0 Valleys)
 Rakes† = 19 ft (4 Rakes)
 Eaves/Starter‡ = 15 ft (2 Eaves)
 Drip Edge (Eaves + Rakes) = 34 ft (6 Lengths)
 Parapet Walls = 0 (0 Lengths)
 Flashing = 0 ft (0 Lengths)
 Step flashing = 0 ft (0 Lengths)
 Predominant Pitch = 3/12
Total Area (All Pitches) = 70 sq ft

Property Location

Longitude = -82.7687734
 Latitude = 30.1185907

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

† Rakes are defined as roof edges that are sloped (not level).
 ‡ Eaves are defined as roof edges that are not sloped and level.

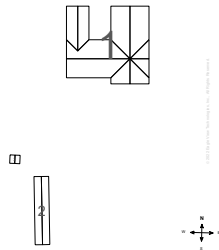
REPORT SUMMARY

All Structures

Areas per Pitch		
Roof Pitches	3/12	4/12
Area (sq ft)	887.0	4538.8
% of Roof	16.3%	83.6%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

All Structures Totals



Total Roof Facets = 14

Lengths, Areas and Pitches

Ridges = 252 ft (7 Ridges)
 Hips = 0 ft (0 Hips).
 Valleys = 128 ft (6 Valleys)
 Rakes[†] = 210 ft (18 Rakes)
 Eaves/Starter[‡] = 327 ft (12 Eaves)
 Drip Edge (Eaves + Rakes) = 537 ft (30 Lengths)
 Parapet Walls = 0 (0 Lengths).
 Flashing = 0 ft (0 Lengths)
 Step flashing = 0 ft (0 Lengths)
 Predominant Pitch = 4/12
Total Area (All Pitches) = 5,426 sq ft

Property Location

Longitude = -82.7687734
 Latitude = 30.1185907

Notes

This was ordered as a residential property. There were no changes to the structure in the past four years.

Measurements by Structure									
Structure	Area (sq ft)	Ridges (ft)	Hips (ft)	Valleys (ft)	Rakes (ft)	Eaves (ft)	Flashing (ft)	Step Flashing (ft)	Parapets (ft)
1	4539	183	0	128	164	190	0	0	0
2	818	61	0	0	27	122	0	0	0
3	70	8	0	0	19	15	0	0	0

All values in this table are rounded up to the nearest Foot for each separate structure. Measurement totals displayed elsewhere in this report are added together before rounding which may cause totals to differ.

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

[†] Rakes are defined as roof edges that are sloped (not level).
[‡] Eaves are defined as roof edges that are not sloped and level.

6839 Southwest County Rd 242, Lake City, FL 32024

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Online Maps

Online map of property

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=6839+Southwest+County+Rd+242,Lake+City,FL,32024

Directions from Buildpro to this property

http://maps.google.com/maps?f=d&source=s_d&saddr=22171+MCH+Rd,Mandeville,LA,70471&daddr=6839+Southwest+County+Rd+242,Lake+City,FL,32024

6839 Southwest County Rd 242, Lake City, FL 32024

Report: 47957093

IMPORTANT LEGAL NOTICE AND DISCLAIMER**Notice and Disclaimer**

No Warranty: The Copyrighted Materials are provided to you "as is," and you agree to use it at your own risk.

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Contractors agree to always conduct a preliminary site survey to verify Roof Report ordered. In the event of an error in a Report, your sole remedy will be a refund of the fees paid by you to obtain this Report.

Florida Roof Agreement



Customer Name: Henri Flores Date: 8/23/2022
 Jobsite: 6839 SW County Road 242 Lake City FL 32024 Sales Rep: Dominick Stevens
 Cell: (757) 641-6945 Home: _____ Email: henri_flores@outlook.com

☒ Owens Corning Roofing System
 TruDefinition Duration® Shingles

☐ Flat Roof

SEAL

HELPS CREATE A WATER-PROOF BARRIER

- Ice & Water Barrier
- Synthetic Underlayment

DEFEND

HELPS PROTECT AGAINST NATURE'S ELEMENTS

- Starter Shingles
- TruDefinition Duration Shingles with Surenail
- High Hip & Ridge Shingles

BREATHE

FOR BALANCED ATTIC VENTILATION

- Options: Ridge Vent, Slant Back, or Turbine

FLAT ROOF WARRANTY

- 12 Year Limited Warranty

LIMITED LIFETIME WARRANTY

Roof Color: onyx black

Ventilation Option: other

- Remove and haul away up to 1 layer of existing roofing shingles and underlayment. Inspect existing roof deck for hidden damage. (1) Sheets of decking included in cost. Any additional sheets at \$125/ sheet
- Furnish and install all labor and materials needed for new asphalt shingle roof.
- All roofing materials will be installed according to manufacturer's specifications.
- (6) Nails per shingle. High wind application.
- Installation will be performed to Florida Building Codes and Manufacturer's specifications.



Not sure of ventilation type.

Roofing Notes: _____

Investment Amount: 40794.00 Deposit Amount: Solar Combo Total Due After Completion: Solar Combo
 Price includes tax, labor and materials.

Payment Type: ☐ Cash ☐ Check # _____ ☐ Credit Card ☒ Financing

I agree to the above contract with Buildpro Roofing. I have been notified that I may cancel this agreement at any time prior to midnight of the third business day after the date of this agreement. Price is based on current material prices and is good for 30 days.

Authorized Signature: Henri Flores Date: 8/23/2022
DocuSigned by: 05108E8EA9D843B...

Buildpro Representative: Dominick Stevens Date: 8/23/2022
2342B34CF41042E...

Terms & Conditions



1. Buildpro is not responsible for conditions that are encountered at the installation site which are concealed physical conditions or unknown physical conditions. These include but are not limited to, rotten wood, any termite damage, damaged caused by other pest, water leaks, any defects due to prior non-code procedures performed at jobsite.
2. This contract is subject to review and acceptance of the management of Buildpro.
3. The Buyer may cancel within 3 business days of the acceptance of agreement. Cancellation must be in writing and postmarked before the end of the third business day or hand delivered to office before said date.
4. It is expressly agreed the Seller shall not be liable for any defect resulting from installations requested by Buyer which departs from conventional installation methods or practices, or, defects resulting from design changes requested by Buyer which depart from approved engineering specifications or building codes.
5. The buyer's name, address, any photographs and/or video may be used by Buildpro in any advertising.
6. We will not honor our warranty on agreements that are not paid in full.
7. Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association under its Construction Industry Arbitration Rules, and judgement on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. In the event of any arbitration or litigation relating to the project, project performance or this contract, the prevailing party shall be entitled to reasonable attorney fees, costs and expenses. If any amounts due under this contract are not paid when due, any such unpaid balances shall be charged interest at the rate of 1 1/2 % per month which is an annual percentage rate (APR) of 18 % per year.

Please make all checks payable to Buildpro; 114 Northpark Blvd, Suite 14, Covington, LA 70433

We do accept all major credit cards.



A warranty certificate will be issued when payment in full is received. Warranty certificate will outline terms of labor warranty. I hereby accept the estimate as set forth above and the conditions on the reverse side and authorize Buildpro to perform the scope of work according to the conditions and specifications above. Sales tax is included. Estimate is good for 30 days from the proposed date.

AL Lic #54486, AZ Lic #ROC331643, AR Lic #366250721, FL Lic #CCC1332319, GA Lic # #GCCO006387, IL Lic #104.018978, KS Lic #21-006770, LA Lic #882938, MA Lic #200209, MS Lic #21374-MC, NJ Lic #13VH11377300, NM Lic #395254, NM Lic #C395254, NC Lic #81871, OK Lic #80004398, SC Lic #CLG.122153, TN Lic #73454, UT Lic #12229347-5501, VA Lic #2705 177478, WV Lic #WV060644



NEMO|etc.

Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT

Owens Corning

One Owens Corning Parkway
Toledo, OH 43659
(740) 404-7829

Evaluation Report O37940.02.12-R11

FL10674-R16

Date of Issuance: 02/06/2012

Revision 11: 12/11/2020

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. The product described herein has been evaluated for compliance with the **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: Owens Corning Asphalt Roof Shingles

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

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

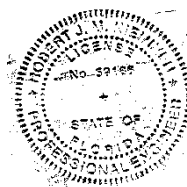
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 10.

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 12/11/2020. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC 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. NEMO ETC, LLC 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 NEMO ETC, LLC 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.

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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 **7th Edition (2020) Florida Building Code** 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:

Section	Property	Standard	Year
1507.2.4, R905.2.3	Physical Properties	ASTM D1970	2015
1507.2.5, R905.2.4	Material standard	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	2019

3. REFERENCES:

Entity	Examination	Reference	Date
Owens Corning	Declaration	Equivalency Declaration	08/06/2019
PRI (TST5878)	ASTM D1970	OCF-382-02-01	10/24/2017
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
PRI (QUA9110)	Quality Control	Service Confirmation	04/05/2020
PRI (QUA9110)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: ASPHALT SHINGLE COMPONENTS				
Type	Product	Plant(s)	Material Standard	Description
Accessory Starter Strips	Starter Strip Shingle	H-TX, OR	ASTM D3462	starter strips for asphalt roof shingles
	Starter Strip Plus	MN, OR		
	SRS TopShield Starter	MN, OR		
	Starter Shingle Roll	NH	ASTM D1970	mineral-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen starter
Asphalt Shingles	Supreme®	GA, CA, CO, I-TX, NJ, OH, TN, OR, IL	ASTM D3462	fiberglass reinforced 3-tab asphalt roof shingles
	Berkshire®	MN	ASTM D3462	fiberglass reinforced, 4-tab asphalt roof shingles
	Duration® Premium	CA, OR	ASTM D3462	fiberglass reinforced, laminated asphalt roof shingles
	Duration® Premium COOL	CA		
	TruDefinition® Duration®	IN, CA, CO, I-TX, FL, NJ, OH, MN, OR, GA, IL, TN		
	TruDefinition® Duration® Designer Color Collection			
	Oakridge®			
	TruDefinition® Oakridge®	H-TX, I-TX		
	WeatherGuard® HP	TN		

TABLE 1: ASPHALT SHINGLE COMPONENTS

Type	Product	Plant(s)	Material Standard	Description
Hip and Ridge Shingles	Berkshire® Hip and Ridge Shingles with Sealant	MN	ASTM D3462	fiberglass reinforced, hip and ridge asphalt roof shingles
	DuraRidge® Hip and Ridge Shingles with Sealant	MN		
	ProEdge®	GA, CA, OH, OR		
	WeatherGuard® HP Hip and Ridge Shingles	TN		

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC 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 High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.5 Wind Classification: Refer to Section 6 for installation requirements to meet wind classifications

TABLE 2A: WIND CLASSIFICATIONS, ASPHALT SHINGLES

Product	FBC Table 1507.2.7.1 or R905.2.6.1
Supreme®	ASTM D3161(F) & ASTM D7158(H)
Berkshire®	
Duration® Premium	
Duration® Premium COOL	
TruDefinition® Duration®	
TruDefinition® Duration® Designer Color Collection	
Oakridge®	
TruDefinition® Oakridge®	
WeatherGuard® HP	

5.5.1 Classification by ASTM D7158:

ASTM D7158, Class H applies only 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.

TABLE 2B: WIND CLASSIFICATIONS, STARTER STRIPS AND HIP & RIDGE		
Type	Product	FBC Table 1507.2.7.1 or R905.2.6.1
Starter Strips	Starter Strip Shingle	ASTM D3161, Class F
	Starter Strip Plus	
	SRS TopShield Starter	
Hip & Ridge Shingles	Berkshire® Hip and Ridge Shingles with Sealant	ASTM D3161, Class F
	DuraRidge® Hip and Ridge Shingles with Sealant	
	ProEdge®	
	WeatherGuard® HP Hip and Ridge Shingles	

- 5.5.2 Refer to Owens Corning published information on wind resistance and installation limitations.
- 5.6 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

6. INSTALLATION:

6.1 GENERAL:

- 6.1.1 Roof deck, slope, underlayment and fasteners shall comply with FBC 1507.2 / R905.2 and the shingle manufacturer's minimum requirements.
- 6.1.2 Underlayment shall be acceptable to the shingle manufacturer 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.
- 6.1.3 Fasteners shall be in accordance with the shingle manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.
- 6.1.4 Owens Corning asphalt shingles are acceptable for use in reroof (tear-off) or recover applications, subject to the limitations set forth in FBC Section 1511 or R908 and published installation instructions.

6.2 ACCESSORY STARTERS:

- 6.2.1 Installation of **Starter Strip Shingle, Starter Strip Plus and SRS TopShield Starter** shall comply with the Owens Corning current published instructions, using minimum five (5) nails per strip.

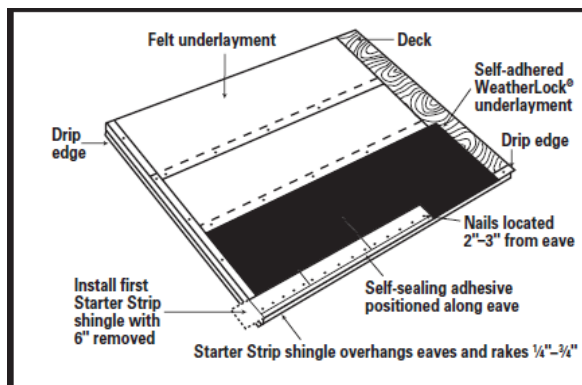


Figure 1: Minimum Nailing, Starter Strip

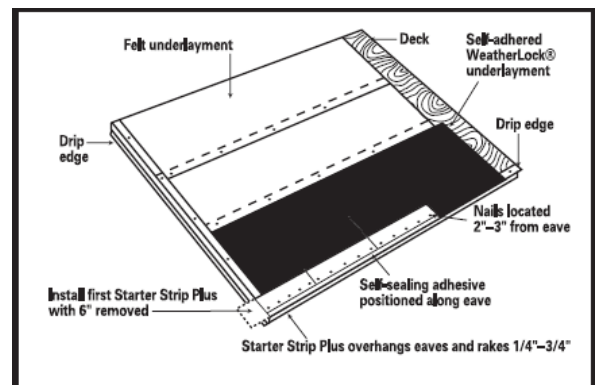


Figure 2: Minimum Nailing, Starter Strip Plus

6.2.2 Installation of **Starter Shingle Roll** shall comply with the Owens Corning current published instructions.

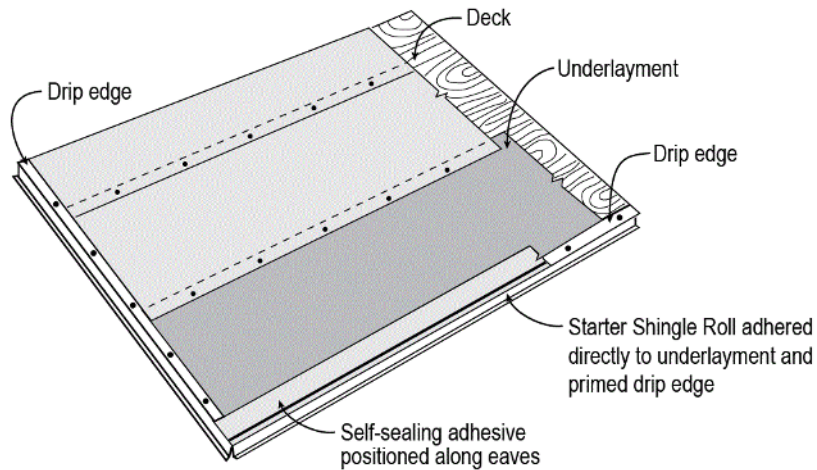


Figure 3: Starter Shingle Roll

6.3 ASPHALT SHINGLES:

6.3.1 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.

Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Refer to Owens Corning published information on wind resistance and installation limitations.

6.3.1.1 Supreme:

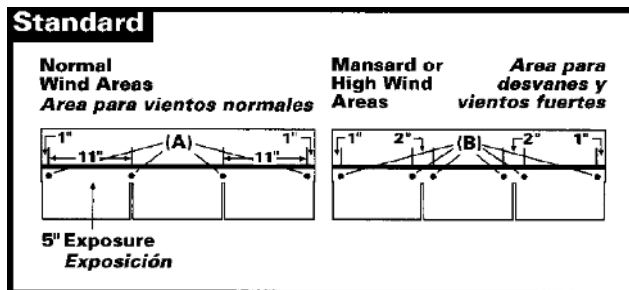


Figure 4: Minimum Nailing, Supreme
(Standard Size)

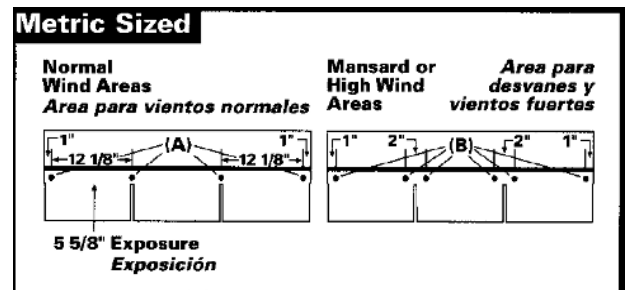


Figure 5: Minimum Nailing, Supreme
(Metric Size)

6.3.1.2 Berkshire®:

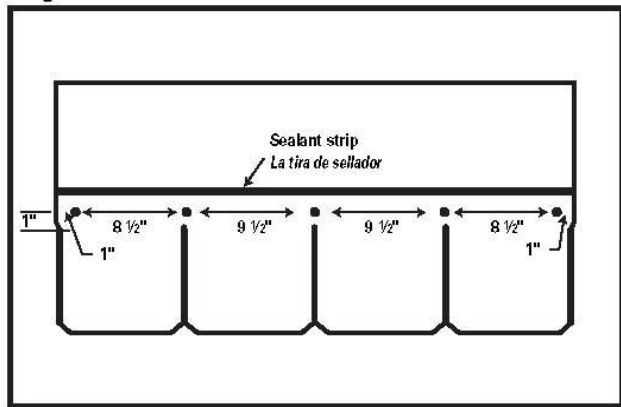


Figure 6: 5-Nail Pattern, Berkshire

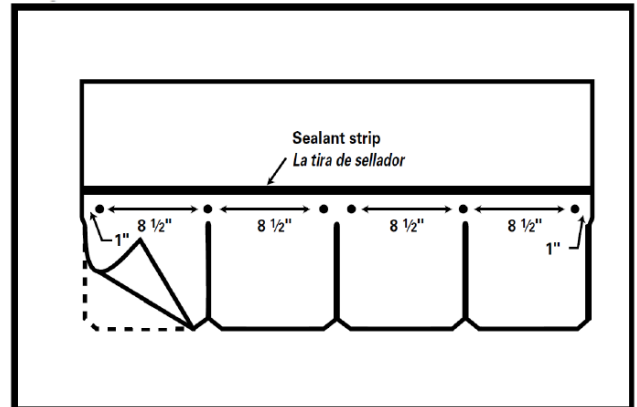


Figure 7: 6-Nail Pattern, Berkshire

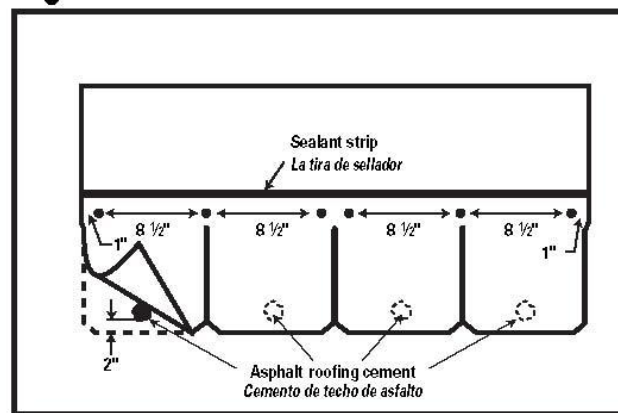


Figure 8: Mansard or Steep Slope Pattern, Berkshire

6.3.1.3 **Duration® Premium, TruDefinition® Duration, Duration® Premium COOL & TruDefinition® Duration® Designer Color Collection:**

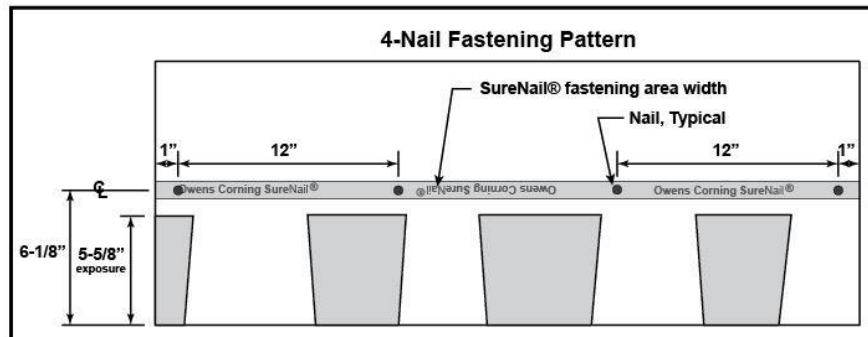


Figure 9: Standard 4-Nail Pattern, Duration

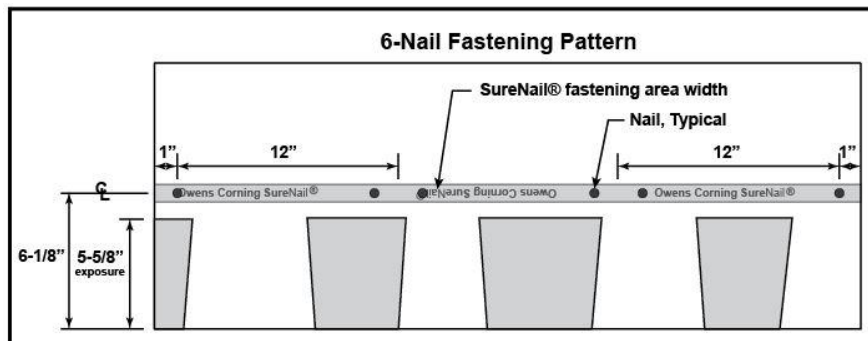


Figure 10: 6-Nail Pattern, Duration

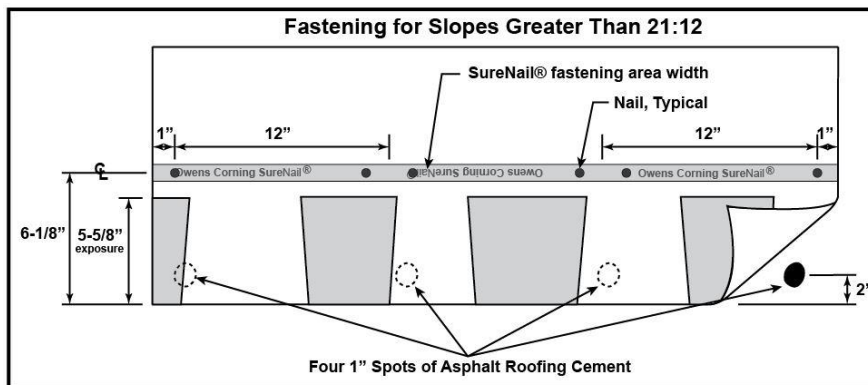


Figure 11: Mansard or Steep Slope Pattern, Duration

6.3.1.4 **TruDefinition® Oakridge®, Oakridge®:**

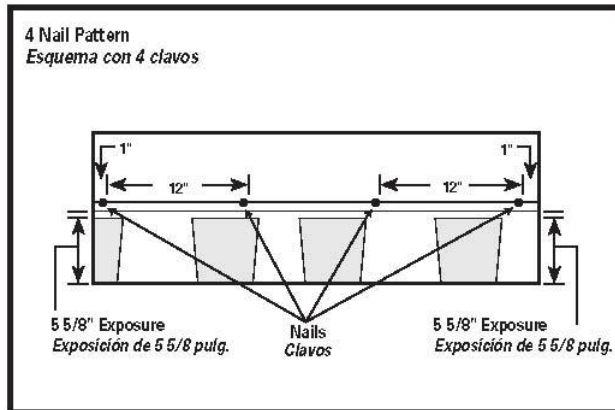


Figure 12: Standard 4-Nail Pattern, Oakridge

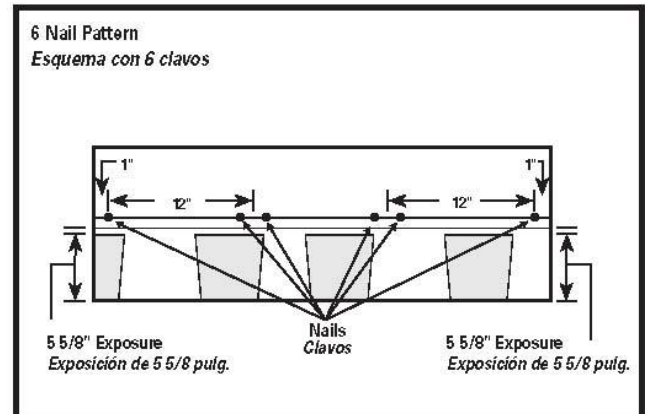


Figure 13: 6-Nail Pattern, Oakridge

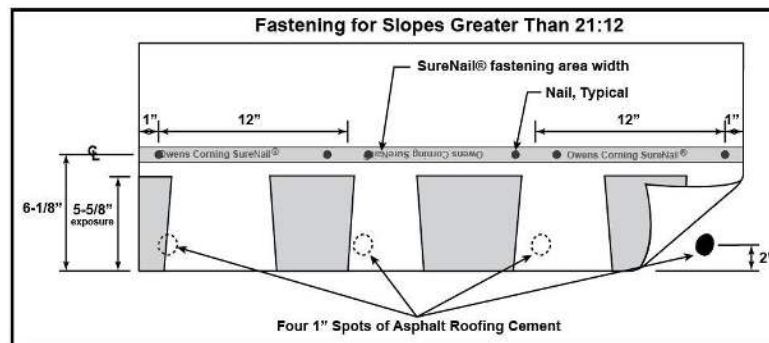


Figure 14: Mansard or Steep-Slope Pattern, Oakridge

6.3.1.5 **WeatherGuard® HP:**

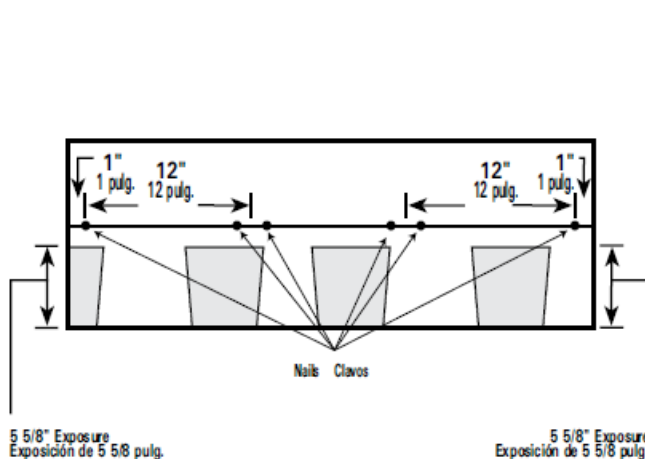


Figure 15: 6-Nail Pattern, WeatherGuard HP

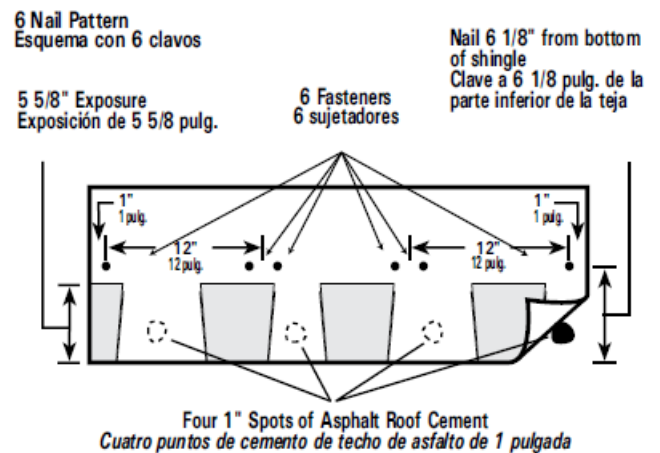


Figure 16: Mansard or Steep-Slope Pattern, WeatherGuard HP

6.4 HIP AND RIDGE SHINGLES:

6.4.1 Installation of asphalt shingles shall comply with the Owens Corning current published instructions.

- Berkshire® Hip and Ridge Shingles *with Sealant* and DuraRidge® Hip and Ridge Shingles *with Sealant* require minimum two (2) nails per shingle.
 - WeatherGuard® HP Hip and Ridge Shingles and ProEdge® require minimum four (4) nails per shingle.
- Refer to Owens Corning published information on wind resistance and installation limitations.

6.4.1.1 Berkshire® Hip and Ridge *with Sealant* and DuraRidge® Hip and Ridge Shingles *with Sealant*:

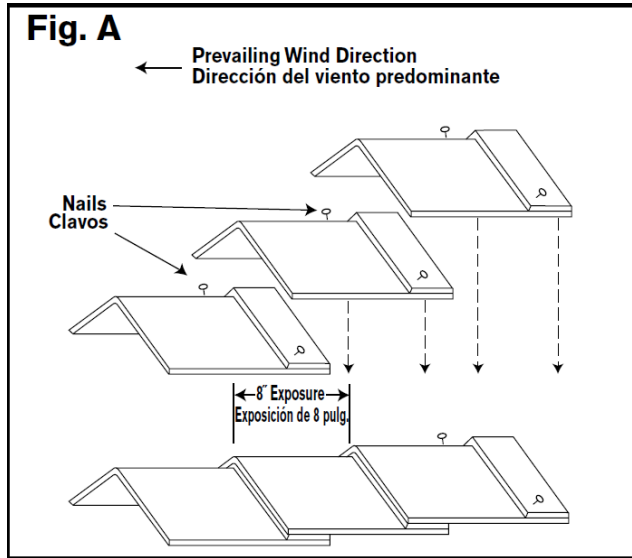


Figure 17: Isometric View, Berkshire and DuraRidge

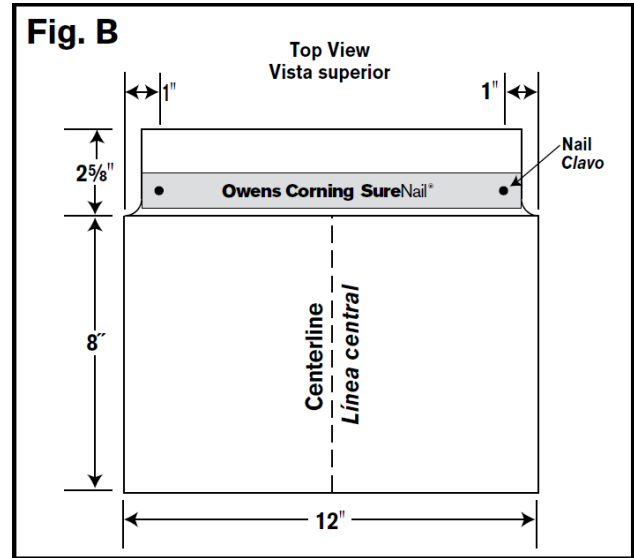


Figure 18: Plan View, Berkshire and DuraRidge

6.4.1.2 WeatherGuard® HP Hip and Ridge Shingles:

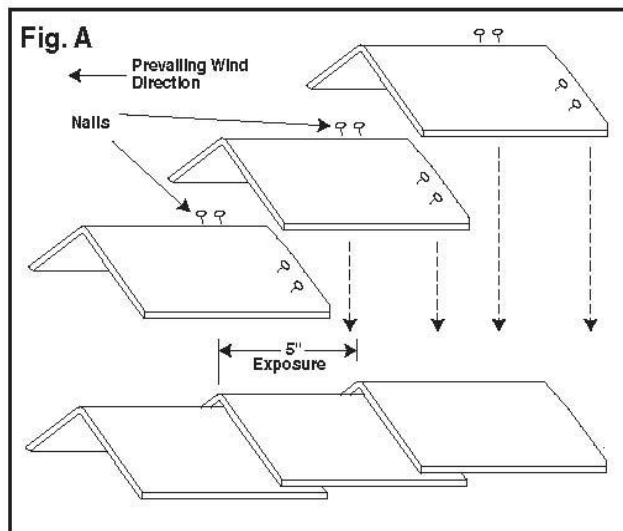


Figure 19: Isometric View, WeatherGuard HP Hip and Ridge

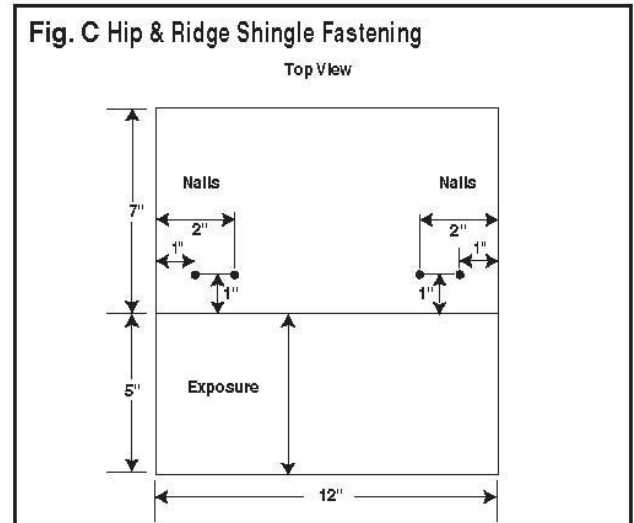


Figure 20: Plan View, WeatherGuard HP Hip and Ridge

6.4.1.3 **ProEdge®:**

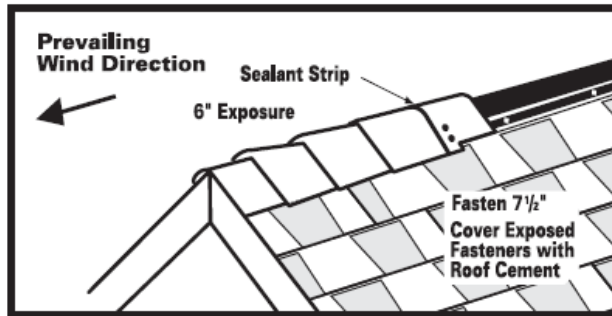


Figure 21: Isometric View, ProEdge

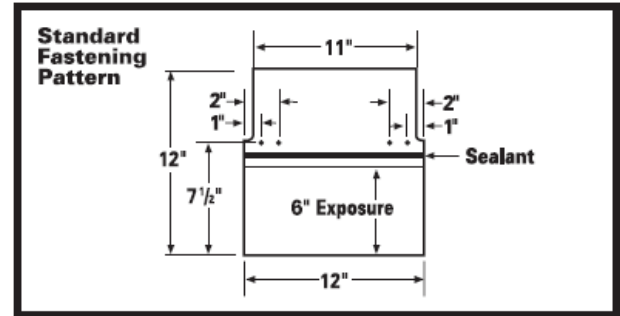


Figure 22: Plan View, ProEdge

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

PRI Construction Materials Technologies, LLC– QUA9110 ; [\(813\) 621-5777](tel:8136215777); bwilson@pricmt.com

- **END OF EVALUATION REPORT** -



NEMO|etc.

Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT

Owens Corning Roofing and Asphalt, LLC

One Owens Corning Parkway
Toledo, OH 43659
(740) 321-6345

Evaluation Report I40510.02.12-R11

FL15216-R10

Date of Issuance: 02/17/2012

Revision 11: 08/13/2021

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. The products described herein have been evaluated for compliance with the **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and FBC 1507.1.1.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words **"NEMO Evaluated"** may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

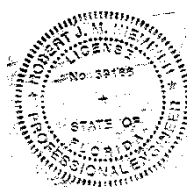
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 4.

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 08/13/2021. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC 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. NEMO ETC, LLC 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 NEMO ETC, LLC 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.

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ROOFING COMPONENT EVALUATION:
1. SCOPE:
Product Category: Roofing

Sub-Category: Underlayment

Compliance Statement: RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments, as produced by Owens Corning Roofing and Asphalt, LLC, have demonstrated compliance with the following sections of the 7th Edition (2020) 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:

Section	Properties	Standard	Year
1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Tear strength	ASTM D4533	2015
1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Tensile strength	ASTM D5035	2011
1507.1.1.1(5) / R905.1.1.1(5)	Liquid water transmission	ASTM D4869	2016
1518.4, RAS 115	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
TAS 110	Accelerated Weathering	ASTM D4798	2011

3. REFERENCES:

Entity	Examination	Reference	Date
ITS (TST1509)	ASTM D226	100539395COQ-006	10/26/2011
ITS (TST1509)	ASTM D4869	100539395COQ-002	10/26/2011
PRI (TST5878)	ASTM D226 / D4798 / D4869	OCF-394-02-07.4	01/06/2020
PRI (TST5878)	ASTM D226 / D4798	OCF-464-02-02.2	01/06/2020
PRI (TST5878)	ASTM D4533 / D5035 / D4798	1378T0109	10/15/2020
PRI (TST5878)	ASTM D4533 / D5035	1378T0127	10/15/2020
PRI (TST5878)	ASTM D8257-20	1378T0138	02/25/2021
PRI (TST5878)	ASTM D8257-20	1378T0139	03/23/2021
ITS (QUA1673)	ITS Audit Manual	3144566COQ-006A	09/10/2020
ITS (QUA1673)	Quality Control	Service Confirmation	08/13/2021
ITS (QUA1673)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

	Product	Specification	Plant(s)	Description
4.2	RhinoRoof U10	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Qingdao, China	Multilayered polymer woven coated synthetic roof underlayment
4.1	RhinoRoof U20	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Qingdao, China Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
4.2	ABC Pro Guard 20	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
43	SRS TopShield TS20	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC 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 pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.3 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** or **FBC HVHZ 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.4 **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof 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					
FBC NON-HVHZ:	1507.2	1507.3	1507.4 & 1507.5	1507.7	1507.8 & 1507.9
FBC HVHZ:	TAS 110(S10), RAS 115	TAS 110(S11), RAS 118, 119 & 120	RAS 133	TAS 110(S11)	RAS 130
Underlayment	Asphalt Shingles	Clay and Concrete Tile	Metal	Slate or Slate-Type Shingles	Wood
RhinoRoof U10	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
RhinoRoof U20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
ABC Pro Guard 20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
SRS TopShield TS20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes

5.6 Exposure Limitations:

TABLE 2: EXPOSURE LIMITATIONS	
Underlayment	Maximum Exposure (days)
RhinoRoof U10	90
RhinoRoof U20	90
ABC Pro Guard 20	30
SRS TopShield TS20	30

6. INSTALLATION:

6.1 **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments** shall be installed in accordance with the manufacturer's 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 U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments:**

6.3.1 **NON-HVHZ Jurisdictions:**

6.3.1.1 Shall be installed in compliance with requirements for a synthetic underlayment in **FBC 1507.1.1.1(2, Exception), 1507.1.1.1(3, Exception) or 1507.1.1.1(5)** or **FBC Residential R905.1.1.1(2, Exception), R905.1.1.1(3, Exception) or R905.1.1.1(5)** for the type of prepared roof covering to be installed, and the manufacturer's installation instructions. FBC requirements take precedence over the manufacturer's installation instructions.

6.3.1.2 **Fasteners:**

Minimum fasteners shall be corrosion resistant, ring-shank cap nails shall be as set forth in **FBC 1507.1.1.1 or 1507.1.1.3 or FBC Residential R905.1.1.1 or R905.1.1.3**.

6.3.2 **HVHZ Jurisdictions:**

6.3.2.1 Shall be installed in a shingle fashion with minimum 4-inch wide side (horizontal) laps and minimum 6-inch wide end laps, and fastened in accordance with FBC HVHZ 1518.2:

- grid pattern of 12 inches between the overlaps, with 6-inch spacing at the overlaps

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

Intertek Testing Services NA Inc. – QUA1673; (312) 906-7779; maura.norlander@intertek.com

- END OF EVALUATION REPORT -