



NEMO|etc.

Certificate of Authorization #32455
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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.

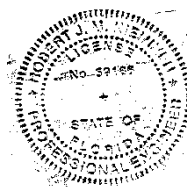
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

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.

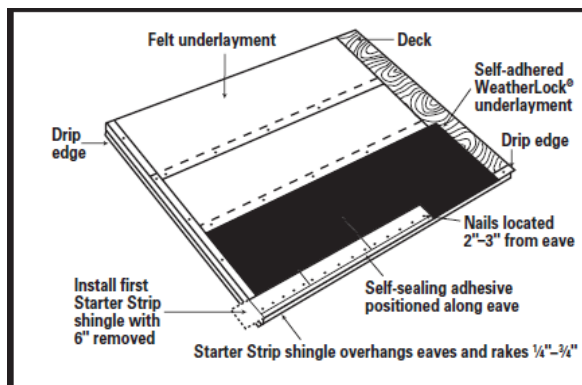


Figure 1: Minimum Nailing, Starter Strip

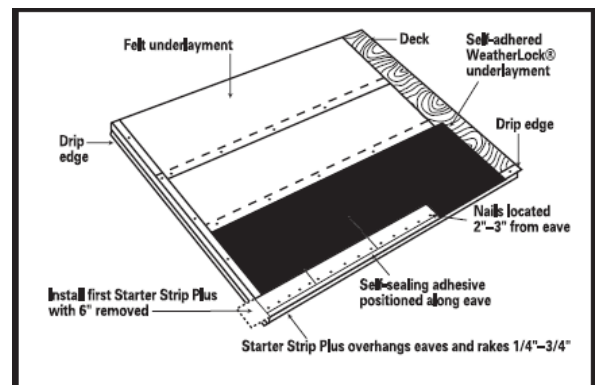


Figure 2: Minimum Nailing, Starter Strip Plus

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

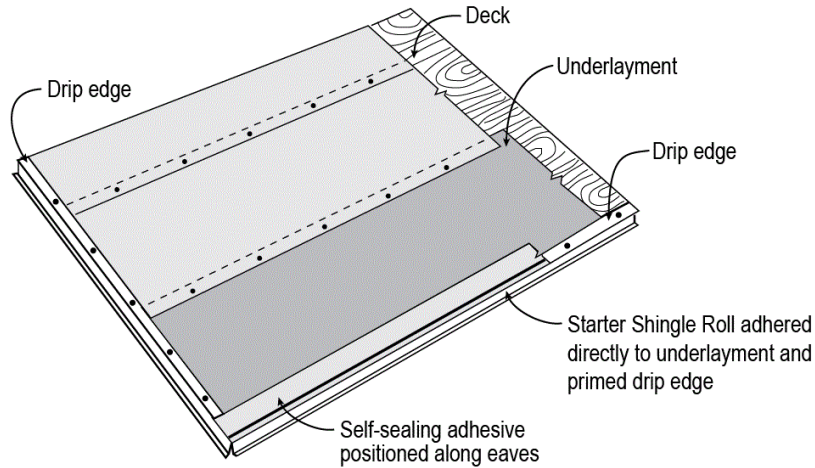


Figure 3: Starter Shingle Roll

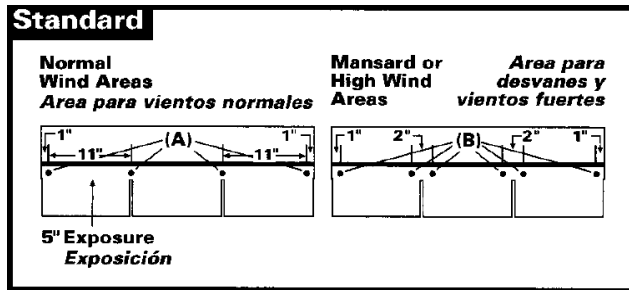
6.3 ASPHALT SHINGLES:

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:

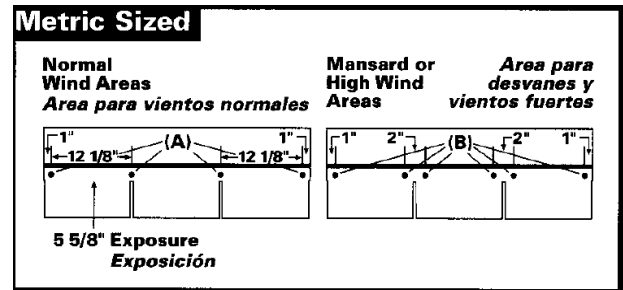
- Berkshire® shingles require minimum five (5) nails per shingle.
- WeatherGuard® HP shingles require minimum six (6) nails per shingle.

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®:**

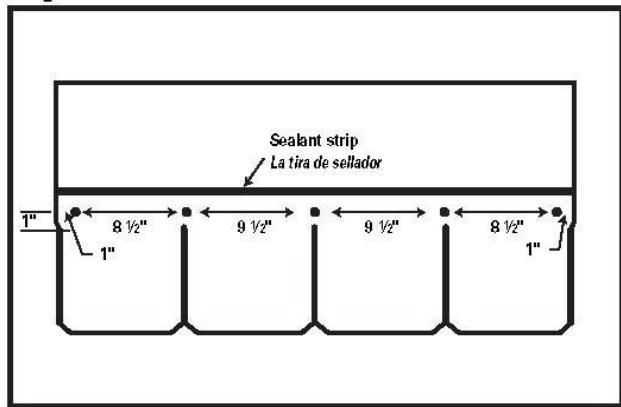


Figure 6: 5-Nail Pattern, Berkshire

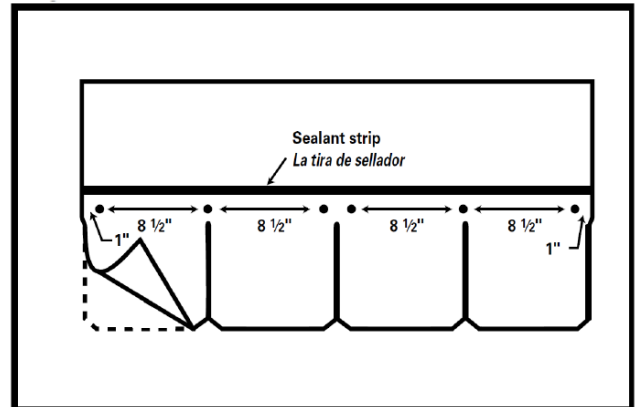


Figure 7: 6-Nail Pattern, Berkshire

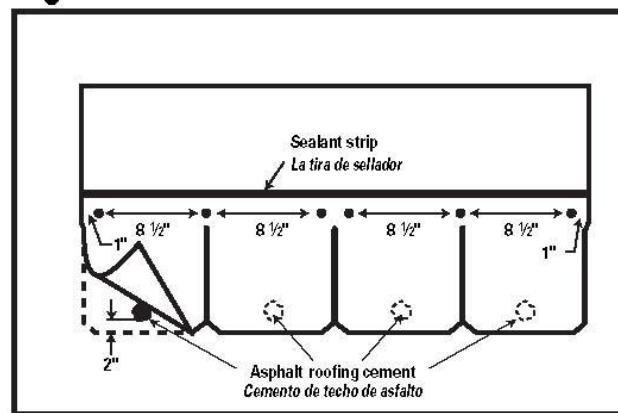


Figure 8: Mansard or Steep Slope Pattern, Berkshire

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

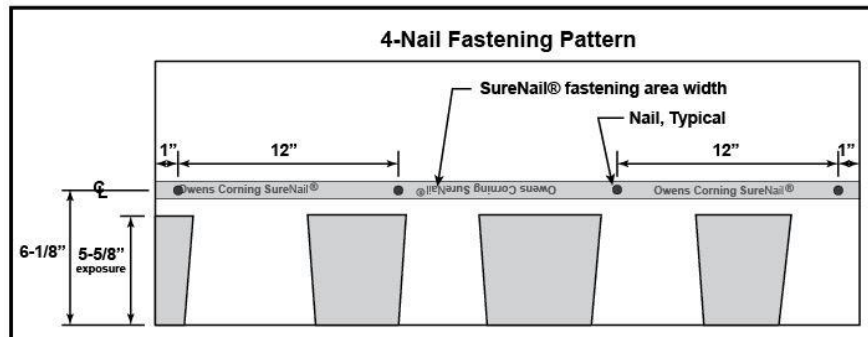


Figure 9: Standard 4-Nail Pattern, Duration

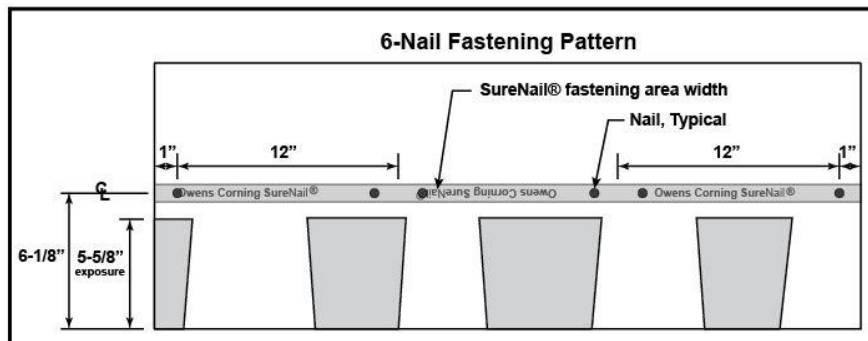


Figure 10: 6-Nail Pattern, Duration

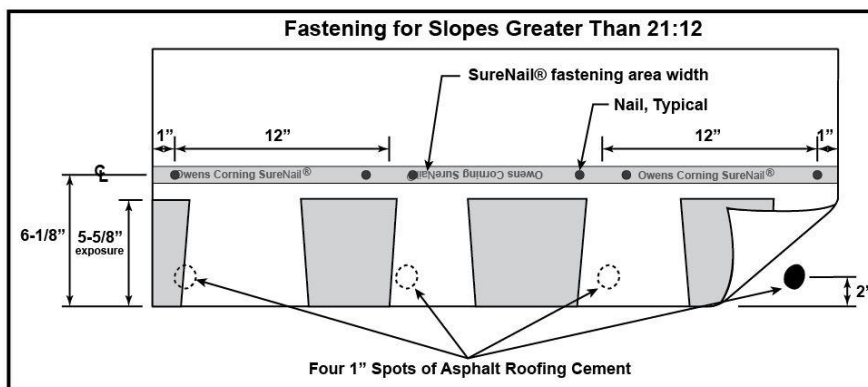


Figure 11: Mansard or Steep Slope Pattern, Duration

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

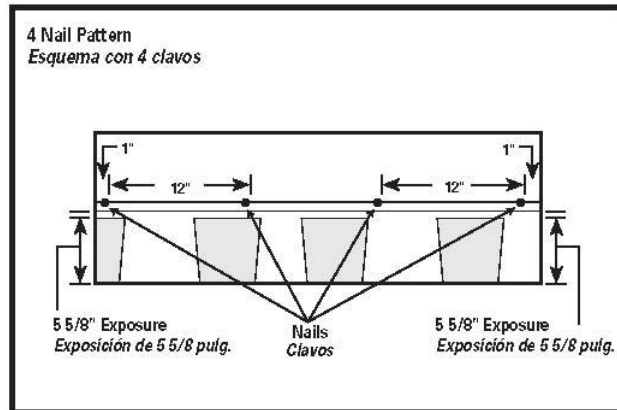


Figure 12: Standard 4-Nail Pattern, Oakridge

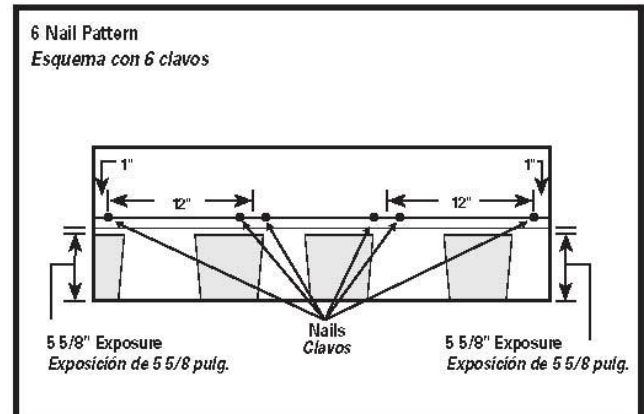


Figure 13: 6-Nail Pattern, Oakridge

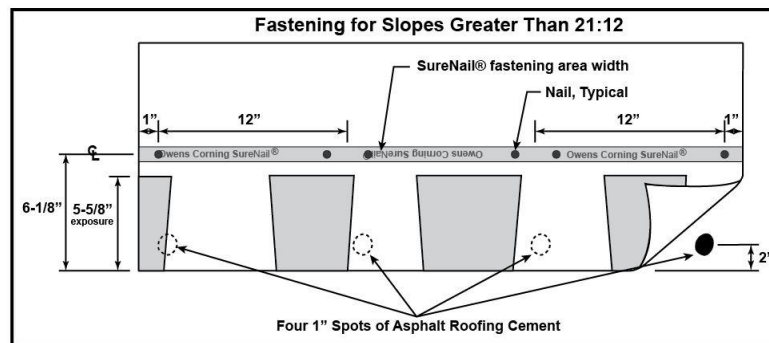


Figure 14: Mansard or Steep-Slope Pattern, Oakridge

6.3.1.5 **WeatherGuard® HP:**

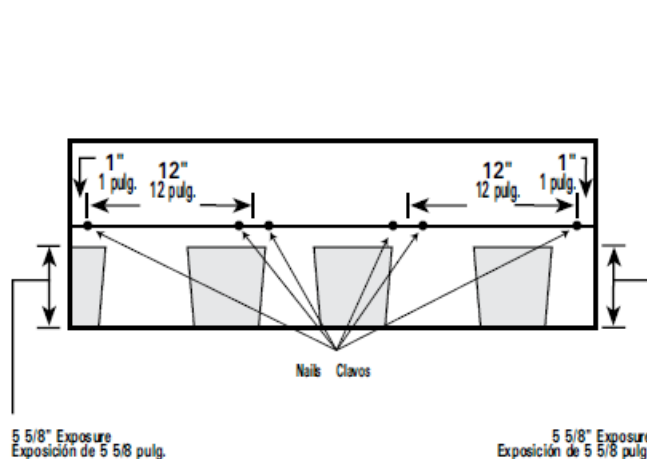


Figure 15: 6-Nail Pattern, WeatherGuard HP

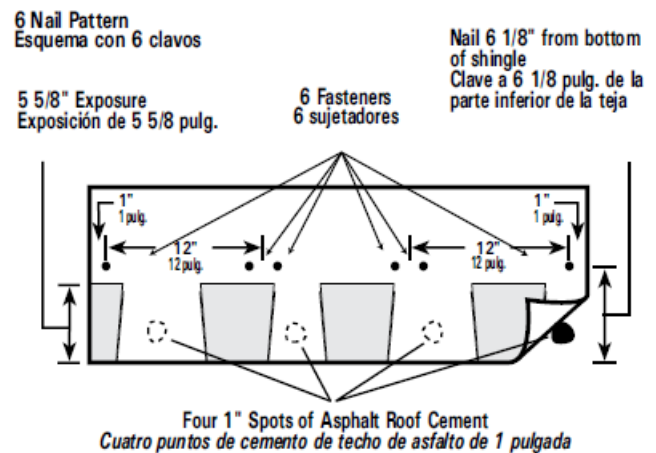


Figure 16: Mansard or Steep-Slope Pattern, WeatherGuard HP

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*:

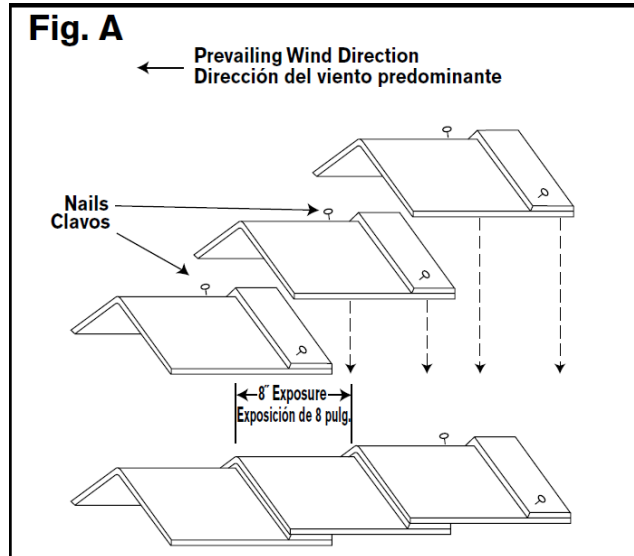


Figure 17: Isometric View, Berkshire and DuraRidge

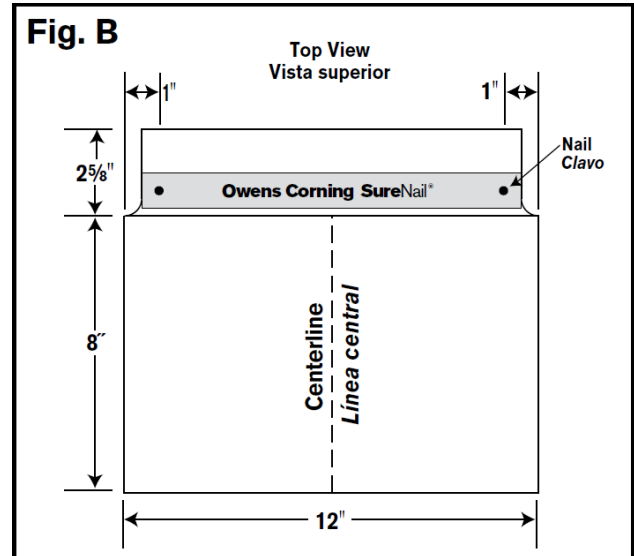


Figure 18: Plan View, Berkshire and DuraRidge

6.4.1.2 WeatherGuard® HP Hip and Ridge Shingles:

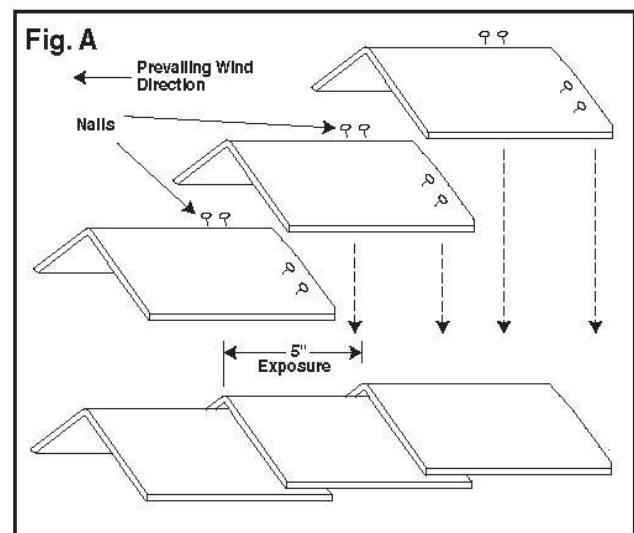


Figure 19: Isometric View, WeatherGuard HP Hip and Ridge

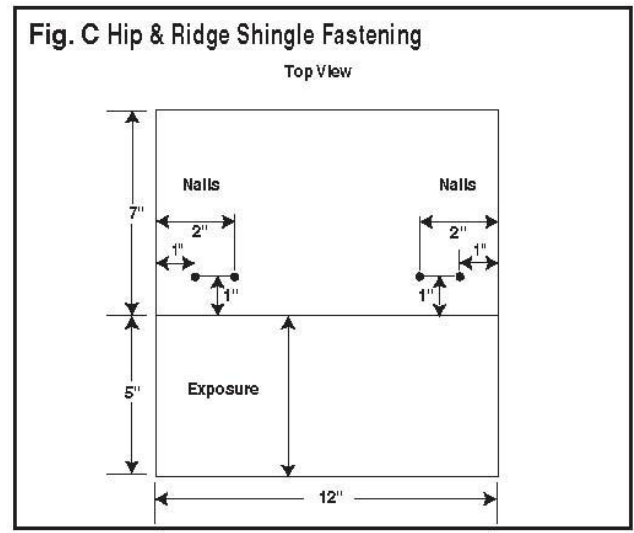


Figure 20: Plan View, WeatherGuard HP Hip and Ridge

6.4.1.3 ProEdge®:

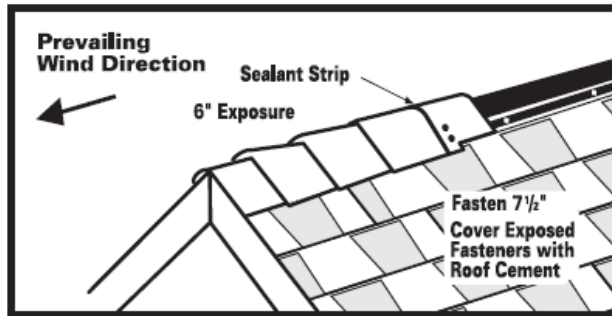


Figure 21: Isometric View, ProEdge

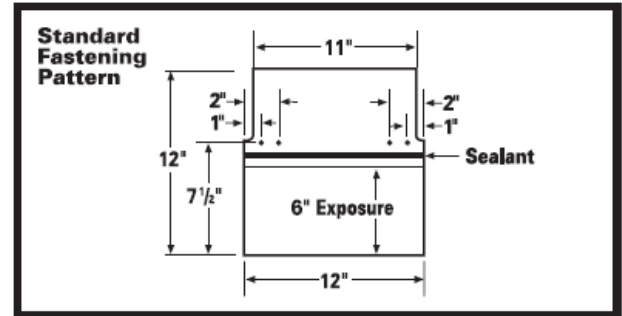


Figure 22: Plan View, ProEdge

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; bwilson@pricmt.com

- END OF EVALUATION REPORT -



NEMO|etc.

Certificate of Authorization #32455

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Oxford, CT 06478

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ENGINEER

EVALUATE

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CERTIFY

EVALUATION REPORT

Owens Corning Roofing and Asphalt, LLC

One Owens Corning Parkway

Toledo, OH 43659

(740) 321-6345

Evaluation Report I40510.02.12-R5

FL15216-R5

Date of Issuance: 02/17/2012

Revision 5: 04/18/2019

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 U20 and ABC Pro Guard 20 Roof Underlayments

LABELING: Labeling shall be in accordance with the requirements of 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. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

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This Evaluation Report consists of pages 1 through 4.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



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ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Compliance Statement: RhinoRoof U20 and ABC Pro Guard 20 Roof Underlayments, as produced by Owens Corning Roofing and Asphalt, LLC, have 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:

Section	Properties	Standard	Year
1507.1.1, R905.1.1 Exception, 1518.4	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
1507.1.1, R905.1.1 Exception	Tear Strength	ASTM D1970	2015
TAS 110	Pull-through resistance	TAS 117(B)	1995

3. REFERENCES:

Entity	Examination	Reference	Date
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
PRI (TST5878)	TAS 117(B); Pull-through	OCF-422-02-01	04/03/2018
ITS (QUA1673)	Quality Control	Service Confirmation	09/30/2017

4. PRODUCT DESCRIPTION:

	Product	Specification	Plant(s)	Description
4.1	RhinoRoof U20	FBC 1507.1.1 & R905.1.1 (Exception)	Qingdao, China	Multilayered polymer woven coated synthetic roof underlayment
4.2	ABC Pro Guard 20	FBC 1507.1.1 & R905.1.1 (Exception)	Qingdao, China	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 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.3 RhinoRoof U20 and ABC Pro Guard 20 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.
- 5.4 **Allowable Roof Covers:**

TABLE 1: ROOF COVER OPTIONS					
Underlayment	Asphalt Shingles	Tile	Metal	Wood Shakes & Shingles	Slate or Simulated Slate
RhinoRoof U20	Yes	No	Yes	Yes	No
ABC Pro Guard 20	Yes	No	Yes	Yes	No

5.5 **Exposure Limitations:**

RhinoRoof U20 and ABC Pro Guard 20 shall not be left exposed for longer than 30-days after installation.

6. **INSTALLATION:**

6.1 RhinoRoof U20 and ABC Pro Guard 20 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 U20 and ABC Pro Guard 20:**

6.3.1 **NON-HVHZ Jurisdictions:**

6.3.1.1 Shall be installed in compliance with the requirements for ASTM D226, Type I or II underlayment in FBC Table 1507.1.1 or R905.1.1 for the type of prepared roof covering to be installed, considering the wider sheet-width for double-layer applications.

6.3.1.2 **Fasteners:**

For exposure up to maximum 24 hours, corrosion resistant fasteners may be 1-inch roofing nails with a 3/8-inch diameter head, 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.

For exposure beyond 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.

Code Reference: The Exception statement in FBC 1507.1.1 and FBC R905.1.1 states: "...except metal cap nails shall be required where the ultimate design wind speed, V_{ult} , equals or exceeds 150 mph."

Owens Corning Roofing and Asphalt, LLC has furnished data to permit the use of 1-inch diameter plastic cap nails in lieu of metal cap nails for these applications, when the RhinoRoof U20 or ABC Pro Guard 20 underlayment is installed beneath mechanically fastened prepared roof covers referenced in FBC Table 1507.1.1 or R905.1.1.

6.3.1.3 **Slopes of 4:12 or greater:**

End (vertical) laps shall be minimum 6-inches and side (horizontal) laps shall be minimum 4-inches. End (vertical) laps shall be offset from course to course not less than 6 feet.

Minimum attachment shall be in accordance with FBC Table 1507.1.1 or R905.1.1. Secure end laps 4-inch o.c. When batten systems are to be installed atop the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens.

6.3.1.4 **Slopes of 2:12 to less than 4:12:**

End (vertical) laps shall be minimum 12-inches and side (horizontal) laps shall be minimum 22-inches. End (vertical) laps shall be offset from course to course not less than 6 feet.

Begin by fastening a 22-inch wide strip along the eaves. Place a full-width sheet over the starter, completely overlapping the starter course. Continue upslope, maintaining minimum 22-inch side (horizontal) laps, resulting in a double-layer application.

Minimum attachment shall be in accordance with FBC Table 1507.1.1 or R905.1.1. Secure end laps 4-inch o.c. When batten systems are to be installed atop the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens.

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.
- 6.3.2.2 Shall be fastened with FBC HVHZ approved corrosion resistant, 1-5/8" diameter tin-caps and 12 gauge 1.25" long annular ring-shank nails (FBC 1517.5) spaced max. 6-inch o.c. at all laps and 12-inch o.c. at three (3) equally spaced rows in the field of the sheet.

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:

Contact the manufacturer or the named QA entity for plants covered under Rule 61G20-3 QA requirements. Refer to Section 4 herein for product & production locations having met codified physical properties specifications.

9. QUALITY ASSURANCE ENTITY:

Intertek Testing Services NA Inc. – ETL/Warnock Hersey – QUA1673; (604) 520-3321;
peter.gildenstern@intertek.com

- END OF EVALUATION REPORT -