

Lake County Fire Stations

Wind Mitigation

Lake County, FL



Asphalt Shingle Roofs Submittal

Fire Station 27: 19212 FL-44, Eustis, FL 32736

Fire Station 52: 306 W Hermosa Street, Lady Lake, FL 32159

Fire Station 54: 6200 Lake Griffin Road, Lady Lake, FL 32159

Fire Station 111: 8805 South Bay Lake Road, Groveland, FL 34736

Architect

Forefront Architecture & Engineering
1230 Oakley Seaver Drive, Suite 100

General Contractor

Scorpio
151 Southhall Ln, Suite 170
Maitland, FL 32751

Roofing Contractor



485 Commerce Way
Longwood, FL 32750

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4. Valley Liner - Rhino GRN
5. Ridge Vent - Owens Corning Ventsure 4-foot Strip
6. Drip Edge - Prefinished Steel TAMCO Eave Drip
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Section 2
Florida
Product
Approval



NEMO|etc.

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

ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Owens Corning Roofing and Asphalt, LLC

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

PEER-OC-004.A.R15

FL10674-R20 (NON-HVHZ)

Date of Issuance: 02/06/2012

Revision 15: 08/23/2024

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. 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 **8th Edition (2023) Florida Building Code sections noted herein.**

DESCRIPTION: Owens Corning Asphalt Roof Shingles (NON-HVHZ)

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**

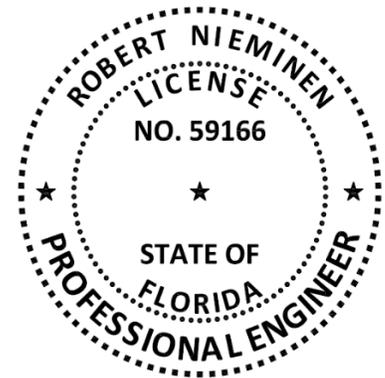
CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO 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 PEER relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire PEER 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 PEER consists of pages 1 through 11.

Prepared by:



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 PEERs 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.
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ROOFING SYSTEMS EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: Owens Corning Asphalt Roof Shingles, as produced by Owens Corning Roofing and Asphalt, LLC, have demonstrated compliance with the following sections of the **8th Edition (2023) Florida Building Code** through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

<u>SECTION</u>	<u>PROPERTY</u>	<u>STANDARD</u>
1507.1.1, R905.1.1	Physical Properties	ASTM D1970
1507.2.5, R905.2.4	Material standard	ASTM D3462
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158

3. REFERENCES:

<u>ENTITY</u>	<u>EXAMINATION</u>	<u>REFERENCE</u>	<u>DATE</u>
Owens Corning	Equivalency	Declaration	08/06/2019
PRI (CER12639)	Various Certifications	Various Certifications	Current
PRI (TST5878)	ASTM D1970	OCF-382-02-01	10/24/2017
PRI (TST5878)	ASTM D3462	1378T0011	08/27/2019
PRI (TST5878)	ASTM D3161	1378T0470A	07/18/2024
PRI (TST5878)	ASTM D3161	1378T0470B	07/18/2024
PRI (TST5878)	ASTM D3161	1378T0471	07/18/2024
UL (TST9628)	ASTM D7158 / D3161	4788364899	12/20/2018
PRI (QUA9110)	Quality Control	Service Confirmation	04/05/2020
PRI (QUA9110)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1A: STARTER STRIPS			
PRODUCT	PLANT(S)	MATERIAL STANDARD	DESCRIPTION
Starter Strip Shingle	Houston, TX, Portland, OR	ASTM D3462	starter strips for asphalt roof shingles
Starter Strip Plus	Medina, OH; Minneapolis, MN; Portland, OR		
SRS TopShield Starter	Medina, OH; Minneapolis, MN; Portland, OR		
Starter Shingle Roll	Brentwood, NH	ASTM D1970	mineral-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen starter

TABLE 1B: ASPHALT SHINGLES			
PRODUCT	PLANT(S)	MATERIAL STANDARD	DESCRIPTION
Supreme®	Refer to PRI Certification	ASTM D3462	fiberglass reinforced 3-tab asphalt roof shingles
Berkshire®	Refer to PRI Certification	ASTM D3462	fiberglass reinforced, 4-tab asphalt roof shingles
Duration® Premium	Refer to PRI Certification	ASTM D3462	fiberglass reinforced, laminated asphalt roof shingles
Duration® Premium COOL	Compton, CA		
Oakridge®	Refer to PRI Certification	ASTM D3462	fiberglass reinforced, laminated asphalt roof shingles
TruDefinition® Duration	Refer to PRI Certification		
TruDefinition® Duration® Designer Color Collection	Refer to PRI Certification		
TruDefinition® Duration FLEX®	Refer to PRI Certification		
TruDefinition® Duration STORM®	Refer to PRI Certification		
TruDefinition® Oakridge®	Refer to PRI Certification		

TABLE 1C: HIP AND RIDGE SHINGLES			
PRODUCT	PLANT(S)	MATERIAL STANDARD	DESCRIPTION
Berkshire® Hip and Ridge Shingles with Sealant	Refer to PRI Certification	ASTM D3462	fiberglass reinforced, hip and ridge asphalt roof shingles
DuraRidge® Hip and Ridge Shingles with Sealant	Refer to PRI Certification		
ImpactRidge® Hip & Ridge Shingles	Refer to PRI Certification		
ProEdge®	Refer to PRI Certification		

5. LIMITATIONS:

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- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER 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 PEER 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

5.5.1 Starter Strips:

TABLE 2A: WIND CLASSIFICATIONS, STARTER STRIPS	
PRODUCT	FBC TABLE 1507.2.7.1 OR R905.2.6.1
Starter Strip Shingle, Starter Strip Plus or SRS TopShield Starter	ASTM D3161, Class F

5.5.2 Asphalt Shingles:

TABLE 2B: WIND CLASSIFICATIONS, ASPHALT SHINGLES	
PRODUCT	FBC TABLE 1507.2.7.1 OR R905.2.6.1
Supreme®, Berkshire®, Duration® Premium, Duration® Premium COOL, TruDefinition® Duration®, TruDefinition® Duration® Designer Color Collection, TruDefinition® Duration FLEX®, TruDefinition® Duration STORM®, Oakridge® or TruDefinition® Oakridge®	ASTM D3161(F) and ASTM D7158(H)

5.5.2.1 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.

5.5.3 Hip and Ridge Shingle:

TABLE 2C: WIND CLASSIFICATIONS, HIP AND RIDGE SHINGLES	
PRODUCT	FBC TABLE 1507.2.7.1 OR R905.2.6.1
Berkshire® Hip and Ridge Shingles with Sealant, DuraRidge® Hip and Ridge Shingles with Sealant, ImpactRidge® Hip & Ridge Shingles or ProEdge®	ASTM D3161, Class F

5.5.4 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 produced by a Product Manufacturer other than the report holder on [Page 1](#) of this PEER.

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 **Owens Corning Roofing and Asphalt, LLC** and shall hold current [Florida Product Approval](#), or be Locally Approved in accordance with [Rule 61G20-3](#) (FBC Sections 1507.2.3 or R905.2.3).
- 6.1.3 Fasteners shall be in accordance with manufacturer’s published requirements, but not less than **FBC 1507.2.6 or R905.2.5**. Staples are not permitted.
- 6.1.4 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 STARTER SHINGLES:

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

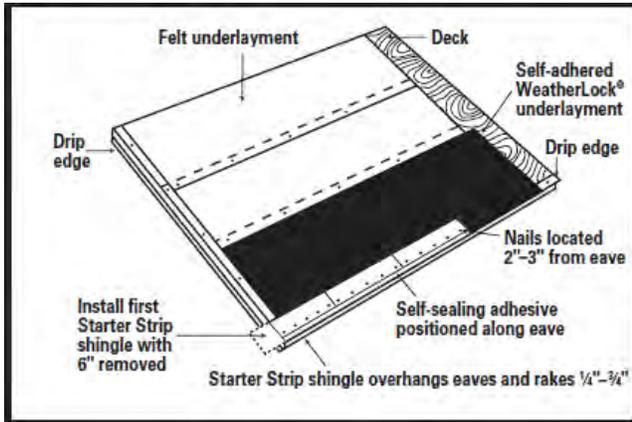


Figure 1: Minimum Nailing, Starter Strip

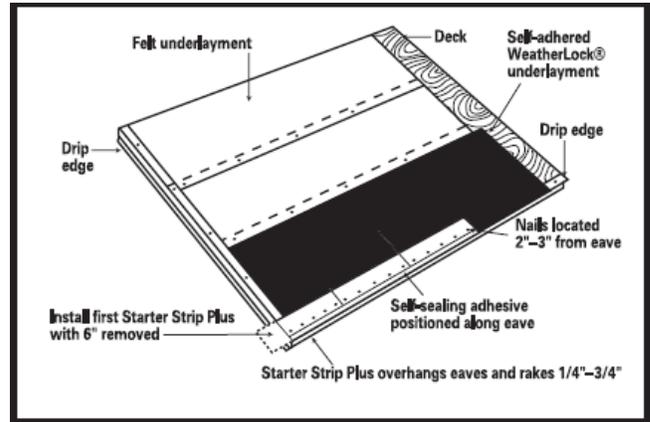


Figure 2: Minimum Nailing, Starter Strip Plus

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

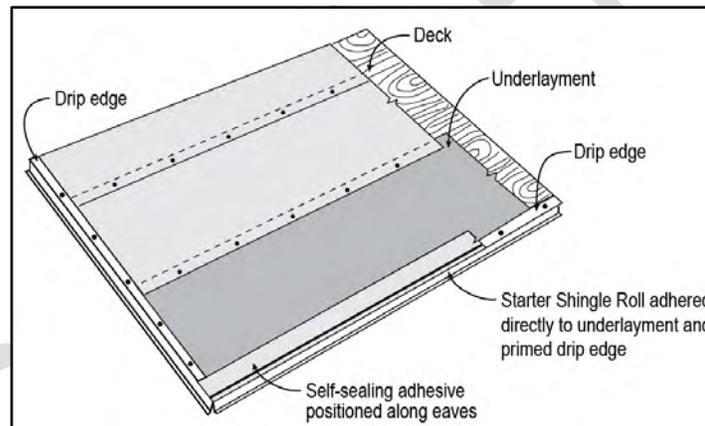


Figure 3: Starter Shingle Roll

6.3 ASPHALT SHINGLES:

6.3.1 Installation of asphalt shingles shall comply with the **Owens Corning Roofing and Asphalt, LLC** 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.

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

6.3.2 Supreme:

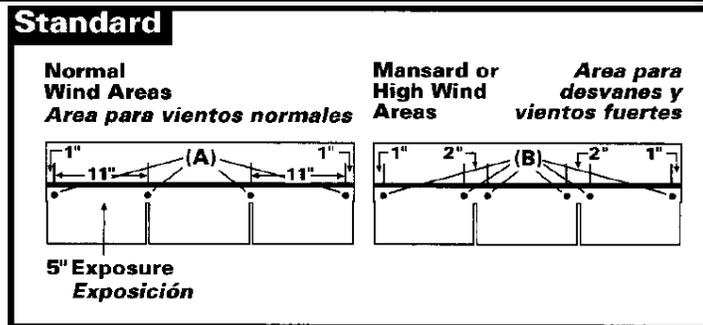


Figure 4: Minimum Nailing, Supreme (Standard Size)

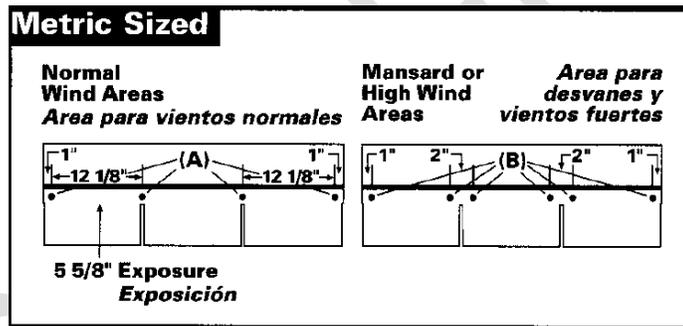


Figure 5: Minimum Nailing, Supreme (Metric Size)

6.3.3 Berkshire®:

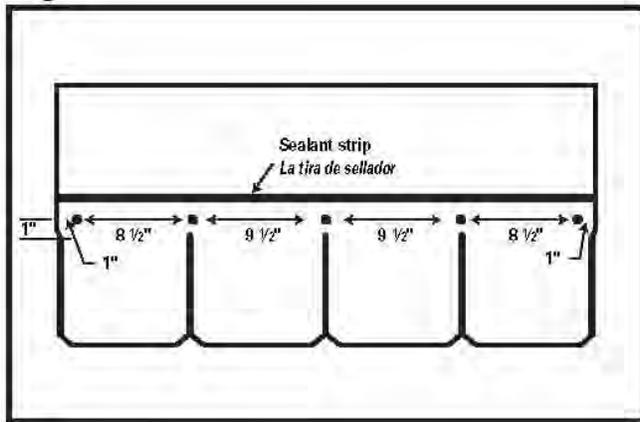


Figure 6: 5-Nail Pattern, Berkshire

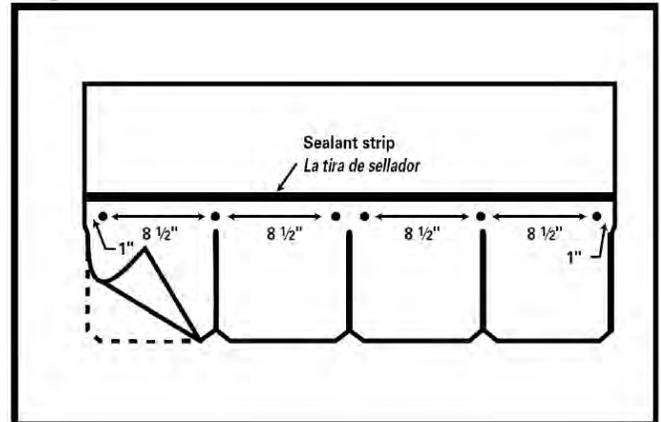


Figure 7: 6-Nail Pattern, Berkshire

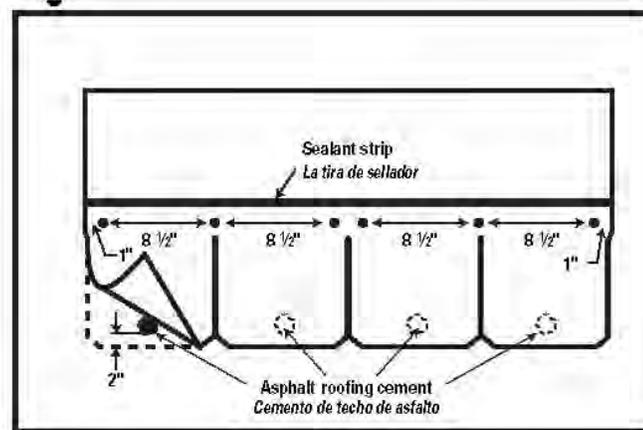


Figure 8: Mansard or Steep Slope Pattern, Berkshire

6.3.4 Duration® Premium, Duration® Premium COOL, TruDefinition® Duration, TruDefinition® Duration® Designer Color Collection TruDefinition® Duration FLEX® and TruDefinition® Duration STORM®:

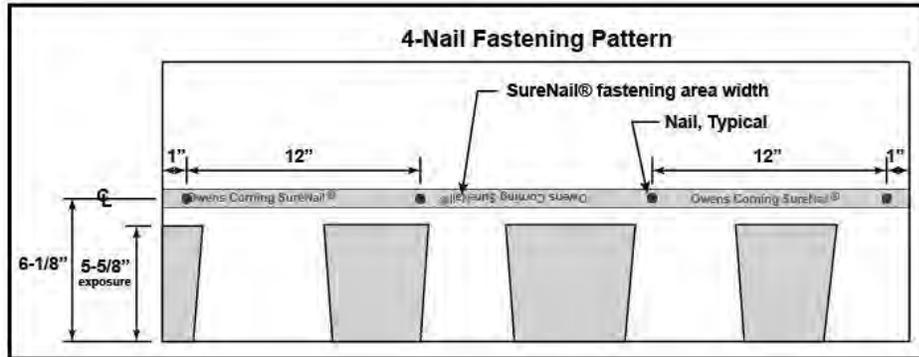


Figure 9: Standard 4-Nail Pattern, Duration

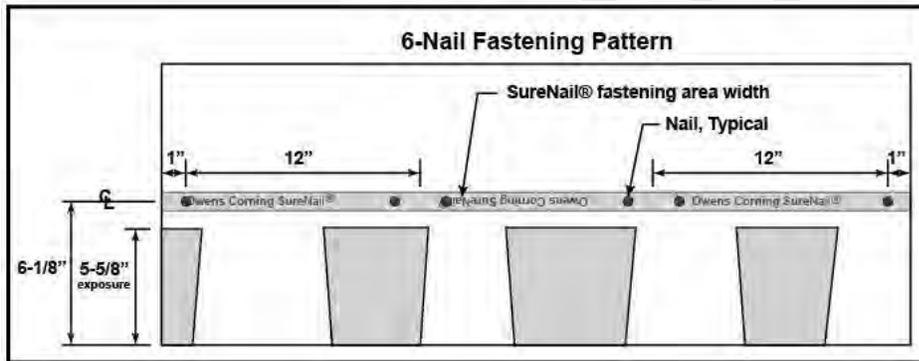


Figure 10: 6-Nail Pattern, Duration

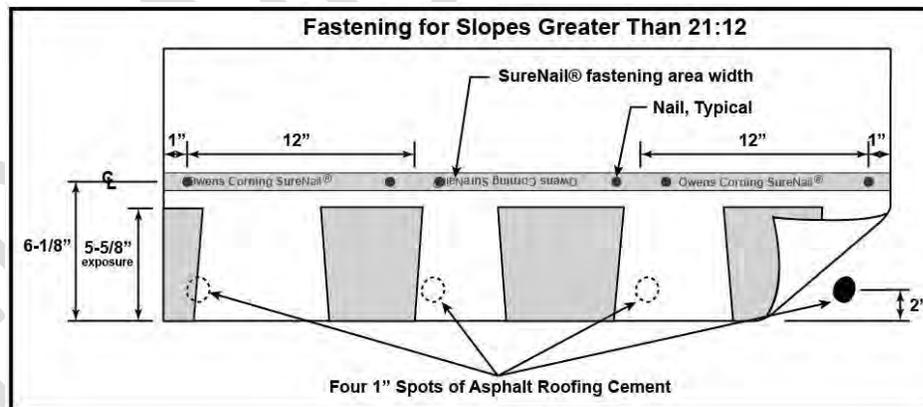


Figure 11: Mansard or Steep Slope Pattern, Duration

6.3.5 **Oakridge®** and TruDefinition® Oakridge®:

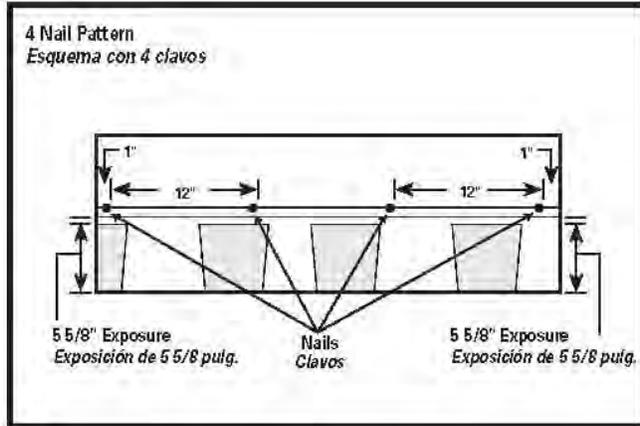


Figure 12: Standard 4-Nail Pattern, Oakridge

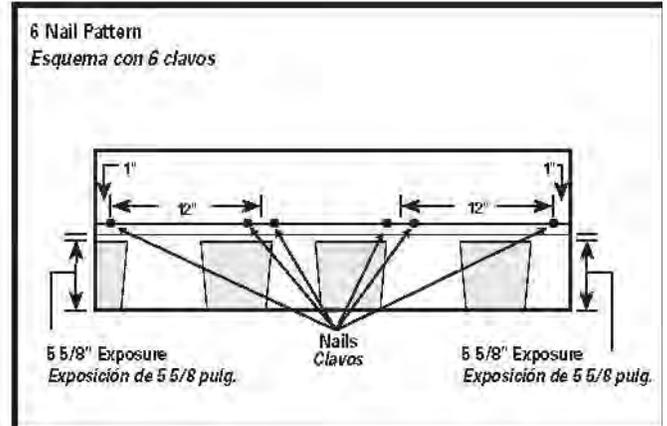


Figure 13: 6-Nail Pattern, Oakridge

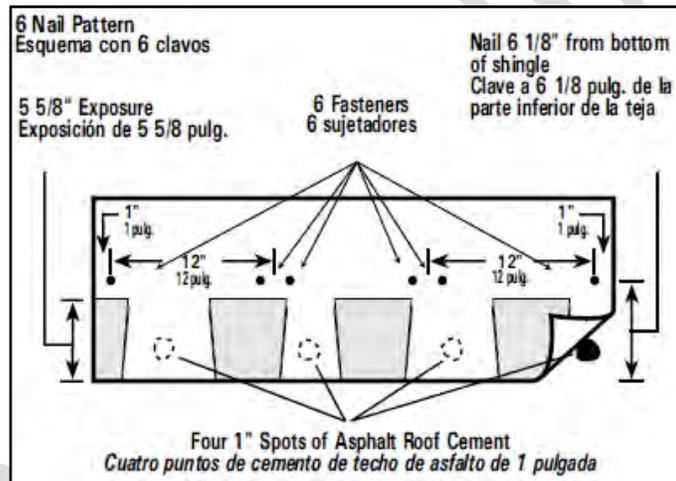


Figure 14: Mansard or Steep-Slope Pattern, Oakridge

6.4 HIP AND RIDGE SHINGLES:

6.4.1 Installation of asphalt shingles shall comply with the **Owens Corning Roofing and Asphalt, LLC** current published instructions.

- Berkshire® Hip and Ridge Shingles *with Sealant*, DuraRidge® Hip and Ridge Shingles *with Sealant*, ImpactRidge and ProEdge require minimum two (2) nails per shingle.

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

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

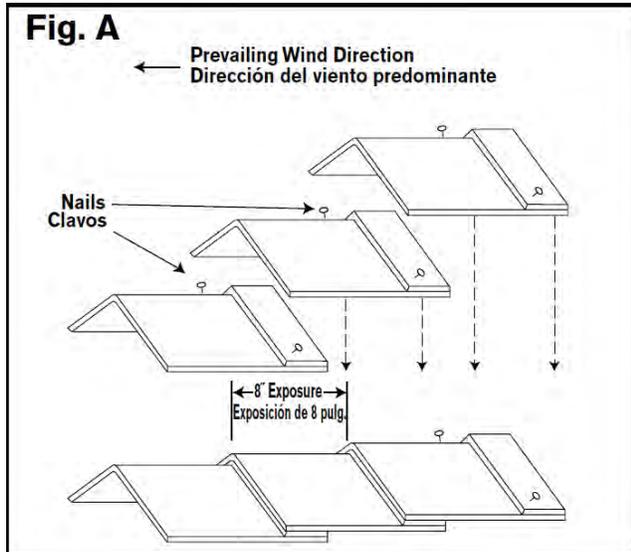


Figure 15: Isometric View, Berkshire and DuraRidge

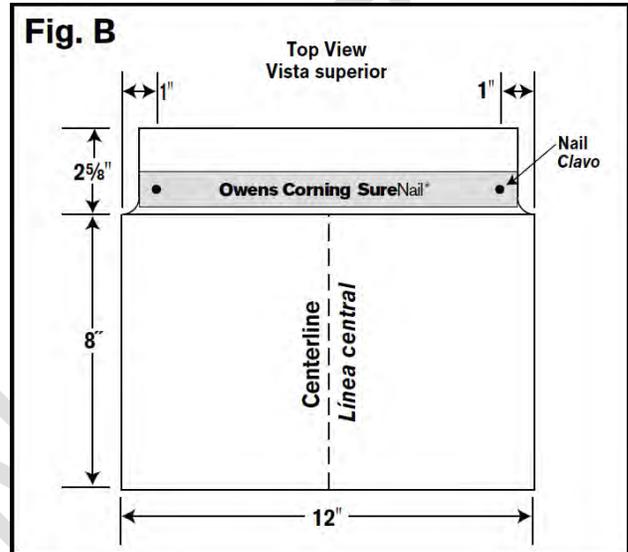


Figure 16: Plan View, Berkshire and DuraRidge

6.4.3 ImpactRidge® Hip & Ridge Shingles and ProEdge®:

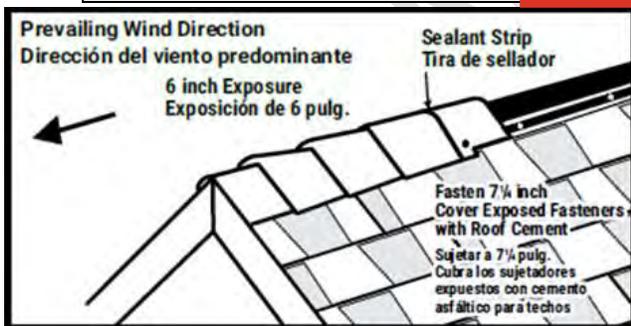


Figure 17: Isometric View, ImpactRidge and ProEdge

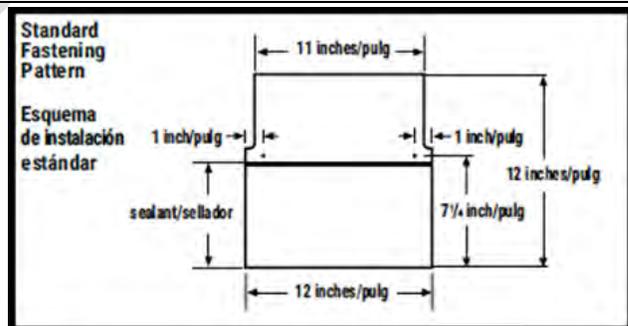


Figure 18: Plan View, ImpactRidge and ProEdge

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 PEER -

FBC NON-HVHZ



NEMO|etc.

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

ENGINEER

TEST

CONSULT

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(740) 321-6345

PEER-OC-003.A.R15

FL15216-R14 (NON-HVHZ)

Date of Issuance: 02/17/2012

Revision 15: 12/18/2024

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. 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 **8th Edition (2023) Florida Building Code** [sections noted herein](#).

DESCRIPTION: RhinoRoof U1, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments (NON-HVHZ)

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

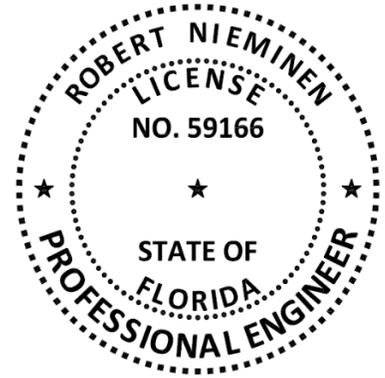
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ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
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 8th Edition (2023) Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTIES	STANDARD
1507.1.1, R905.1.1	Material standard	ASTM D8257

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
PRI (TST5878)	ASTM D8257-20	1378T0138	02/25/2021
PRI (TST5878)	ASTM D8257-20	1378T0141	05/18/2021
PRI (TST5878)	ASTM D8257-20	1378T0273	10/25/2022
PRI (QUA9110)	Quality Control	PRI Validation Program	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	SPECIFICATION	PLANT(S)	DESCRIPTION
RhinoRoof U10	ASTM D8257 ¹	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
RhinoRoof U20	ASTM D8257 ¹	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
ABC Pro Guard 20	ASTM D8257 ¹	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
SRS TopShield TS20	ASTM D8257 ¹	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment

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¹ Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D8257-20, should be established as to slip resistance.

5.5 **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.

5.6 **Allowable roof covers:**

TABLE 2: ROOF COVER OPTIONS					
<i>FBC NON-HVHZ:</i>	1507.2	1507.3	1507.4 & 1507.5	1507.7	1507.8 & 1507.9
UNDERLAYMENT	ASPHALT SHINGLES	ROOF TILE	METAL	SLATE OR SLATE-TYPE SHINGLES	WOOD SHINGLES OR SHAKES
RhinoRoof U10	Yes	No	Yes	No	No
RhinoRoof U20	Yes	No	Yes	No	No
ABC Pro Guard 20	Yes	No	Yes	No	No
SRS TopShield TS20	Yes	No	Yes	No	No

5.7 **Exposure Limitations:**

TABLE 3: EXPOSURE LIMITATIONS		
UNDERLAYMENT	PREPARED ROOF COVER INSTALLATION TYPE	MAXIMUM EXPOSURE (DAYS)
RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 or SRS TopShield TS20	Mechanically attached	90

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 of Use](#) 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 Underlayment Assemblies with Prescriptive Minimum Attachment for use in NON-TILE applications:

6.3.1 **CODE REFERENCE: 1507.1.1.1 or R905.1.1.1, Option 2:** Self-adhering strips to deck-joints followed by underlayment mechanically attached to deck

DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction								
SECONDARY WATER BARRIER:	Min. 3 ¼-inch wide strips of Titanium PSU30 or Titanium FR (FBC FPA FL11602) or other FBC Approved self-adhering joint-strip product over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1507.1.1.1(2) or R905.1.1.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.								
UNDERLAYMENT:	RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 or SRS TopShield TS20 in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck								
FASTENERS:	Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Note: Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph. <table border="1"> <thead> <tr> <th>Cap Type</th> <th>Minimum thickness</th> </tr> </thead> <tbody> <tr> <td>Metal cap</td> <td>32 ga. sheet metal</td> </tr> <tr> <td>Power-driven metal cap</td> <td>0.010-inch</td> </tr> <tr> <td>Plastic cap</td> <td>0.035-inch (outside edge thickness)</td> </tr> </tbody> </table>	Cap Type	Minimum thickness	Metal cap	32 ga. sheet metal	Power-driven metal cap	0.010-inch	Plastic cap	0.035-inch (outside edge thickness)
Cap Type	Minimum thickness								
Metal cap	32 ga. sheet metal								
Power-driven metal cap	0.010-inch								
Plastic cap	0.035-inch (outside edge thickness)								
FASTENING:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1								
SURFACING:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.								

6.3.2	CODE REFERENCE: 1507.1.1.1 or R905.1.1.1, Option 3: Two-layer underlayment mechanically fastened to deck						
DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction						
UNDERLAYMENT:	Two (2) layers of RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 or SRS TopShield TS20 in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3).						
FASTENERS:	Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Note: Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph. <table border="1"> <thead> <tr> <th>Cap Type</th> <th>Minimum thickness</th> </tr> </thead> <tbody> <tr> <td>Metal cap</td> <td>32 ga. sheet metal</td> </tr> <tr> <td>Plastic cap</td> <td>0.035-inch (outside edge thickness)</td> </tr> </tbody> </table>	Cap Type	Minimum thickness	Metal cap	32 ga. sheet metal	Plastic cap	0.035-inch (outside edge thickness)
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Metal cap	32 ga. sheet metal						
Plastic cap	0.035-inch (outside edge thickness)						
FASTENING:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3).						
SURFACING:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.						

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; chris.moskal@pri-group.com

- END OF PEER -



NEMO|etc.

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

ENGINEER

EVALUATE

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Owens Corning Roofing and Asphalt, LLC

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

PEER-OC-008.A.R2

FL32344-R2 (NON-HVHZ)

Date of Issuance: 06/04/2020

Revision 2: 10/23/2023

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. 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 **8th Edition (2023) Florida Building Code** [sections noted herein](#).

DESCRIPTION: RhinoRoof® GRN (NON-HVHZ)

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

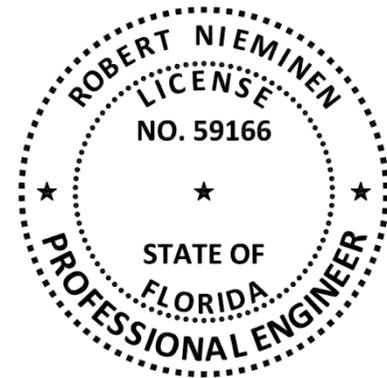
CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO 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 PEER relative to updated Code requirements with each Code Cycle.

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

INSPECTION: Upon request, a copy of this entire PEER 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 PEER consists of pages 1 through 4.

Prepared by:



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 PEERs 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 PEER, 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
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: RhinoRoof® GRN, as produced by Owens Corning Roofing and Asphalt, LLC, has demonstrated compliance with the following sections of the 8th Edition (2023) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
1507.1.1, 1507.2.9.2 / R905.1.1, R905.2.8.2	Material standard	ASTM D1970

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
PRI (TST5878)	ASTM D1970	OCF-293-02-03	12/20/2017
PRI (TST5878)	ASTM D1970	OCF-253-02-02	12/21/2017
PRI (QUA9110)	Quality Control	Service Confirmation	05/05/2020
PRI (QUA9110)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	MATERIAL STANDARD	PLANT(S)	DESCRIPTION
RhinoRoof® GRN	ASTM D1970 (Table 1) ⁱ	Brentwood, NN Houston, TX	Granule-surfaced, self-adhering, 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 PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER 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 PEER 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 **RhinoRoof GRN** 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.

5.6 **Allowable Roof Covers:**

TABLE 2: ROOF COVER OPTIONS						
<u>FBC NON-HVHZ:</u>	1507.2	1507.3		1507.4 & 1507.5	1507.7	1507.8 & 1507.9
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL PANELS AND SHINGLES	SLATE OR SLATE-TYPE SHINGLES	WOOD SHINGLES AND SHAKES
		MECHANICAL ATTACH	ADHESIVE-SET			
RhinoRoof® GRN	Yes	No	No	No	Yes	Yes ⁱⁱ

5.7 **Allowable Substrates:**

TABLE 3 ALLOWABLE SUBSTRATE OPTIONS FOR ADHERED UNDERLAYMENTS				
UNDERLAYMENT	APPLICATION	SUBSTRATES (DESIGNED TO MEET WIND LOADS FOR PROJECT)		
		TYPE	PRIMER	MATERIAL(S)
RhinoRoof® GRN	self-adhering	Deck / sheathing	None	Plywood

5.8 **Attachment Limitations:**

For use under mechanically attached NON-TILE prepared roof coverings, attachment shall be in accordance with the manufacturer’s installation instructions, but – for mechanically attached underlayments or base sheets - not less than **FBC 1507.1.1** or **R905.1.1**.

5.9 **Exposure Limitations:**

TABLE 4: EXPOSURE LIMITATIONS		
UNDERLAYMENT	PREPARED ROOF COVER INSTALLATION TYPE	MAXIMUM EXPOSURE (DAYS)
RhinoRoof® GRN	Mechanically attached	30

6. INSTALLATION:

6.1 **RhinoRoof GRN** shall be installed in accordance with **Owens Corning Roofing and Asphalt, LLC** published installation requirements subject to the [Limitations of Use](#) 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, and prime the substrate (if applicable).

6.3 RhinoRoof® GRN:

6.3.1 **Non-Tile Applications:**

Shall be installed in compliance with requirements for an approved self-adhering underlayment (ASTM D1970) in **FBC 1507.1.1.1** or **FBC Residential R905.1.1.1** for the type of prepared roof covering to be installed, and the manufacturer’s installation instructions.

When installed over a mechanically attached base sheet of FBC Approved ASTM D226 Type II felt or ASTM D4869, Type III or IV felt, the base sheet shall be fastened in accordance with **FBC 1507.1.1** or **R905.1.1**.

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 PEER -

ⁱ Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D1970-17, should be established as to slip resistance.

ⁱⁱ For wood shakes and shingles, product is used as min. 3 ¼-inch wide joint-strips per FBC 1507.1.1.1(2) / FBC R905.1.1.1(2) or installed in full-coverage atop ASTM D226, Type II felt or ASTM D4869 Type III or IV felt mechanically attached in accordance with FBC Table 1507.1.1.1 or FBC Residential Table R905.1.1.1.

FBC NON-HVHZ

word how to remove drafty

Evaluation Report MMI Off Ridge Vent Ridge Vent Assembly

Manufacturer:
Millennium Metals, Inc.
10200 Eastport Road
Jacksonville, FL 32218
(877) 358-7663
for
Florida Product Approval

FL 19567.1 R2

Florida Building Code 7th Edition (2020)

Per Rule 61G20-3

Method: 2 - B

Category: Roofing

**Sub - Category: Roofing Accessories that are an Integral
Part of the Roof System**

Product: **MMI Off Ridge Vent**
Material: Steel or Aluminum
Support: Wood Deck

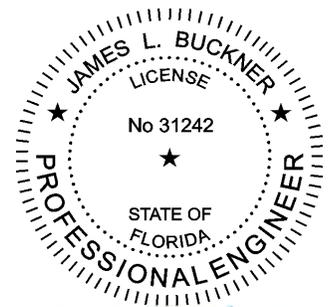
This item has been electronically signed and sealed by James L. Buckner, P.E., on this date using a Digital Signature. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Prepared by:

James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Report No. 20-224-MMI-ORV-ER
Date: 10 / 29 / 2020

Contents:

Evaluation Report Pages 1 – 7



A handwritten signature in blue ink, appearing to read "James L. Buckner".

2020.10.29 12:08:40 -04'00'

Manufacturer:	Millennium Metals, Inc.
Product Name:	MMI Off Ridge Vent
Product Category:	Roofing
Product Sub-Category	Roofing Accessories that are an Integral part of the Roofing System
Compliance Method:	State Product Approval Rule 61G20-3.005 (2) (b)
Product/System Description:	MMI Off Ridge Vent Steel or aluminum off ridge vent for shingle roofs mechanically attached to plywood deck.
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly structural components: <ol style="list-style-type: none">1. Off Ridge Vent2. Fasteners3. Roof Cement
Support:	Type: Wood Deck (Design of support and its attachment to support framing is outside the scope of this evaluation.) Description: <ul style="list-style-type: none">• 15/32 (min.) or greater plywood,• or Wood plank (min. specific gravity of 0.42)
Slope:	2 : 12 or Greater
Performance:	Wind Uplift Structural Resistance * Design Uplift Pressure: - 70 PSF * Allowable design pressure for allowable stress design (ASD) with a margin of safety of 2 to 1.

Performance Standards: The following test protocols were performed to demonstrate compliance with the intent of the code as this product is not addressed specifically in the code.

- **ASTM E330-02** – *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

Code Compliance: The product described herein has demonstrated compliance with Florida Building Code 7th Edition (2020), Section 1708.2.

Evaluation Report Scope: This product evaluation is limited to compliance with the structural requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001.

Limitations and Conditions of Use:

- Scope of “Limitations and Conditions of Use” for this evaluation:
This evaluation report for “Optional Statewide Approval” contains technical documentation, specifications and installation method(s) which include “Limitations and Conditions of Use” throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under “Optional Statewide Approval”.
- Option for application outside “Limitations and Conditions of Use”
Rule 61G20-3.005(1)(e) allows engineering analysis for “project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code”. Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.
- Refer to applicable building code section for ventilation requirements.
- Design of support system is outside the scope of this report.
- Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation.
- This evaluation report does not evaluate the use of this product for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)

Quality Assurance: The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Keystone Certifications, Inc.** (FBC Organization #: QUA 1824).

**Attachment
Components/Materials
(by Manufacturer):**

Ridge Vent:

Material Type 1:

Thickness:

Yield Strength:

Corrosion Resistance:

MMI Off Ridge Vent

Steel

26 gauge (min.)

40 ksi min.

Aluminum Zinc Coated Steel per ASTM A792 AZ 50, or
Galvanized Steel per ASTM A653 G-90, or
Pre-painted Steel per ASTM A755 or
Per FBC Section 1507.4.3

Material Type 2:

Thickness:

Alloy Type:

Corrosion Resistance:

Aluminum

0.025" (min.)

3105-H14

In compliance with FBC Section 1507.4.3:

- ASTM B209

Nominal Dimensions:

Width:

Height:

Lengths:

24"

4-1/2"

2', 4', 6', 8' and 10'

Fastener(s):

Base Fastener:

Purpose:

Type:

Size:

Penetration Through:

Edge Distance:

Corrosion Resistance:

Standard:

Attaches Ridge Vent Base Flange to Deck

Annular Ring Shank Roofing Nails

11 gauge (× length to meet min. penetration through deck)

3/16" min. through wood deck

Nominal 1-1/2" or 3/4" min. from edge of flange

Per FBC Section 1506.5

Per ASTM F1667

Alternate Fastener:

Purpose:

Type:

Size:

Penetration Through:

Edge Distance:

Corrosion Resistance:

Standard:

Attaches Ridge Vent Base Flange to Deck

Hex-Head Wood Screw

#10 (× length to meet min. penetration through deck)

3/16" min. through wood deck

Nominal 1-1/2" or 3/4" min. from edge of flange

Per FBC Section 1506.6 and 1507.4.4

Per ANSI/ASME B18.6.4

Roof Cement:

Type:

Application Size:

Standard:

Asbestos-free asphalt based roof cement w/ SBS rubber

1/4" thick minimum

Per ASTM D3019 Type III and ASTM D3409

Installation:

Structural Installation Method:

(Refer to drawings on Pages 6-7 of this report.)

- Apply roof cement to the underside, back and side flanges of the ridge vent. Cement should be a 1/4" thick and extend 2" onto roof underlayment. (Install cement in compliance with manufacturer's installation guidelines.)
- Position vent flange beneath loosened shingles and align with deck opening.

Attach vent top and bottom flanges to deck with nails or screws spaced **8" o.c.** maximum and Nominal 4-1/2" from each end or 3/4" min. from edge of flange.

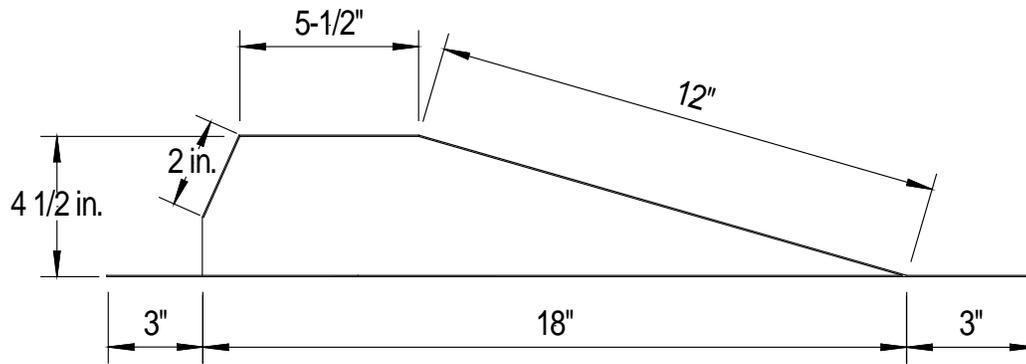
- Attach vent side flanges to deck with Two nails or screws equally spaced and Nominal 1-1/2" from flange edge, or 3/4" min. from edge of flange.
- Minimum fastener penetration thru bottom of support, 3/16".
- Refer to manufacturer's installation instructions as a supplemental guide for attachment.

Referenced Data:

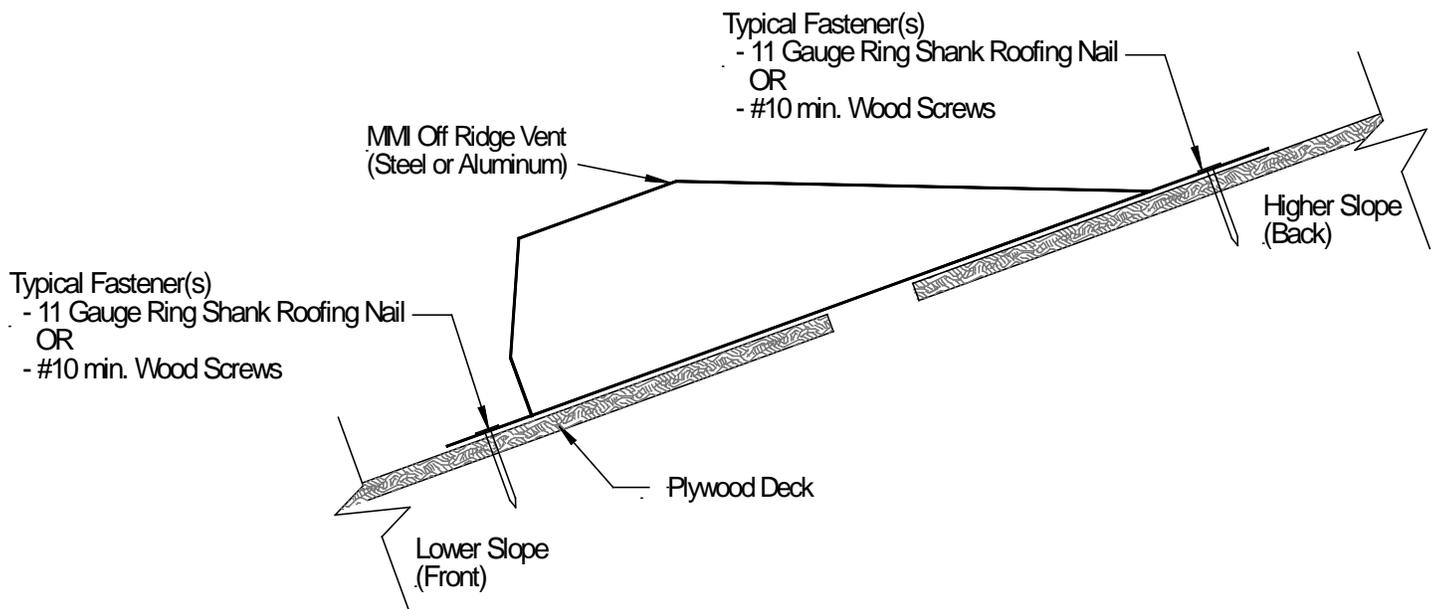
1. ASTM E330-02 Uniform Static Air Pressure Difference Test
Architectural Testing, Inc.(FBC Organization #TST ID: 1527)
Report #: F3167.01-450-44, Report Date: 12 / 15 / 15
2. Quality Assurance
By Keystone Certifications, Inc. (QUA ID: 1824)
Millennium Metals Licensee # 423
3. Certification of Independence
By James L. Buckner, P.E. @ CBUG Engineering
(FBC Organization # ANE 1916)

Installation Method Millennium Metals, Inc. MMI Steel or Aluminum Off Ridge Vent Attached to Wood Deck

Profile Drawings

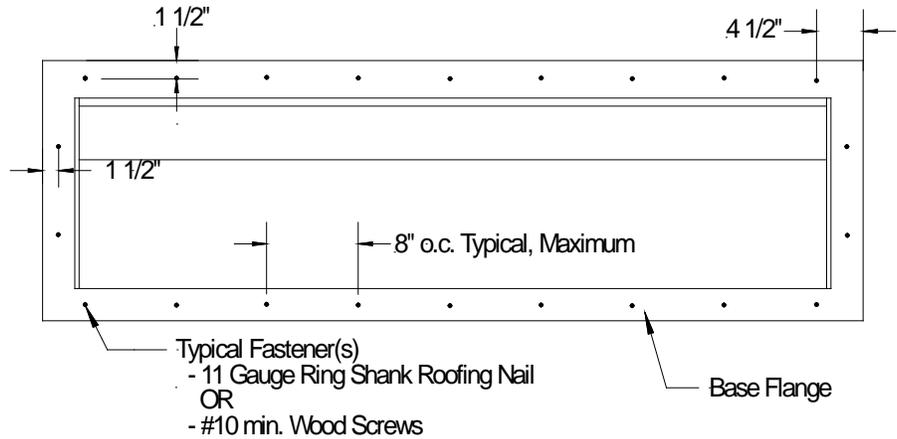


Side View (Not To Scale)



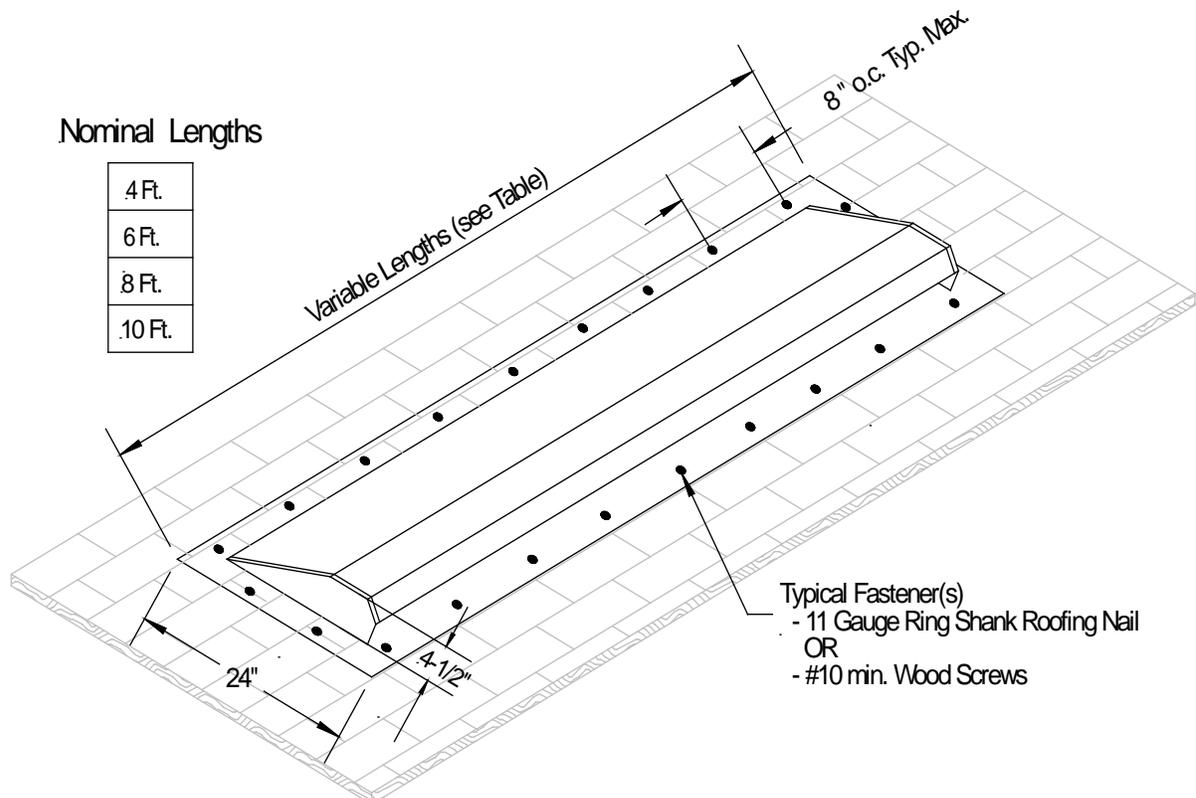
Typical Cross Section View (Not To Scale)

Installation Method Millennium Metals, Inc. MMI Steel or Aluminum Off Ridge Vent Attached to Wood Deck



Fasteners Nominal 1-1/2" or 3/4" min. from edge of Flange

**Top Plan View (Not To Scale)
(Typical Fastening Pattern)**



Typical Ridge Vent Assembly
Isometric View *(Not To Scale)*

Section 3
Product
Data
Sheets



OAKRIDGE[®]

Shingles | Tejas



Brownwood¹



MORE THAN JUST A ROOF® IT'S PROTECTION FOR YOUR HOME.

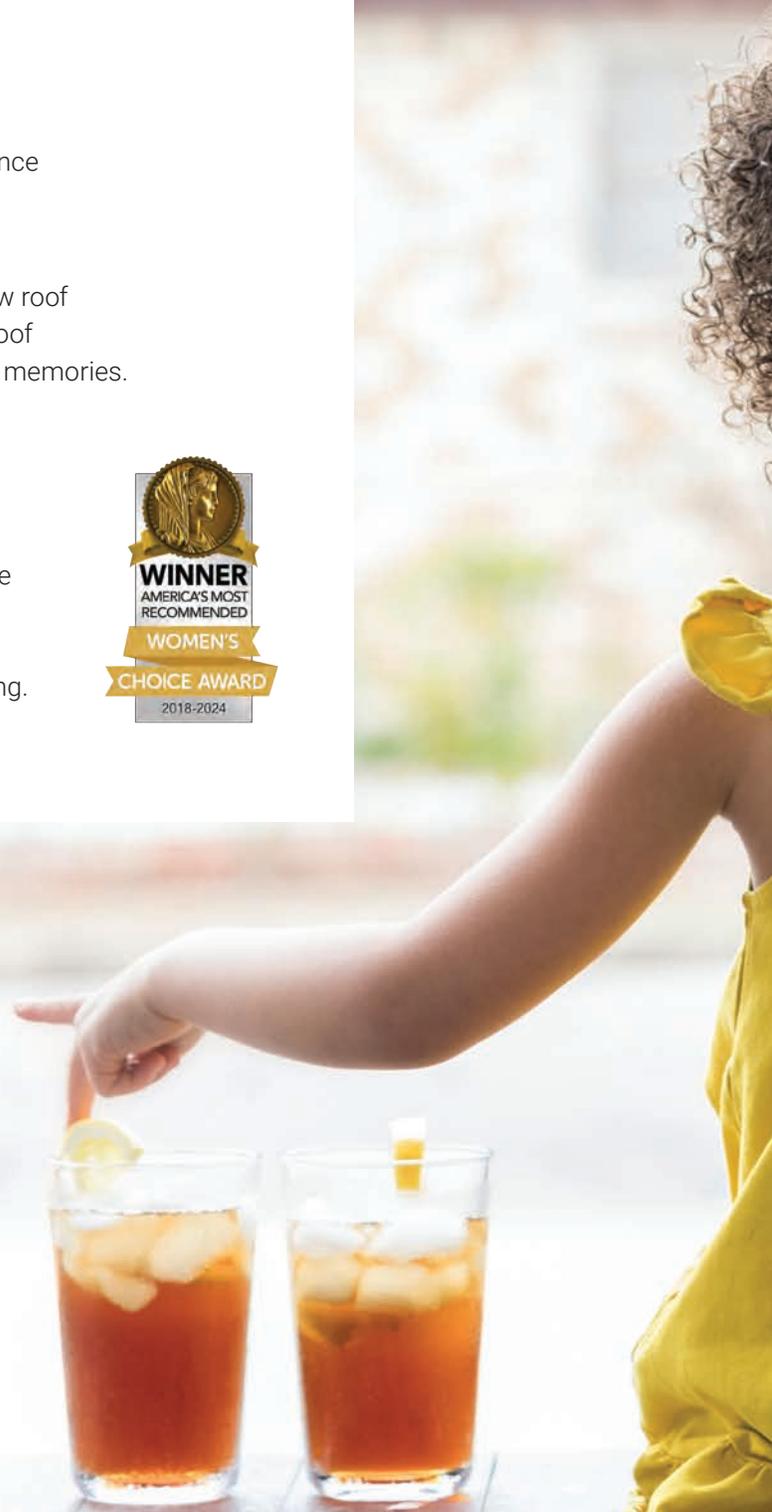
Your home is the center of your world—where your memories are made. And we see it as our job to make the world a better place. So, Owens Corning is relentless about reimagining and creating materials that help protect your biggest investment, your home.

When you choose Owens Corning roofing products, you get products and systems that deliver a material difference—a difference that can be seen in the curb appeal of your roof and experienced through premium performance, protecting your home and family.

Our commitment to quality offers you peace of mind that your new roof will stand the test of time. At Owens Corning, we know that your roof does more than just cover your house, it helps protect your future memories.

PROUD TO BE CALLED THE BEST

For a decade, the Women's Choice Award has identified the best brands and companies, empowering women (and men!) to choose objectively evaluated products and services for themselves and their families. Owens Corning Roofing is proud to be named the Women's Choice Award as America's Most Recommended Roofing.





Desert Tan¹



HIGH PERFORMANCE WITH BEAUTY TO MATCH

Oakridge® laminated shingles provide premium protection and impressive curb appeal. A full double layer in the nailing zone gives Oakridge® Shingles greater integrity and better holding power compared to shingles with single-layer nail zones. And the warm, inviting look in popular colors provides a step-up from traditional three-tab shingles.

Oakridge® Shingles are The Right Choice® for long-lasting performance and striking beauty.

Oakridge® Shingles offer:

- Limited Lifetime Warranty*[†] (for as long as you own your home)
- 110/130 MPH Wind Resistance Limited Warranty*^{††}
- StreakGuard® Protection with a 25-year Algae Resistance Limited Warranty^{3/§}



Don't let black streaks lower the value or curb appeal of your home.

Owens Corning blends specialized copper-lined granules, developed by 3M, a leading producer of roofing granules, into our colorful shingles. This helps resist blue-green algae growth.

OAKRIDGE®

Shingles | Tejas



Antique Silver¹



Beachwood Sand¹



Brownwood¹



Desert Tan¹



Driftwood¹



Estate Gray¹



Onyx Black¹

COLOR DISCLAIMER

As color experts, we know getting the shingle color right is a big part of any roofing purchase. Due to printing color variations, in addition to viewing shingle literature, we suggest you request an actual shingle sample to see how it will appear on your home and with your home's exterior elements in various natural lighting conditions. Lastly, we recommend you verify your color choice by seeing it installed on an actual home; your roofing contractor or supplier can provide a sample and may be able to direct you to a local installation.

DESCARGO DE RESPONSABILIDAD SOBRE LOS COLORES

En tanto que especialistas en color, sabemos que obtener el color de teja perfecto es una parte importante en toda compra de techos. Debido a las variaciones en los colores impresos, además de mirar folletos de tejas, le sugerimos que solicite una muestra de la teja para ver como se verá en su hogar y con los elementos externos de la vivienda bajo distintas condiciones de luz natural. Finalmente, le recomendamos que para verificar su elección de colores, vea cómo lucen las tejas ya instaladas en una vivienda; su contratista de techos o su proveedor le pueden dar una muestra e incluso indicarle dónde ver un techo ya instalado.



Driftwood*

THE FINISHING TOUCH

OWENS CORNING® HIP & RIDGE SHINGLES

Owens Corning® Hip & Ridge Shingles are uniquely color matched to Oakridge® Shingles. The multiple color blends are only available from Owens Corning Roofing and offer a finished look for the roof.

EL TOQUE FINAL

TEJAS DE LIMATESA Y CUMBRERA DE OWENS CORNING®

Las tejas de limatesa y cumbrera de Owens Corning® se ofrecen en una exclusiva gama de colores para combinar con las tejas Oakridge®. Esta gran variedad de combinaciones de colores es una exclusividad de Owens Corning Roofing para lograr techos con un acabado único.





PREMIUM PROTECTION

**OAKRIDGE®
SHINGLES**

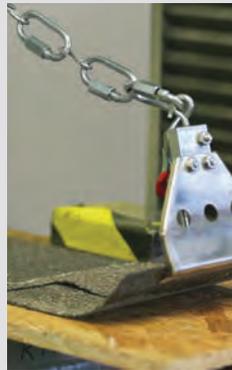
with a full common bond nail zone for Double Layer Protection



**THE PROOF IS IN
THE PERFORMANCE**

Proven performance is what truly sets Owens Corning® architectural shingles above the rest. We brought our Oakridge® Shingles into the lab to test their performance against the two top competing wide, single-layer nailing zone shingles in three major tests. And in each test, the full double layer protection of Oakridge® Shingles outperformed the competition where it matters most—the nailing zone.

Oakridge Shingles vs. top two competitors†



**NAIL PULL-THROUGH
RESISTANCE**

Up to

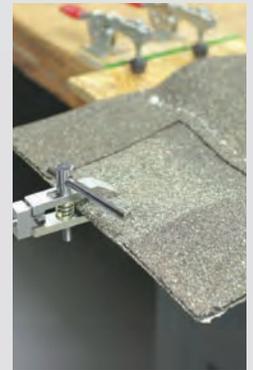
**2X
BETTER**



**NAIL BLOW-THROUGH
RESISTANCE**

Up to

**7X
BETTER**



**DELAMINATION
RESISTANCE**

Up to

**1.5X
BETTER**



REGISTER YOUR WARRANTY

Registering your Owens Corning® warranty ensures it's easily referenced should you ever need to access it. The process is easy—just have your installation date, shingle type, shingle color and number of squares ready. Then go online to www.owenscorning.com/roofingstandardwarranty or call 1-800-ROOFING (1-800-766-3464) to finish the process.



**SCAN TO REGISTER
YOUR WARRANTY**

Escanee para registrar
su garantía



REGISTRE SU GARANTÍA

Al registrar su garantía de Owens Corning® la podrá consultar rápidamente si fuera necesario acceder a ella.

El proceso es simple: tenga a mano la fecha de instalación, el tipo y color de tejas y la cantidad de cuadrados. Luego, visite owenscorning.com/roofingstandardwarranty o llame al 1-800-ROOFING (1-800-766-3464) para completar el proceso.



TOTAL PROTECTION SIMPLIFIED®

It takes more than just shingles to protect a home. It takes an integrated system of components and layers designed to perform in three critical areas. The Owens Corning® Total Protection Roofing System® gives you the assurance that all of your Owens Corning roofing components are working together to help increase the performance of your roof.

PROTECCIÓN TOTAL SIMPLIFICADA®

Se necesita más que simplemente tejas para proteger su vivienda. Se necesita un sistema integral de componentes y capas diseñadas para desempeñarse en tres áreas críticas. El Total Protection Roofing System® de Owens Corning® le garantiza que todos sus componentes para cubiertas de Owens Corning funcionan en conjunto para mejorar el desempeño de su techo.



Helps create a waterproof barrier

Ayuda a crear una barrera impermeable



Helps protect against nature's elements

Protege contra los elementos climáticos



For balanced attic ventilation

Para una ventilación equilibrada del ático

Hip & Ridge shingles
Tejas de limatesa y cumbre



Laminate shingles
Tejas laminadas



Starter shingles
Tejas de arranque



Exhaust vents
Salidas de aire



Intake vents®
Entradas de aire®

Self-adhered ice & water barrier
Barrera autoadhesiva contra el hielo y el agua



Synthetic underlayment
Membrana impermeabilizante sintética



+ COMFORT. CONFORT.

Add comfort and energy performance
Más confort y desempeño energético

PINK® Fiberglas™ blown-in attic insulation
Aislamiento para áticos PINK® Fiberglas™ aplicado por impulsión

® For intake ventilation, use approved Owens Corning® Vent Sure® InFlow ventilation or soffit ventilation. Do not use both intake ventilation options in one roofing application. See install instructions for more details.

® Para la ventilación de entrada, utilice la ventilación aprobada por Owens Corning® Vent Sure® InFlow o ventilación de sofito. No utilice ambas opciones de ventilación de entrada en una misma aplicación para techos. Consulte las instrucciones de instalación para obtener más detalles.

Product Attributes

Warranty Length*†

Limited Lifetime
(for as long as you own your home)

Wind Resistance Limited Warranty*††

110/130 MPH

Algae Resistance Limited Warranty*‡§

25 Years

TRU PROtection® Non-Prorated Limited Warranty* Period

10 Years



Características del producto

Período de garantía*†

Garantía limitada de por vida
(mientras sea propietario de la vivienda)

Garantía limitada de resistencia al viento*††

177-209 km/h (110-130 mph)

Garantía limitada de resistencia a las algas*‡§

25 años

Período no prorrateado de garantía limitada* TRU PROtection®

10 años



Product Specifications

Size	13¼" x 39⅝"
Application Exposure	5⅝"
Shingles per Bundle	Not less than 20
Average Shingle Count per 3 Bundles	64
Average Coverage per 3 Bundles	98.4 sq. ft.

Especificaciones del producto

Tamaño	33.65 cm x 100 cm (13¼pulg x 39⅝pulg)
Exposición de aplicación	14.3 cm (5⅝pulg)
Tejas por paquete	20 tejas como mínimo
Cantidad promedio de tejas por 3 paquetes	64
Cobertura promedio por 3 paquetes	9.14 m ² (98.4 pies ²)

Applicable Standards and Codes

ASTM D3462

ASTM D228

ASTM D3018 (Type 1)

ICC-ES AC438[#]

ASTM D3161 (Class F Wind Resistance)

ASTM D7158 (Class H Wind Resistance)

ASTM E108/UL 790 (Class A Fire Resistance)

PRI ER 1378E01

Florida Product Approval

Miami-Dade County Product Approval²

Normas y códigos pertinentes

ASTM D3462

ASTM D228

ASTM D3018 (Tipo 1)

ICC-ES AC438[#]

ASTM D3161 (Resistencia al viento, Clase F)

ASTM D7158 (Resistencia al viento Clase H)

ASTM E108/UL 790 (Resistencia al fuego Clase A)

PRI ER 1378E01

Aprobación del producto en el estado de Florida

Producto aprobado por el condado de Miami-Dade²

* See actual warranty for complete details, limitations and requirements.

† 40-Year Limited Warranty on commercial projects.

†† 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.

‡ Owens Corning testing against competing products with wide, single-layer nailing zones when following manufacturers' installation instructions and nailing in the middle of the allowable nailing zone.

International Code Council Evaluation Services Acceptance Criteria for Alternative Asphalt Shingles.

^ Excludes non-Owens Corning® roofing products such as flashing, fasteners, pipe boots and wood decking.

1 See Color Disclaimer information on page 6 for additional details.

2 Applies for all areas that recognize a Miami-Dade Notice of Acceptance (NOA).

3 Shingles are algae resistant to control the growth of algae and discoloration.

§ Installation must include use of an Owens Corning® Hip & Ridge product. See actual warranty for details.

* Consulte la garantía para obtener una lista completa de detalles, limitaciones y requisitos.

† Garantía limitada de 40 años para proyectos comerciales.

†† La velocidad de 177 km/h (110 mph) es estándar con la aplicación de 4 clavos. La velocidad de 209 km/h (130 mph) solo se aplica cuando se usan 6 clavos y tejas de hilada inicial de Owens Corning® a lo largo de aleros y cornisas de acuerdo con las instrucciones de instalación.

‡ Ensayos comparativos de Owens Corning con productos de la competencia con zonas de clavado ancho de una sola capa cuando se siguen las instrucciones de instalación del fabricante y se clava en el medio de la zona de clavado permitida.

Criterios de aceptación de los servicios de evaluación del Consejo Internacional de Códigos para tejas asfálticas alternativas.

^ Se excluyen productos para techos no fabricados por Owens Corning®, como tapajuntas, sujetadores, bases de tubos y estructuras de soporte de madera.

1 Para obtener más información, consulte el Descargo de responsabilidad sobre los colores, en la página 6.

2 Aplicable a todas las zonas que reconocen el Aviso de aceptación (NOA, Notice of Acceptance) del condado de Miami Dade.

3 Las tejas son resistentes a las algas para controlar su desarrollo y la decoloración.

§ La instalación debe incluir el uso de un producto para limatesa y cumbre de Owens Corning®. Para obtener más información, consulte la garantía.



OWENS CORNING ROOFING AND ASPHALT, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

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www.owenscorning.com

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(Jacksonville)

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(Jacksonville)

RHINOROOF® U20

SYNTHETIC UNDERLAYMENT

U20

THE UNDERLAYMENT OF CHOICE.
FROM THE BRAND ROOFERS RELY ON.



FOR USE UNDER ASPHALT SHINGLES, RESIDENTIAL METAL, COMPOSITE SHINGLES & CEDAR SHAKE



RHINOROOF® U20
SYNTHETIC UNDERLAYMENT

**NOW EVEN
BETTER**

LOOK & FEEL

TEAR STRENGTH

LONGER EXPOSURE

IMPROVED WALKABILITY



CONTRACTOR-TRUSTED

TO HELP KEEP CREWS SAFE AND HOMES PROTECTED.

Being a roofer means long, exhausting days spent in unforgiving conditions, from a range of temperatures. So we're constantly looking for ways to make your job safer, easier and faster. The original RhinoRoof® U20 won over roofing contractors everywhere with lightweight roof deck protection that's water-resistant and stronger than felt.

Our latest formulation works even harder to help keep crews safe and the roof deck dry.



STRONGER FORMULATION

Improved tear resistance for even better protection against inclement weather and foot traffic. **UP TO 2X STRONGER THAN COMPETITIVE UNDERLAYMENTS.***



EXCELLENT DECK ADHESION

Proprietary back coating holds tight to the deck, plus our trusted fiber grip topside for security in every step.



90-DAY UV RESISTANCE

Stands up to the effects of UV rays for up to 3 months of worry-free exposure.



20-YEAR WARRANTY

Comes with a 20-year limited warranty**

START STRONG™

Install right from the start with the brands you know and trust. Our growing portfolio of high performance self-adhered ice and water barrier and synthetic underlayment products give you the best options for every roofing job. From asphalt to metal, you can rest assured knowing the roof deck is completely protected.

RhinoRoof® U20 Synthetic is the underlayment of choice for almost any residential roof. Offering protection that's stronger than felt for superior wind resistance and durability through heavy foot traffic and adverse weather conditions. Its engineered, high-strength design is ideal for use under asphalt shingles, composite shingles, metal roofing and cedar shake.****

For Eave to Peak Protection™ combine RhinoRoof® U20 underlayment with RhinoRoof® Granulated self-adhered ice and water barrier under asphalt shingles for a second line of defense against moisture and damage.

RHINOROOF® U20 TECHNICAL DATA

SPECIFICATION

LENGTH PER ROLL:	286' (87 M)
WIDTH PER ROLL:	42" (1.1 M)
WEIGHT PER ROLL:	23.5 LBS (10.6 KG)
ROLL SIZE:	10 SQ (93 M ²)
ROLLS PER PALLET:	67
PALLET WEIGHT:	1626 LBS (738 KG)

TECHNICAL DATA

TEST & STANDARD TEST METHOD

Meets or exceeds the following test standards

Breaking Strength	ASTM D146
Pliability	ASTM D146
Loss of Heating	ASTM D146
Unrolling	ASTM D226
Liquid Water Transmission	ASTM D4869
Tear Resistance	ASTM D4533
Linear Dimensional Change	ASTM D1204
Pliability	CSA A 123.3
Moisture Vapor Permeance	ASTM E96
Burst Strength	ASTM D751
Class A Fire**	ASTM E108

MEETS CODES

- Meets ASTM D226 Types I & II and D4869 Type IV
- Meets ASTM D8257
- Meets CAN/CSA A123.3
- Class A Fire - ASTM E108 (as part of a system)**
- Texas Department of Insurance
- Florida Product Approval

* Test data based on average of samples tested in accordance with ASTM 4533.

** See actual warranty for complete details, limitations and requirements.

*** ASTM E108 / UL 790 Class A Fire Resistant when installed under asphalt shingles.

**** This product is not intended for use under tile.



Install right from the start with
RHINOROOF® U20
SYNTHETIC UNDERLAYMENT

DUAL LOGO PRINTING AVAILABLE



INSTALLATION INSTRUCTIONS

RhinoRoof® U20 is a water and vapor barrier and therefore must be installed above a properly ventilated space(s). Follow ALL building codes applicable to your geographical region and structure type as it is considered a vapor barrier.

Always follow safe roofing practices and OSHA safety requirements. Always wear and use fall protection devices when working on roofs. Use caution when walking or standing on RhinoRoof® U20 underlayment in wet or dusty conditions that may reduce traction. Failure to use proper safety equipment and footwear can result in serious injury.

DECK PREP: RhinoRoof® U20 should be applied to a properly prepared dry deck that is smooth, clean and free from any depressions, projections, or protruding nails. Acceptable roof deck materials are minimum 3/8 inch plywood, minimum 7/16 inch OSB, or minimum 6 inch roof deck boards. Roof decks should be structurally sound and meet or exceed minimum requirements of the roof deck manufacturer and local building codes.

USE: RhinoRoof® U20 must be covered by primary roofing within 90 days of application. U20 is designed for use under asphalt or composite shingles, metal in residential applications, and cedar shakes that have been primed.

APPLICATION: Slopes from 4:12 and higher: RhinoRoof® U20 is to be laid out horizontally (parallel) to the eave with the printed side up. Horizontal laps should be 4 inches and vertical laps should be 6 inches and anchored approximately 1 inch in from the edge. End laps in a succeeding course should be located at least 6 feet from laps in the preceding course.

Slopes 2:12 to less than 4:12: Cover the deck with two layers of RhinoRoof® U20. Begin by fastening a 22 inch wide strip of RhinoRoof® U20 along the eaves with the minimal fasteners need to hold the course in place. Place a full-width sheet over the 22 inch course and overlap each successive course by 50% plus 1 inch. Additional fasteners may be required in high-wind regions per local building codes. Vertical lap requirements are the same as 4:12 and higher slopes. Slopes less than 2:12: RhinoRoof® U20 is not recommended for use.

FASTENERS: Provided there is no rain or high winds, RhinoRoof® U20 can be anchored with staples, cap staples or corrosive resistant 3/8 inch head X 1 inch leg roofing nails (ring shank preferred, smooth leg acceptable), when covered with primary roofing on the same day.

If RhinoRoof® U20 will not be covered on the same day and up to 90 days, then product must be attached to the roof deck using a minimum 1 inch diameter plastic or metal cap roof nail (ring shank preferred, smooth leg acceptable). Miami-Dade approved tin tags/metal caps are also acceptable, and it is recommended for best performance to use with the rough edge facing up. For extended exposure, it is required that RhinoRoof® U20 be anchored in all locations printed on the facer. Consult local building codes for fastener type and spacing requirements.

For extended exposure conditions where driving rain or strong winds are expected, it is recommended to take additional precautions such as doubling the lap widths. Alternatively or in addition to, a compatible sealant could be used between the laps or a peel and stick tape could be applied to the overlaps.

ANCHORING: All anchoring nails must be flush, 90 degrees to the roof deck, and tight with the underlayment surface and the structural roof deck. Where seams and joints require sealant or adhesive, use a low solvent plastic roofing cement meeting ASTM D-4586 Type 1, or Federal Spec SS-153 Type 1 such as Karnak, Henry, DAP, MB, Geocel or equivalent. Acceptable alternatives are butyl rubber, urethane, and EDPM based caulk or tape sealant.



RhinoRoof® U20 Synthetic Underlayment
Charleston, SC • eavetopeak.com
email: answers@owenscorning.com
Toll Free: 800.567.9727

RHINOROOF® GRANULATED

WATERPROOF | FLEXIBLE | WALKABLE



RHINOROOF® GRANULATED

The self-adhered layer in a roof deck protection system provides a waterproof barrier for vulnerable areas on a roof. Whether the building is faced with wind-driven rain or the potential for ice damming, having a waterproof barrier will help provide protection for a long-lasting roof.

RhinoRoof® Granulated self-adhered underlayment provides that essential waterproof barrier as a second line of defense against water mitigation. RhinoRoof® Granulated combined with a synthetic underlayment, such as RhinoRoof® U20 creates an underlayment system to protect the roof deck from eave to peak. RhinoRoof® Granulated is formulated with the latest in asphalt technology that brings significant performance values:

- **Excellent Adhesion** – Tested at 40° F and 75° F adhesion to the deck exceeds ASTM D1970 standards*
- **Flexible Installation** – Even at cold temperatures
- **Lap Adhesion** – Constructed with a taped selvage edge for 3 inches of edge lap protection
- **Walkable Surface** – Provides a slip-resistant surface with minimal loose granules for excellent traction and safe installation.
- **Easy to Install** – Split backer sheet for easy application and positioning on the roof deck
- **Extended UV Exposure** – Can be left exposed up to 30 days

RHINOROOF® GRANULATED

SPECIFICATION

LENGTH PER ROLL:	65' (19.8 M)
WIDTH PER ROLL:	36" (91 CM)
WEIGHT PER ROLL:	52 lbs (23.6 kg)
ROLL SIZE:	1.95 SQ (18 M ²)
ROLLS PER PALLET:	30
PALLET WEIGHT:	1,615 LBS (732 KG)

TECHNICAL DATA

TEST & STANDARD TYPICAL VALUE

Meets or exceeds the following test standards

Nail Sealability	ASTM D1970
Permeability	ASTM E96
Tensile Strength	ASTM D1970
Low Temp Flexibility	ASTM D1970
Tear Resistance	ASTM D1970
Adhesion to Plywood	ASTM D1970
Waterproofing Integrity	
after Low Temperature Flex	ASTM D1970
Waterproofing Integrity of Lap	ASTM D1970
Florida Product Approved	
Miami-Dade Product Approval	

* Product tested as manufactured. Test data is based on average taken over several production runs and should not be considered or interpreted as minimum or maximum values. Values are typical data as manufactured and not limiting specifications. All values = 10%.
See www.eavetopeak.com/rhinorooft for complete coverage and restrictions.

INSTALLATION INSTRUCTIONS

RhinoRoof® Granulated is designed as a secondary water barrier for use on steep slope roofs (2:12 or greater) under; Asphalt Shingles, Composite Shingles, Slate, and Wood Shakes and Shingles

STORAGE:

1. RhinoRoof® Granulated should be stored at room temperature, upright in the original cardboard packaging in a dry properly ventilated area. Keep product sheltered from the elements.
2. Only rolls destined for same-day use should be removed from their storage area.
3. For best results store in temperatures between 40°F (4.4°C) and 90°F (32°C). If room temperature storage is not available and product is at a temperature of 40°F (4.4°C) or less, move the product to a warm area prior to application. If product has been stored in temperatures above 90°F (32°C) it may become difficult to remove the release backing. If this situation should occur, move product into a shaded area until the product is cool. Once cooled, the release backing can be easily removed.

DECK PREPARATION:

1. Protrusions from the deck area must be removed and decks shall have no voids, damaged or unsupported areas. Deck surface should be free of debris and moisture.
2. RhinoRoof® Granulated must be applied directly to minimum 3/8 inch-thick plywood, 7/16 inch-thick OSB decking, or minimum 6 inch-wide deck boards (gaps no greater than 1/4 inch) on roofs with a slope of 2:12 or greater.
3. For re-roofing projects replace any water damaged sheathing and sweep roof deck thoroughly removing dust, dirt and loose nails. Do not install over old roof covering.

APPLICATION:

1. For best results RhinoRoof® Granulated must be installed over a clean, smooth and dry roof deck.
2. For cold weather applications 40°F (4.4°C) or below, a primer should be used and the laps blind nailed (see note 5 under application). The primer should be solvent or water based and meet ASTM D41 for asphalt based self-adhering membranes.
3. For steep slope applications (5:12 or greater), high wind areas, or when installing at temperatures greater than 100°F (38°C) it is recommended to blind nail the selvage edge area as per note 5 below under application.

4. RhinoRoof® Granulated is to be laid out horizontally (parallel) to the eaves with the printed side up, using 3 inch horizontal laps and 6 inch vertical laps with the lower edge of the RhinoRoof® Granulated flush with the outside of the drip edge. The lower edge of the underlayment is the edge that does not have a film selvage edge. End laps should be offset a minimum of 6 feet on adjacent courses.
5. On slopes greater than 5:12 after installation of each piece, overlap the 3 inch film selvage edge and, if necessary, secure with nails installed in the selvage edge spaced 12 inches on center. Blind nail with minimum 3/8 inch head roofing nails or sufficient length to penetrate the sheathing. Nails should be placed at 12 inches on center in the film selvage area. Consult local building codes for fastener requirements.
6. Always work from the low point to the high point of the roof. Apply the membrane in valleys before the membrane is applied to the eaves.
7. Cut the membrane into 15 foot to 20 foot lengths. Peel back 1-2 feet of release liner, align the membrane, and continue to peel the release liner from the membrane. Hand press or walk on, then follow with a 40 lb. or heavier weighted roller to smooth and secure the membrane. Hand rolling over the selvage edge and directly above the selvage edge using a minimum 4 inch-wide, 10 lb. roller is recommended. If a roller is not available or not considered safe, walk on all laps, and as much of the field area as possible to push the adhesive into the pours of the roof deck and overlap.
8. RhinoRoof® Granulated should be applied over the metal drip edge at the eaves unless otherwise specified by local codes. Along rakes, apply RhinoRoof® Granulated underlayment first, and install drip edge over the underlayment. Do not fold RhinoRoof® Granulated over the roof edge unless the edge is subsequently covered over by a drip edge or other flashing material.
9. In areas where ice damming can occur, install RhinoRoof® Granulated from the eave up the roof to a point not less than 24 inches inside the exterior wall, measured horizontally. Consult your local building code for specific requirements.
10. For valley applications, peel the release liner; center the sheet over the valley and hand press in place from the center of the valley outward. Note: It is very important RhinoRoof® Granulated stay in contact with the roof deck into and out of the valley area. RhinoRoof® Granulated should never be suspended or bridge a valley. It is recommended to follow up with a weighted roller or by walking on the surface. Give special attention to ALL perimeter edge areas.
11. If fasteners are removed leaving holes in the membrane or other penetrations are accidentally produced, they must also be patched.
12. Do not install fasteners through membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.
13. For geographies with high elevation, high wind or wind driven rain it is recommended to cover the entire roof deck with RhinoRoof® Granulated.

PRECAUTIONS:

1. RhinoRoof® Granulated is a moisture and vapor barrier and therefore must be installed above a properly ventilated space(s). Follow ALL building codes applicable to your geographical region and structure type.
2. Follow the recommendations of the roof covering manufacturer, Asphalt Roofing Manufacturer's Association (for asphalt shingles).
3. RhinoRoof® Granulated is not designed for indefinite outdoor exposure. Final roofing should be installed within 30 days of underlayment installation.
4. Depending on roof pitch and surface conditions, loading cleats (battens) may be required to support roofing materials placed on the roof. Remember to seal the fastener holes that secured the cleats/battens after they have been removed.
5. Protect completed roof areas to avoid damage during roof installation and material transportation by installing protective boardwalks to enable passage of people, equipment and products.
6. Be careful not to load too much material on the roof deck in one area. Disburse the weight over structural supports where possible

CAUTION - READ GOOD SAFETY PRACTICES BELOW

As with any roofing product, always follow safe roofing codes & practices (OSHA) and always use and wear fall protection devices when working on roofs. Release liners are slippery and should be removed from work area immediately after application. Use caution when walking or standing on RhinoRoof® Granulated as slip resistance may vary with surface conditions, weather, footwear and roof pitch. Failure to use proper safety gear and footwear can result in serious injury.



RhinoRoof® Granulated

Charleston, SC

eavetopeak.com • email: answers@owenscorning.com

Toll Free: 800.567.9727



PROEDGE®

Hip & Ridge Shingles

Tejas para limatesa y cumbrera



**DEFEND.
DEFENDER.**

Helps protect against
nature's elements

Protege contra los
elementos climáticos



TOTAL PROTECTION. TOTAL CONFIDENCE.®
PROTECCIÓN TOTAL. CONFIANZA TOTAL.™



**SEAL.
SELLAR.**



**DEFEND.
DEFENDER.**



**BREATHE.
RESPIRAR.**



ProEdge® Hip & Ridge Shingles

PERFECT FINISH



Top off any roof with ProEdge® Hip & Ridge Shingles

A protective finishing touch that stands out while standing the test of time, ProEdge® Hip & Ridge Shingles are designed to shield your home while enhancing its curb appeal with a pronounced shadow line and well-defined ridge. They are the perfect finish for a beautiful exterior, color coordinated to match Owens Corning® Duration® or Oakridge® laminate shingles. Because your roof deserves the same protection and attention to detail as the rest of your home.

Tejas ProEdge® para lima y cumbre

ACABADO PERFECTO

Completa cualquier techo con las tejas ProEdge® para lima y cumbre

Las tejas ProEdge® para lima y cumbre, un toque final protector que destaca y resiste el paso del tiempo, están diseñadas para proteger tu hogar y, al mismo tiempo, mejorar su atractivo exterior con una línea de sombra pronunciada y una cumbre bien definida. Son el acabado perfecto para un exterior hermoso, con un color coordinado a juego con las tejas laminadas Duration® u Oakridge® de Owens Corning®. Porque tu techo merece la misma protección y atención al detalle que el resto de tu hogar.



ENHANCED CURB APPEAL

Distinctive shadow line creates a polished, uniform look that enhances your home's exterior style.

ATRATIVO EXTERIOR MEJORADO

La línea de sombra distintiva crea un aspecto refinado y uniforme que realza el estilo exterior de tu hogar.



DURABLE PERFORMANCE

Specially designed to bend, giving the ridge added wind protection at one of the most vulnerable areas of the roof. Rated Class 3 for Impact Resistance⁶ and may qualify for a homeowner insurance discount.⁷

DESEMPEÑO DURADERO

Especialmente diseñado para doblarse y proporcionarle a la cumbre protección adicional contra el viento en una de las zonas más vulnerables del techo. Clasificación nominal 3 para resistencia a los impactos⁶ y puede ser aplicable a descuento por seguro del propietario.⁷



ADDED PROTECTION

Limited Lifetime Warranty* when installed with Owens Corning® laminate shingles and up to 110/130-MPH Wind Resistance Limited Warranty.* StreakGuard® Protection with a 25-year Algae Resistance Limited Warranty.^{3/8}

MÁS PROTECCIÓN

Garantía limitada de por vida* cuando se instala con tejas laminadas de Owens Corning®, y garantía limitada de resistencia al viento de hasta 110/130 mph (209 km/h)*. Protección StreakGuard® con una garantía limitada de resistencia a las algas durante 25 años.^{3/8}

TURN UP THE COLOR ON YOUR ROOF

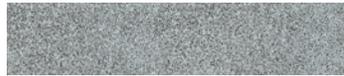
Attention to detail matters. ProEdge® Hip & Ridge Shingles provide a clean, consistent roof line while offering a cost-effective solution to cut 3-tab shingles. It's the perfect finishing touch for the most visible part of your roof.

See map below for color availability.



Amber¹

Not available in Service Areas / No disponible en las áreas de servicio
1, 2, 4, 5, 6, 7, 8, 9, 11, 12



Antique Silver¹

Not available in Service Areas / No disponible en las áreas de servicio
1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12



Beachwood Sand¹

Not available in Service Areas / No disponible en las áreas de servicio
1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12



Black Walnut¹

Not available in Service Areas / No disponible en las áreas de servicio
1, 2, 3, 4, 5, 6, 7, 8, 9, 10



Brownwood¹



Chateau Green¹



Colonial Slate¹

Not available in Service Areas / No disponible en las áreas de servicio
2, 3, 6, 11, 12



Desert Rose¹



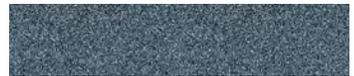
Desert Tan¹



Driftwood¹



Estate Gray¹



Harbor Blue¹

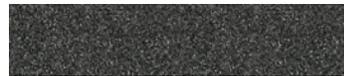
Not available in Service Areas / No disponible en las áreas de servicio
4, 5, 7, 9, 11, 12



Midnight Plum^{1/5}



Onyx Black¹



Peppercorn¹

Not available in Service Area / No disponible en las áreas de servicio
3



Quarry Gray¹

Not available in Service Areas / No disponible en las áreas de servicio
1, 4, 5, 7, 8, 9, 10, 11, 12



Sand Castle¹

Not available in Service Areas / No disponible en las áreas de servicio
2, 3, 6, 8, 10, 12



Shasta White¹

Not available in Service Areas / No disponible en las áreas de servicio
1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12



Sierra Gray¹

Not available in Service Areas / No disponible en las áreas de servicio
2, 3, 6



Slatestone Gray¹

Not available in Service Areas / No disponible en las áreas de servicio
3, 8, 10, 11, 12



Teak¹



Terra Cotta¹

Not available in Service Area / No disponible en las áreas de servicio
12



Twilight Black¹

Not available in Service Areas / No disponible en las áreas de servicio
1, 3, 4, 5, 7, 8, 9, 10, 11



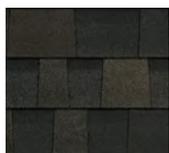
Williamsburg Gray¹

BRIGHT. BOLD. BRILLIANT.

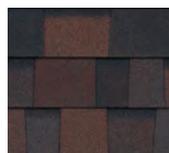
ProEdge® Hip & Ridge shingles coordinate with TruDefinition® Duration® Shingles Designer Colors Collection.



Aged Copper¹



Black Sable^{1/4}



Bourbon^{1/4}



Merlot¹



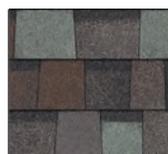
Pacific Wave¹



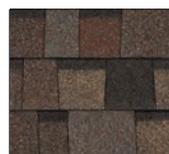
Sand Dune¹



Sedona Canyon¹



Storm Cloud¹



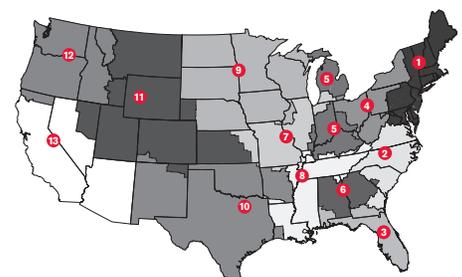
Summer Harvest¹

RESPLANDECIENTE. ATREVIDO. BRILLANTE.

Las tejas ProEdge® para lima y cumbre se coordinan con la colección TruDefinition® Duration® de colores de diseñador para tejas.

COLOR AVAILABILITY MAP

Disponibilidad de colores por zonas/región





Don't let black streaks lower the value or curb appeal of your home.

Owens Corning blends specialized copper-lined granules, developed by 3M, a leading producer of roofing granules, into our colorful shingles. This helps resist blue-green algae growth.

No deje que las manchas de algas afecten al valor o aspecto de su vivienda.

En sus coloridas tejas, Owens Corning combina gránulos especiales con recubrimiento de cobre desarrollados por 3M, un productor líder de gránulos para techos. Esto ayuda a prevenir la proliferación de algas azul verdosas.

THE RIGHT RIDGE MEANS MORE PROTECTION

Add extra protection and dimension while defending the parts of your roof that are vulnerable to high winds. With 2X higher wind rating than cut 3-tab shingles, ProEdge® Hip & Ridge shingles offer better performance without sacrificing style.

LA CUMBRERA CORRECTA SIGNIFICA MÁS PROTECCIÓN

Añade protección y dimensión adicionales, al mismo tiempo que protege las partes del techo vulnerables a los vientos fuertes. Con una clasificación de viento dos veces mayor que las tejas de 3 lengüetas cortadas, las tejas para limatesa y cumbrera ProEdge® ofrecen un mejor desempeño sin sacrificar el estilo.

2X WIND WARRANTY
OVER CUT 3-TAB SHINGLES

2X GARANTÍA
CONTRA EL VIENTO
PARA TEJAS DE 3 LENGÜETAS
CORTADAS



COLOR DISCLAIMER

As color experts, we know getting the shingle color right is a big part of any roofing purchase. Due to printing color variations, in addition to viewing shingle literature, we suggest you request an actual shingle sample to see how it will appear on your home and with your home's exterior elements in various natural lighting conditions. Lastly, we recommend you verify your color choice by seeing it installed on an actual home; your roofing contractor or supplier can provide a sample and may be able to direct you to a local installation.

EXENCIÓN DE RESPONSABILIDAD DE COLOR

Como expertos en color, sabemos que lograr el color de teja correcto es una gran parte de cualquier compra de techos. Debido a las variaciones de color de impresión, además de ver la documentación sobre las tejas, le sugerimos que solicite una muestra de una teja real para ver cómo quedaría en su vivienda y con los elementos exteriores de su vivienda en diversas condiciones de luz natural. Por último, le recomendamos que verifique su elección de color al verla instalada en una vivienda real; su contratista o proveedor de techos puede proporcionarle una muestra y puede dirigirlo a una instalación local.



TOTAL PROTECTION SIMPLIFIED®

It takes more than just shingles to protect a home. It takes an integrated system of components and layers designed to perform in three critical areas. The Owens Corning® Total Protection Roofing System® gives you the assurance that all of your Owens Corning roofing components are working together to help increase the performance of your roof.

PROTECCIÓN TOTAL SIMPLIFICADA®

Se necesita más que simplemente tejas para proteger su vivienda. Se necesita un sistema integral de componentes y capas diseñadas para desempeñarse en tres áreas críticas. El Total Protection Roofing System® de Owens Corning® le garantiza que todos sus componentes para techo de Owens Corning funcionan en conjunto para aumentar el desempeño del techo.



Helps create a waterproof barrier
Ayuda a crear una barrera impermeable



Helps protect against nature's elements
Protege contra los elementos climáticos



For balanced attic ventilation
Para una ventilación equilibrada del ático



® For intake ventilation, use approved Owens Corning® Vent Sure® InFlow ventilation or soffit ventilation. Do not use both intake ventilation options in one roofing application. See install instructions for more details.
® Para la ventilación de entrada, utilice la ventilación aprobada por Owens Corning® Vent Sure® InFlow o ventilación de alero. No utilice ambas opciones de ventilación de entrada en una misma aplicación para techos. Consulte las instrucciones de instalación para obtener más detalles.

REGISTER YOUR WARRANTY

Registering your Owens Corning® warranty ensures it's easily referenced should you ever need to access it. The process is easy—just have your installation date, shingle type, shingle color and number of squares ready. Then go online to www.owenscorning.com/roofingstandardwarranty or call 1-800-ROOFING (1-800-766-3464) to finish the process.



REGISTRE SU GARANTÍA

Al registrar su garantía de Owens Corning®, le garantiza que la pueda consultar fácilmente en caso de que necesite acceder a ella. El proceso es simple: tenga a mano la fecha de instalación, el tipo de tejas, el color de tejas y la cantidad de cuadrados. Luego, visite www.owenscorning.com/roofingstandardwarranty o llame al 1-800-ROOFING (1-800-766-3464) para finalizar el proceso.



SCAN TO REGISTER YOUR WARRANTY

Escanee para registrar su garantía

Product Attributes

Warranty Length*

Limited Lifetime†
(for as long as you own your home)

Wind Resistance Limited Warranty**/††

110/130-MPH

Algae Resistance Limited Warranty*/§

25 Years



Atributos del producto

Duración de la garantía*

Limitada de por vida†
(durante el tiempo que sea propietario de su casa)

Garantía limitada de resistencia al viento*/††

177-209 km/h (110-130 mph)

Garantía limitada de resistencia a algas*/§

25 años



ProEdge® Hip & Ridge Shingle Product Specifications

Nominal Size	12" x 36"
Nominal Size	12" x 12"
Exposure	6"
Shingles per Bundle	22
Pieces per Shingle/Bundle	3/66
Lineal Coverage per Bundle	33 ft.

Especificaciones del producto de teja ProEdge® para lima y cumbre

Tamaño nominal	12" x 36" (30.5 cm x 91.4 cm)
Tamaño nominal	12" x 12" (30.5 cm x 30.5 cm)
Exposición	6" (15.24 cm)
Tejas por paquete	22
Piezas por teja/paquete	3/66
Cobertura lineal por paquete	33 pies (10 m)

Applicable Standards and Codes

ASTM D3462

CSA A123.5**

ASTM D228

ASTM D3018 (Type 1)

ICC-ES AC438#

ASTM D3161 (Class F Wind Resistance)

ASTM E108/UL 790 (Class A Fire Resistance)

UL 2218 (Class 3 Impact Resistance)§

FM 4473 (Class 3 Impact Resistance)§

PRI ER 1378E01

Florida Product Approval

Miami-Dade County Approval²

Normas y códigos aplicables

ASTM D3462

CSA A123.5**

ASTM D228

ASTM D3018 (Tipo 1)

ICC-ES AC438#

ASTM D3161 (resistencia al viento Clase F)

ASTM E108/UL 790 (resistencia al fuego Clase A)

UL 2218 (Resistencia a impactos de clase 3)§

FM 4473 (Resistencia a impactos de clase 3)§

PRI ER 1378E01

Aprobación de productos de Florida

Aprobación del condado de Miami-Dade²

* See actual warranty for complete details, limitations and requirements.

† 40-year Limited Warranty on commercial projects.

†† 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.

++ Only on product sold in Canada.

International Code Council Evaluation Services Acceptance Criteria for Alternative Asphalt Shingles.

^ Excludes non-Owens Corning® roofing products such as flashing, fasteners, pipe boots and wood decking.

1 See Color Disclaimer Information on page 4 for additional details.

2 Applies for all areas that recognize a Miami-Dade Notice of Acceptance (NOA).

3 Shingles are algae resistant to help control the growth of algae and discoloration.

§ Installation must include use of an approved Owens Corning® laminate shingle product with a 25-year algae resistance warranty. See actual warranty for details.

4 Owens Corning® Black Sable shingles and Bourbon shingles include a patented design.

6 Qualifying Owens Corning Hip & Ridge Shingles may be required to complete a UL 2218 and/or FM 4473 Class 3 Impact-Resistant Roof System. Given the variability in real storm conditions, a Class Rating on any product class rating does not guarantee resistance to all weather conditions. Owens Corning shingles are not covered under a warranty for hail damage.

7 Homeowners should check with their insurance company to see if they qualify.

* Consulta la garantía para conocer los detalles, las limitaciones y los requisitos.

† Garantía limitada de 40 años para proyectos comerciales.

†† La velocidad de 177 km/h (110 mph) es estándar con la aplicación de 4 clavos. La velocidad de 209 km/h (130 mph) solo se aplica cuando se usan 6 clavos y tejas de hilada inicial de Owens Corning® a lo largo de aleros y cornisas de acuerdo con las instrucciones de instalación.

++ Solo para productos vendidos en Canadá.

Criterios de aceptación de los servicios de evaluación del Consejo de Código Internacional para el asfalto alternativo Tejas.

^ No incluye productos de techado que no sean de Owens Corning®, como tapajuntas, sujetadores, fundas de tuberías y terrazas de madera.

1 Consulta la sección Información de exención de responsabilidad de color en la página 4 para obtener más detalles.

2 Se aplica a todas las áreas que reconocen un aviso de aceptación (NOA) de Miami-Dade.

3 Las tejas son resistentes a las algas para ayudar a controlar el crecimiento de las algas y la decoloración.

§ La instalación debe incluir el uso de un producto aprobado por Owens Corning® para teja laminada con una garantía de 25 años de resistencia a las algas. Consulta la garantía real para obtener más detalles.

4 Las tejas de Owens Corning® Black Sable y Bourbon incluye un diseño con patente pendiente.

6 Es posible que se requiera el uso de tejas aptas para limatesa y cumbre de Owens Corning para completar un sistema de techo resistente a impactos UL 2218 y/o FM 4473 Clase 3. Dada la variabilidad en las condiciones de tormenta reales, una clasificación de clase en cualquier clasificación de clase de producto no garantiza la resistencia a todas las condiciones climáticas. Las tejas de Owens Corning no cuentan con una garantía por daños de granizo.

7 Los propietarios deben verificar con su aseguradora para saber si califican.



OWENS CORNING ROOFING AND ASPHALT, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

1-800-GET-PINK® | 1-800-438-7465
www.owenscorning.com

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VENTSURE® 4-FOOT STRIP

Heat & Moisture Ridge Vents

Respiraderos de cumbrera de calor y humedad



BREATHE. RESPIRAR.

For balanced attic ventilation

Para una ventilación equilibrada del ático



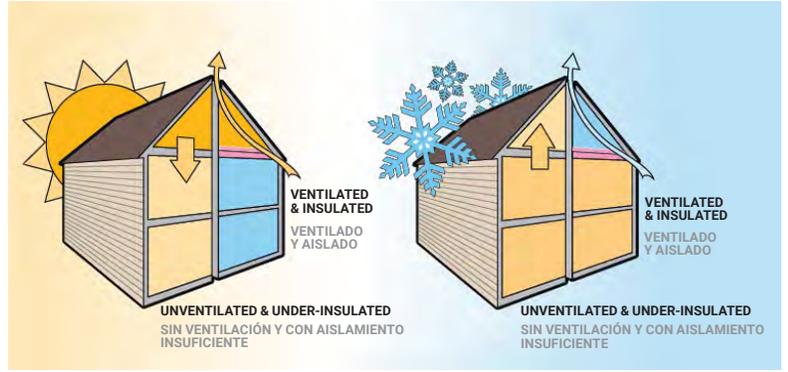
TOTAL PROTECTION. TOTAL CONFIDENCE.®
PROTECCIÓN TOTAL. CONFIANZA TOTAL.™



RELEASE HEAT AND MOISTURE. DESIGNED FOR ROOF DURABILITY.

Ventilation is essential to keeping roofs looking and performing their best. Without proper ventilation, excessive heat and moisture can get trapped in the attic, causing damage to your home. A properly ventilated attic gives trapped heat and moisture an escape route—resulting in improved home energy efficiency—and enhances the performance of the shingles.

VentSure 4-Foot Strip Heat & Moisture Ridge Vents work with intake ventilation to help improve the flow of cool, dry air upward through the attic. The result is excellent roof deck protection. 4-Foot Strip Ridge Vents are flexible enough to conform to virtually any roof slope for a more attractive ridgeline. Plus, their unique baffle design provides superior performance and is available with or without Weather PROtector® moisture barrier.



Proper insulation and ventilation minimize the temperature differential between the attic and the air outside, helping reduce energy costs.

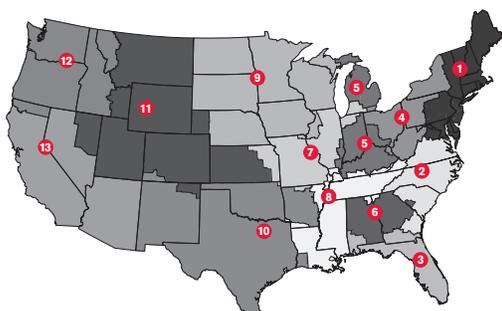
El aislamiento y la ventilación adecuados minimizan el diferencial de temperatura entre el ático y el aire exterior, lo que ayuda a reducir los costos de energía.

LIBERAR CALOR Y HUMEDAD. DISEÑADO PARA DURABILIDAD DE SU TECHO.

La ventilación es esencial para mantener los techos con un aspecto y un rendimiento óptimos. Sin una ventilación adecuada, el calor y la humedad excesivos pueden quedar atrapados en el ático y causar daños en su hogar. Un ático con ventilación adecuada proporciona a la humedad y al calor atrapados una vía de escape, lo que resulta en una eficiencia energética mejorada en el hogar, y mejora el rendimiento de las tejas.

Los Respiraderos para cumbrera de calor y humedad VentSure de 4 pies trabajan con ventilación de entrada para ayudar a mejorar el flujo de aire fresco y seco hacia arriba a través del ático. El resultado es una excelente protección de la azotea. Los Respiraderos de cumbrera de 4 pies son lo suficientemente flexibles para adaptarse a prácticamente cualquier pendiente del techo para una línea de cumbrera más atractiva. Además, su diseño de deflector único proporciona un rendimiento superior y está disponible con o sin barrera contra la humedad Weather PROtector®.

- Bends to create a more uniform ridgeline**
Se dobla para crear una línea de cumbrera más uniforme
- External Baffle Design**
Helps deflect wind-driven rain and snow
Diseño de deflector externo
Ayuda a desviar la lluvia y la nieve impulsadas por el viento
- With Weather PROtector® Moisture Barrier (available in some markets)**
Filter provides added protection during wind-driven rain and snowstorms
- Con Weather PROtector® Moisture Barrier (disponible en algunos mercados)**
El filtro ofrece protección adicional durante la lluvia y las tormentas de nieve provocadas por el viento.
- Flat external design helps avoid the collection of pine needles, leaves, and other debris**
El diseño externo plano ayuda a evitar la acumulación de agujas de pino, hojas y otros residuos
- Allows heat and moisture to escape the attic**
Permite que el calor y la humedad escapen del ático
- Works with intake vents to keep fresh air flowing through the attic**
Funciona con respiraderos de entrada para mantener el flujo de aire fresco a través del techo.



	1	2	3	4	5	6	7	8	9	10	11	12	13
	Kearny	Savannah	Jax.	Medina	Brookville	Atlanta	Summit	Memphis	Minn.	Irving	Denver	Portland	Compton
8" with Weather PROtector® Moisture Barrier													•
10" with Weather PROtector® Moisture Barrier							•			•	•	•	•
12" with Weather PROtector® Moisture Barrier	•	•		•	•		•		•	•	•	•	
12" without Weather PROtector®	•	•	•	•	•	•	•	•		•			

VentSure® 4-Foot Strip Ridge Vents with or without Weather PROtector® Moisture Barrier Provide:

 **Outstanding performance** – industry-leading net free vent area*. See product specification chart for more detail.

 **Exceptional weather protection** – the baffle and Weather PROtector® moisture barrier help protect against weather infiltration. Unique flat baffle design helps improve airflow by keeping leaves, pine needles or similar debris from impacting the performance of the vent.

 **Designed for roof durability** – proper ventilation helps maximize the performance of the entire roof system.

* Net free vent area = area of vents that is open to unrestricted airflow. As a general rule, 1 sq. ft. of net free vent area per 300 sq. ft. of attic space or area to be vented is recommended.

Respiradero de cumbre de 4 pies VentSure® con o sin barrera contra la humedad Weather PROtector® Proporciona:

 **Rendimiento excepcional:** área de ventilación sin red líder en la industria*. Consulte la tabla de especificaciones del producto para obtener más detalles.

 **Protección excepcional contra el clima:** la barrera contra la humedad del deflector y Weather PROtector® ayuda a proteger contra la infiltración de clima. Diseño exclusivo de deflector plano que mejora el flujo de aire al evitar que hojas, agujas de pino o residuos similares afecten al rendimiento del respiradero.

 **Durabilidad del techo:** la ventilación adecuada ayuda a maximizar el rendimiento del sistema de techo completo.

* Área de ventilación libre neta = área de ventilación que permite un flujo de aire sin restricciones. Como regla general, se recomienda 1 pie cuadrado de área de ventilación libre neta por cada 300 pies cuadrados de espacio en el ático o superficie que se va a ventilar.

Get the Job Done with Less | Haga el trabajo con menos

1 box of 10 VentSure® 4-Foot Strip Ridge Vents
caja de 10 respiraderos de cumbre de 4 pies VentSure®

VS.

16 standard roof vents at 50 sq. in. of net free vent area per vent
respiraderos de techo estándar a 50 pulgadas cuadradas de área de ventilación libre neta por respiradero



Balanced Ventilation Requirements | Requerimientos de ventilación equilibrada

Based on 1/300 rule (1 sq. ft. of net free vent area for every 300 sq. ft. of attic floor space)

Basado en la regla de 1/300 (1 pie cuadrado de área de ventilación libre neta por cada 300 pies cuadrados de espacio en el piso del ático)

TOTAL ATTIC SQ.FT. PIES CUADRADOS TOTALES DE ÁTICO	RECOMMENDED LENGTH OF VENTSURE® 4-FOOT STRIP RIDGE VENT LONGITUD RECOMENDADA DE FRANJA DE 4 PIES VENTSURE® DE RESPIRADERO DE CUMBRE	MINIMUM INTAKE VENTILATION (NET FREE VENT AREA IN SQ. IN.) VENTILACIÓN DE ENTRADA MÍNIMA (ÁREA DE VENTILACIÓN LIBRE NETA EN PULGADAS CUADRADAS)
1400	17	336
1800	22	432
2200	26	528
2600	31	624
3000	36	720
3400	41	816

NOTE: Assumes a balanced ventilation system. A balanced ventilation system has 50 percent of required ventilation area provided by the ridge vents and the remaining 50 percent provided by the intake vents.

NOTA: Supone un sistema de ventilación equilibrado. Un sistema de ventilación equilibrado tiene el 50 por ciento del área de ventilación requerida proporcionada por los respiraderos de cumbre y el 50 por ciento restante proporcionado por los respiraderos de entrada.



▲ VentSure® 4-Foot Strip Ridge Vent

Unlike competitive products, VentSure® 4-Foot Strip Ridge Vents feature a unique flat design that improves airflow by preventing the collection of debris in the louver structure.

A diferencia de los productos de la competencia, los Respiraderos de cumbre de 4 pies VentSure® cuentan con un diseño plano único que mejora el flujo de aire al evitar la acumulación de residuos en la estructura de la rejilla.



◀ Leading Competitor Product
Producto líder de la competencia



Whether your roof pitch is low or steep, VentSure® 4-Foot Strip Ridge Vents easily bend to create a more uniform ridgeline.

Ya sea que su inclinación del techo sea baja o empinada, los Respiraderos de cumbre de 4 pies VentSure® se doblan fácilmente para crear una línea de cumbre más uniforme.



TOTAL PROTECTION SIMPLIFIED®

It takes more than just shingles to protect a home. It takes an integrated system of components and layers designed to perform in three critical areas. The Owens Corning® Total Protection Roofing System®* gives you the assurance that all of your Owens Corning roofing components are working together to help increase the performance of your roof.

PROTECCIÓN TOTAL SIMPLIFICADA®

Se necesita más que simplemente tejas para proteger su vivienda. Se necesita un sistema integral de componentes y capas diseñadas para desempeñarse en tres áreas críticas. El Total Protection Roofing System® de Owens Corning® le garantiza que todos sus componentes para cubiertas de Owens Corning funcionan en conjunto para mejorar el desempeño de su techo.



SEAL. SELLAR.

Helps create a waterproof barrier
Ayuda a crear una barrera impermeable

DEFEND. DEFENDER.

Helps protect against nature's elements
Protege contra los elementos climáticos

BREATHE. RESPIRAR.

For balanced attic ventilation
Para una ventilación equilibrada del ático

Hip & Ridge shingles
Tejas de limatesa y cumbreira

Laminate shingles
Tejas laminadas

Starter shingles
Tejas de arranque

Self-adhered ice & water barrier
Barrera autoadhesiva contra el hielo y el agua

Synthetic underlayment
Membrana impermeabilizante sintética



Exhaust vents
Salidas de aire

Intake vents
Entradas de aire

+ COMFORT. CONFORT.

Add comfort and energy performance
Más confort y desempeño energético

PINK® Fiberglass™ blown-in attic insulation
Aislamiento para áticos PINK® Fiberglass™ aplicado por impulsión

* For intake ventilation, use approved Owens Corning® Vent Sure® InFlow ventilation or soffit ventilation. Do not use both intake ventilation options in one roofing application. See install instructions for more details.
* Para la ventilación de entrada, utilice la ventilación aprobada por Owens Corning® Vent Sure® InFlow o ventilación de sofito. No utilice ambas opciones de ventilación de entrada en una misma aplicación para techos. Consulte las instrucciones de instalación para obtener más detalles.

Product Specifications

	Vent without Weather PROtector®	12" Vent with Weather PROtector®	10" Vent with Weather PROtector®	8" Vent with Weather PROtector®
Net Free Vent Area	20 sq inches per lineal foot	20 sq inches per lineal foot	18 sq inches per lineal foot	18 sq inches per lineal foot
Width	15 inches	15 inches	13.28 inches	11.43 inches
Length	48 inches	48 inches	48 inches	48 inches
Height	1 inch	1 inch	1 inch	1 inch
Shingle-Over Width	12 inches	12 inches	10 inches	8 inches
Allowable Roof Pitch	3/12 to 16/12	3/12 to 16/12	3/12 to 16/12	3/12 to 16/12

Product Attributes

20-year limited warranty**

Codes and Standards

FBC-TAS 100(A) Wind-Driven Rain up to 110-MPH

Florida Product Approval

ICC-ES AC132#

TDI Listed for Usage in Texas Coastal Regions

UL ER21292-01

Miami-Dade Product Approval

Especificaciones del producto

	Respiradero sin Weather PROtector®	Respiradero de 12" con Weather PROtector®	Respiradero de 10" con Weather PROtector®	Respiradero de 8" con Weather PROtector®
Área de ventilación libre neta	20 pulgadas cuadradas por pie lineal	20 pulgadas cuadradas por pie lineal	18 pulgadas cuadradas por pie lineal	18 pulgadas cuadradas por pie lineal
Ancho	15 pulgadas	15 pulgadas	13.28 pulgadas	11.43 pulgadas
Longitud	48 pulgadas	48 pulgadas	48 pulgadas	48 pulgadas
Altura	1 pulgada	1 pulgada	1 pulgada	1 pulgada
Ancho de la teja	12 pulgadas	12 pulgadas	10 pulgadas	8 pulgadas
Inclinación de techo permitida	3/12 a 16/12	3/12 a 16/12	3/12 a 16/12	3/12 a 16/12

Atributos del producto

Garantía limitada de 20 años**

Códigos y estándares

FBC-TAS 100(A) Lluvia con viento fuerte hasta 110 MPH

Aprobación de productos de Florida

ICC-ES AC132#

TDI listado para uso en regiones costeras de Texas

UL ER21292-01

Aprobación del producto de Miami-Dade

** See actual warranty for complete details, limitations and requirements.
International Code Council Evaluation Services Acceptance criteria for attic vents

** Consulte la garantía para conocer los detalles, las limitaciones y los requisitos.
Criterios de aceptación de los servicios de evaluación del Consejo de Código Internacional para respiraderos en áticos.

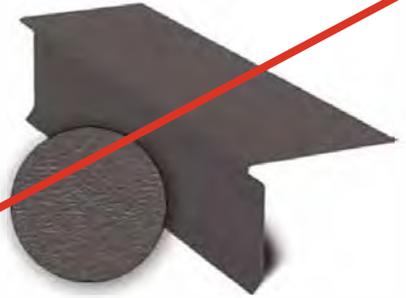
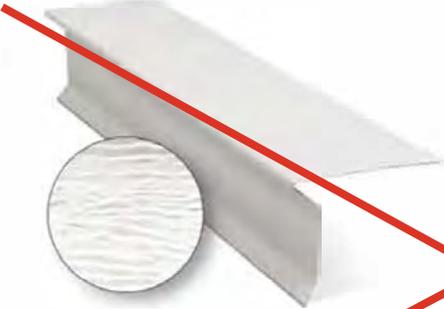


OWENS CORNING ROOFING AND ASPHALT, LLC
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(Atlanta, Brookville, Compton, Denver, Irving East, Irving West, Kearny, Medina, Minneapolis, Portland, Savannah, Summit)

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EAVE DRIPS



Galvanized

24 & 26 gauge – G90 Galvanized Coating Weight

Galvalume

26 gauge – AZ 55 Coating

Painted Galvalume

26 gauge – AZ 55 Coating

Mill Finish Aluminum

.019, .025 & .032

Copper

16 oz.

Painted

.019, .025 & .032

Fifteen Stock Colors

~~Six Premium Colors~~

See Color Charts below

~~Custom Colors Available~~

~~**NEW!** Crinkle Coat Collection~~

~~White, Black, Brown & Weatherwood~~

Assorted Face & Deck Sizes Available

1 1/2" x 1/12"

2" x 2"

2 1/2" x 2 1/2" New Size!

2" x 3"

3" x 3"

4" x 4"



NEW PRODUCTS

METAL

ALUMINUM & VINYL

PAINT LINE

SOLUTIONS

RESOURCES

ABOUT US

CONTACT

HOME

STANDARD COLORS

PREMIUM COLORS

All our standard colors meet energy star requirements.

Colors are an approximation. Actual production colors may vary slightly from the samples on this website.



Custom Colors available on TM-Lok and 5V upon request. Minimum quantities required.

Cool-Coat Chemistry Colors available in Standard and most Custom Colors.

*Thompson White also meets Florida Power and Light requirements.

**Formerly known as Sand Stone and Barn Red.



Thompson White*



Clay



Almond



Bone White



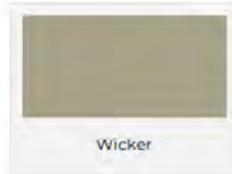
Grey



Grizzle Gray



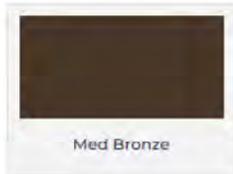
Beige



Wicker



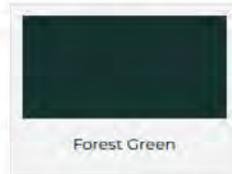
Light Stone**



Med Bronze



Marine Green



Forest Green



Country Red**



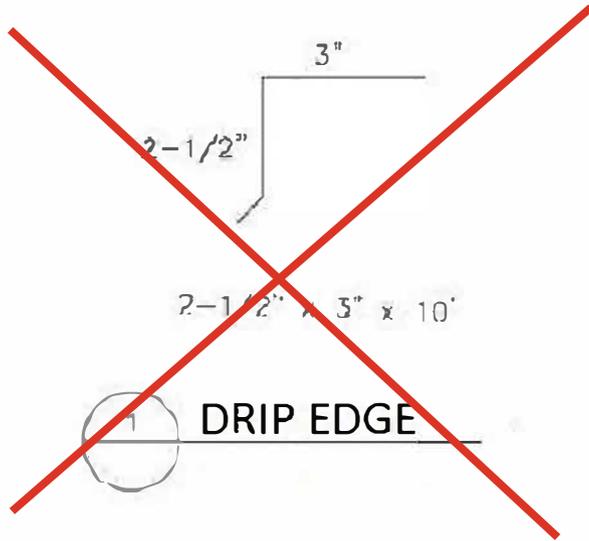
Brown



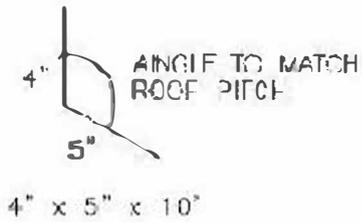
Musket Brown



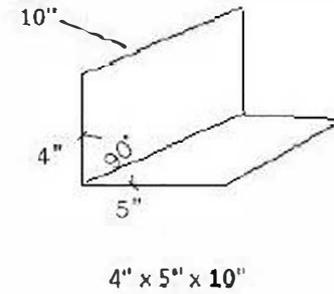
Galvalume/Galvanized



1 DRIP EDGE



2 L-FLASHING (HEAD WALL)



3 STEP FLASHING (SIDEWALL)

26 GAUGE GALV - FLASHING DETAIL



Central Florida #1 Roofing Specialist

COLLIS ROOFING, INC.
 "Excellence Driven Through Experience"
 P.O. Box 520666 Longwood, FL 32757-0666
 Office: 321-411-2300 / FAX 321-411-2313



Product Data Sheet
#211 PLASTIC CEMENT
(Meets ASTM D4586)

PRODUCT DESCRIPTION

#211 Plastic Cement is a general-purpose formulation for use as a cold-applied sealing and repair material in many types of asphalt roof membranes. #211 Plastic Cement has a “trowel-grade” consistency which makes this product ideal for flashing details and a variety of waterproofing repairs, such as moving joints and roof penetrations. #211 Plastic Cement has a superior formulation that will not separate.



BASIC USES

- Repairing asphalt shingles, conventional built-up roofs, metal, and masonry surfaces.
- Sealing leaks and openings around flashings (chimneys, vents, skylights, metal joints, gutters and similar objects used in constructing built-up flashings).
- Positive side damp proofing of concrete, masonry walls and foundations.
- NOT RECOMMENDED for use with polymer-modified bitumen (APP, SBS).
- DO NOT USE with PVC, TPO, EPDM or other single-ply membranes.

PHYSICAL PROPERTY INFORMATION*

Property	Test Procedure	Test Value
Weight/gal (lb)	ASTM D2939	7.8 – 8.5
Solids Weight (%)	ASTM D1644	> 71
Flash Point (0F)	PMCC	> 105
VOC (gm/L)	Std method	< 170
Pliability @ 32°F	ASTM D6511	pass
Sag @ 140°F	ASTM D6511	pass
* Data reported is based on available independent and in-house resources. Mule-Hide reserves the right to change or modify, at its discretion, and without prior written notice, any of the information, requirements, specifications, or policies contained in this document.		

PACKAGING

- 2.8 Gallon Pail (10.6 Liters)
- 4.75 Gallon Pail (17.9 Liters)

BENEFITS & SUPPLEMENTAL STATEMENTS

- High flexibility to accommodate temperature-related expansion and contraction of the roof system.
- Provides exceptional weathering characteristics over a wide range of challenging temperatures and weather conditions. Will not mudcrack and will remain highly resilient and durable through all seasons
- Interlocking fiber matrix assures uniform, excellent adhesion
- Exhibits excellent sag resistance when used on vertical surfaces, even at high temperatures.
- Non-destructive to conventional asphalt based roofing membranes
- 100% recycled cellulose fibers

CODE APPROVALS/COMPLIANCE

- Miami Dade County Approved
- Meets or exceeds requirements of ASTM D4586 Type I
- Meets or exceeds requirements of ASTM D3409

Product Data Sheet

#211 PLASTIC CEMENT (meets ASTM D4586)

COVERAGE RATES

- Approximately 8 gallons per 100 sq. ft. for a 1/8" (3 mm) coat applied to both surfaces.
(All values are approximate and may vary with ambient temperature and job conditions)

INSTALLATION TEMPERATURE

- Apply only when ambient temperatures are 45°F and rising. Cold weather could result in uneven application and improper curing of product. Cold weather will cause product to stiffen making application more difficult.
- Not recommended for application on substrates that exceed 140°F.

INSTALLATION INSTRUCTIONS

Surface Preparation:

- Surfaces to receive coating must be clean, dry, and free from any foreign matter such as dirt, oils, grease or other debris that could inhibit the adhesion capabilities of the newly installed products. Priming is recommended when adhering to questionable conditions.
- On existing roofs, inspect roof substrate condition. Blisters, buckles, and raised edges should be cut out and repaired for a smooth surface.
- Check all flashings, edges, drains, valleys and vents and repair as needed.
- Do not use on wet or damp surfaces, directly over wood or on surfaces previously covered with coal tar-based products.
- Not recommended for use with polymer-modified bitumen membranes

Application:

- Application rate: Approximately 1/8" coat depending on ambient temperature, surface porosity, as well as applicator and/or application technique.
- Application method: Use pointed trowel or wide-edged putty knife to apply cement evenly and in equal amounts to substrate and flashing. Coat should be 1/8" thick, without gaps, dry areas, or bubbles.
- Three coursing: Apply plastic cement to surface and install fabric or webbing into cement, then apply a final course of roof cement.
- Sealing/Repairs: Work the product into the opening or crack and spread two inches beyond repair area at minimum. Embed reinforcing fabric into the cement for added reinforcement, then cover with additional cement. If desired, repeat procedure for coursing application and feather each layer of fabric beyond underlying layer.
- Do not heat exterior of container or attempt to thin this product. Cold weather will cause product to stiffen, making application more difficult.
- To greatly extend the life of the roof cement, it is recommended that the applicator apply a Mule-Hide Aluminum roof coating after a minimum of 30 days cure time.

For Professional Use Only – Keep out of the reach of children.

STORAGE AND CLEAN UP

- Shelf life is 24 months if stored in original unopened containers.
- All containers should be sealed when not in use.
- Store between 40°F and 100°F.
- If temperatures are cold, store product in a heated area overnight.
- DO NOT HEAT WITH AN OPEN FLAME.
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Clean equipment and overspray with water.
- Clean hands with waterless hand cleaner.

Product Data Sheet

#211 PLASTIC CEMENT (meets ASTM D4586)

- Application tools and equipment can be cleaned with odorless mineral spirits solvent. Recirculate through lines and spray equipment guns until residual coating is removed.
- DO NOT USE WATER OR RECLAIMED SOLVENTS.

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Phoenix, AZ
- Waco, TX
- Winter Haven, FL

PROTECTION & SAFETY

Mule-Hide maintains Safety Data Sheets on all of its non-exempt products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Mule-Hide's Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Mule-Hide products in your facilities.

ADDITIONAL INFORMATION

The information given on this PDS is subject to change without notice. Always check the Mule-Hide website at www.mulehide.com for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate at the time of printing. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the alleged failure before repairs are made.

JOB NAME:

CONTRACTOR:

DATE:

STINGER®



PLASTIC CAP & NAIL

TYPE

Ring



FUNCTION

Hand driven fastener
 For indoor or outdoor applications
 Designed for installation of synthetic underlayment, roofing felt, housewrap, and insulation

FEATURES

Fasteners meet or exceed the ASTM F1667 Standard (if applicable)
 Ring Shanks are deformed to have repeated ridges to increase withdrawal strength
 Pre-assembled nail to plastic cap

CORROSION

Electro Galvanized (EG) in accordance with ASTM A641 standards for low level corrosion resistance
 Cap is formed using a polymer compatible with the injection-molding process

CAUTION



Proper personal protection equipment (PPE), i.e. safety glasses, must be worn during installation of any fastener
 Electro Galvanized (EG) shall not be used within 3000 feet of saltwater
 All materials and finish options shall be used in accordance with the recommendation of the treated lumber manufacturer

TECHNICAL	Cap	Cap			Nail	Nail	ASTM F1667
	Diameter	Edge Lip			Length	Shank	Bend Yield*
	1 in ±.063	0.035 in			up to 3 in	Ø 0.105 in	100,000 psi

* ASTM F1667 Bend Yield is a minimum average value appropriate for non-hardened products only

PRODUCT	Length Nail	Penny Length	Box Count QTY	EG sku	HDG sku	304 SS sku	316 SS sku
Box	3/4 in	-	2000	0135033	-	-	-
Box	7/8 in	-	2000	0135043	-	-	-
Box	1 in	2d	2000	0135053	-	-	-
Box	1-1/4 in	3d	2000	0135073	-	-	-
Box	1-1/2 in	4d	2000	0135093	-	-	-
Box	1-3/4 in	5d	2000	0135113	-	-	-
Box	2 in	6d	2000	0135133	-	-	-
Box	2-1/2 in	8d	2000	0135153	-	-	-
Box	3 in	10d	2000	0135173	-	-	-
Pail	3/4 in	-	3000	0135031	-	-	-
Pail	7/8 in	-	3000	0135041	-	-	-
Pail	1 in	2d	3000	0135051	-	-	-
Pail	1-1/4 in	3d	2500	0135071	-	-	-
Pail	1-1/2 in	4d	2000	0135091	-	-	-
Pail	1-3/4 in	5d	2000	0135111	-	-	-
Pail	2 in	6d	2000	0135131	-	-	-
Pail	2-1/2 in	8d	2000	0135151	-	-	-
Pail	3 in	10d	-	-	-	-	-

JOB NAME:

CONTRACTOR:

DATE:

STINGER



WIRE COIL COLLATION FOR ROOFING NAILS

TYPES

Smooth



Ring



FUNCTION

For applying roofing asphalt shingles, insulation board, and felt to wood substructures
Fits most 15° wire coil roofing nailers

FEATURES

Collated Fasteners meet or exceed the ASTM F1667 Standard (if applicable)
Smooth Shanks provide lower withdrawal strength when compared to ring shanks
Ring Shanks are deformed to have repeated ridges to increase withdrawal strength

CORROSION

Electro Galvanized (EG) in accordance with ASTM A641 standards for low level corrosion resistance
Hot Dip Galvanized (HDG) in accordance with ASTM A153 Class D standards
300-series Stainless Steel is suitable for all marine applications

CAUTION



Proper personal protection equipment (PPE), i.e. safety glasses, must be worn during installation of any fastener
Electro Galvanized (EG) shall not be used within 3000 feet of saltwater
Only 300-series Stainless Steel will prevent tannin staining when used with cedar, cement board, or redwood
All materials and finish options shall be used in accordance with the recommendation of the treated lumber manufacturer

TECHNICAL	Length x Dia	Penny Length	Gauge (W&M)	Head Diameter	Ring Shank Length, MIN	Nails per Coil	ASTM F1667 Bend Yield*
	3/4 x .120	-	11	Ø .375 in	full length	200	100,000 psi
	7/8 x .120	-	11	Ø .375 in	full length	200	100,000 psi
	1 x .120	2d	11	Ø .375 in	full length	200	100,000 psi
	1-1/4 x .120	3d	11	Ø .375 in	1.00 in	200	100,000 psi
	1-1/2 x .120	4d	11	Ø .375 in	1.00 in	200	100,000 psi
	1-3/4 x .120	5d	11	Ø .375 in	1.00 in	200	100,000 psi

* ASTM F1667 Bend Yield is a minimum average value appropriate for non-hardened products only

PRODUCT	Length x Dia	Box Count QTY	Brite sku	EG sku	HDG sku	305 SS sku	316 SS sku
Smooth	3/4 x .120	7200	-	0611030	-	-	-
Smooth	7/8 x .120	7200	-	0611040	-	-	-
Smooth	1 x .120	7200	-	0611050	-	-	-
Smooth	1-1/4 x .120	7200	-	0611070	0611073	-	-
Smooth	1-1/2 x .120	7200	-	0611090	-	-	-
Smooth	1-3/4 x .120	7200	-	0061110	-	-	-
Ring	1-1/4 x .120	3600	-	-	-	0611074	-
Ring		7200	-	-	0611075	-	-
Ring	1-1/2 x .120	3600	-	0611072	-	0611094	-
Ring	1-3/4 x .120	3600	-	-	-	0611114	-



MILLENNIUM METALS, INC.

10200 Eastport Road Jacksonville, FL 32218
877-358-7663 MMI2000.net

Off Ridge Vent Installation Instructions

A. Preparation

To prepare roof for installation it will be necessary to determine how many and what type of vents will be needed for the project.

Off Ridge Ventilation should be installed as evenly as possible across the roof section. The roof vent should be installed a minimum of 6" off the peak of the ridge. Cut out sizes are located below in **Table 1-1**.

IMPORTANT NOTE: DO NOT CUT INTO RAFTERS OR TRUSSES.

When installing vents on an existing shingle roof remove shingles from the sides and top of the opening. Remove any nails that interfere with installing the vent. This typically includes nails that are to be 3" within the body of the vent. Shingles and existing nails should remain on the bottom slope up to the cut opening.

Roof cement is necessary around the perimeter of the underside of the vent to seal it to the underlayment or shingles. The cement should also be installed on the vent completely cover back and side flanges. The cement should be 1/4" thick and should extend 2" onto the underlayment. The lower portion of the vent should already have shingles installed up to the cut opening. The lower portion of the vent should sit on the roof cement. Shingles should be installed on the back and side flanges of the vent. All exposed nails should be covered with a 1-part urethane sealant.

B. Opening & Positioning

The cut opening should be positioned a minimum of 10" from the back flange. This allows a minimum clearance of 2-1/2" from the roof to the top of the vent. The vent should be centered horizontally over the opening. (*Use cut-out size below*)

Off Ridge Vent Installation Chart		
<u>Length</u>	<u>Net Free Area (sq in)</u>	<u>Cut Out Size</u>
4'	138	46" x 3"
6'	210	70" x 3"
8'	282	94" x 3"
10'	354	118" x 3"

Table 1-1

C. Fastening of the Off Ridge Vent

- 1) The MMI Off Ridge Vent, the Off Ridge Vent with detachable baffle, the Off Ridge Vent with the permanent baffle and the Off Ridge Vent with the retro baffle should all be attached 8" o.c. with a minimum 11 gauge 1-1/4" ring shank nail. The nail should penetrate roof deck by a 3/16" minimum. The nail shall be located 1-1/2" from all edges of the flange of the vent. Nail must be corrosion resistant to ASTM F 1667.

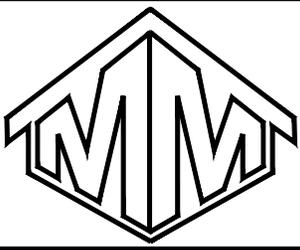
D. Minimum Pitch on Shingle Roof

- 1) The minimum pitch on shingle roof for the MMI Off Ridge Vent is 2/12.

Millennium Metals manufactures off ridge vents in the following gauges of steel & aluminum (*Aluminum available with detachable baffle only*), which meets the requirements of the Florida Building Code (chapter 15).

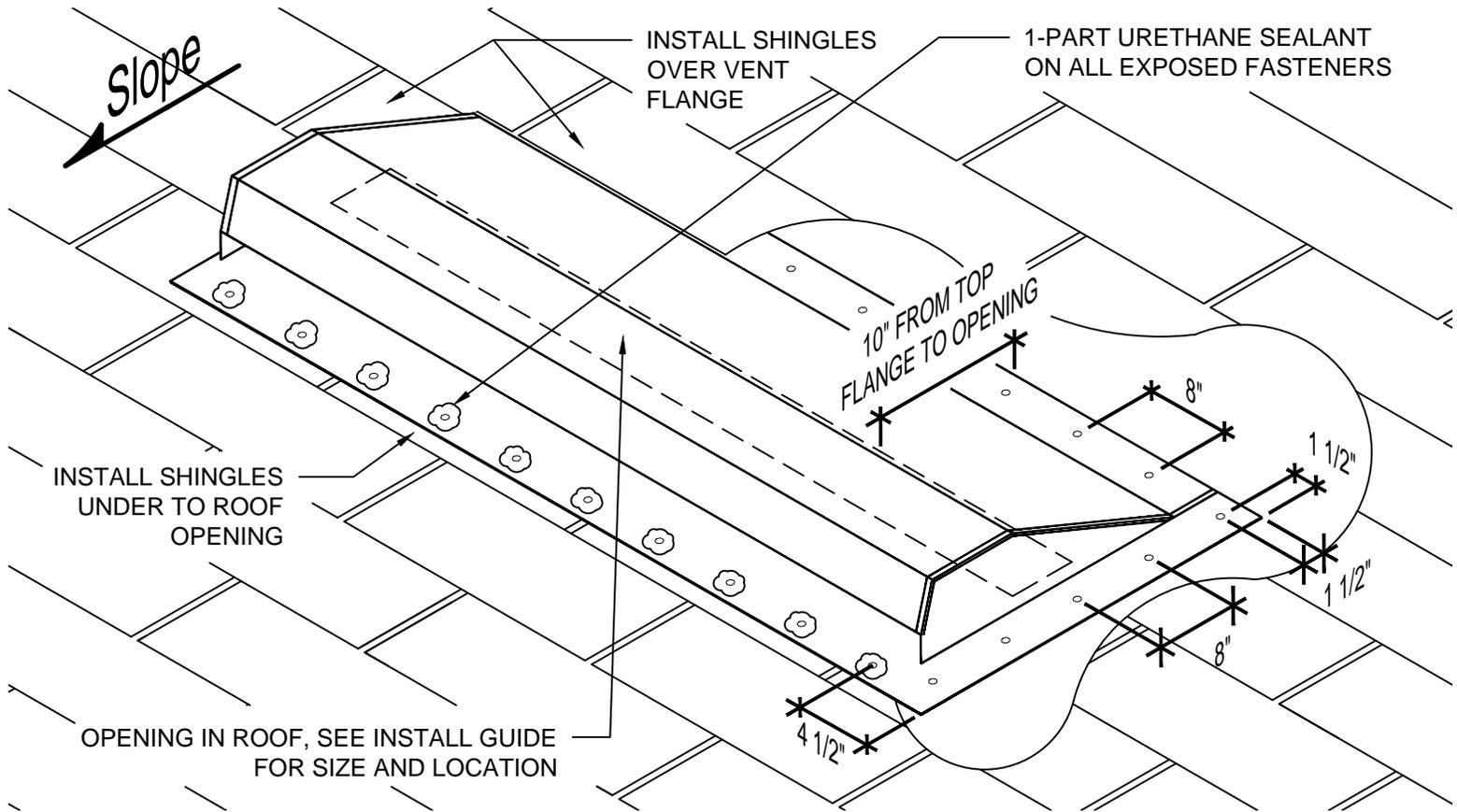
26 gauge (.0179 min) AZ50 Acrylic Coated Galvalume Steel
26 gauge (.0179 min) ASTM A-653 Steel G-90 Commercial Steel Type B
26 gauge (.0179 min) ASTM A-755 Ptd Steel Commercial Steel Type B
Ptd Aluminum (.025 min) ASTM B-209 *

**Aluminum is only available with detachable baffle.*



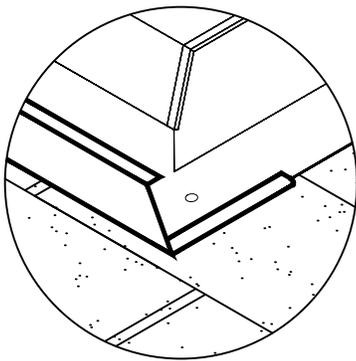
MILLENNIUM METALS, INC.

10200 EASTPORT ROAD JACKSONVILLE, FL 32218
904-358-8366 WATTS 1-877-358-7663 (ROOF)
FAX 904-358-8285

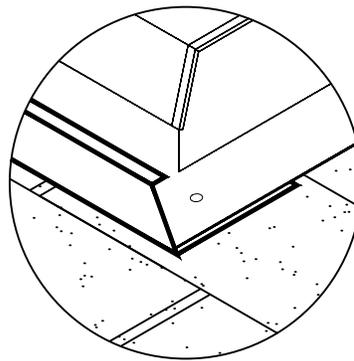


MMI OFF RIDGE VENT BAFFLE OPTIONS

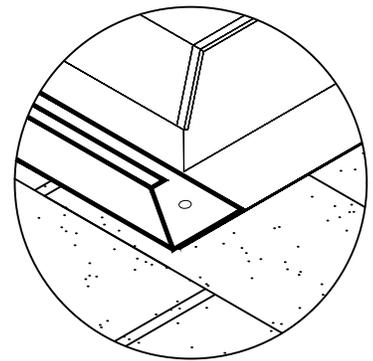
(BAFFLE FACE IS 3-1/4")



DETACHABLE BAFFLE:
SLIDE BAFFLE ONTO LOWER
ROOF VENT FLANGE AND
SECURE.



ATTACHED PERMANENT BAFFLE:
BAFFLE COMES ATTACHED TO
VENT. SECURE THROUGH VENT
AND BAFFLE



RETROFIT BAFFLE:
COAT BOTTOM FLANGE OF ROOF
VENT WITH URETHANE SEALANT.
PLACE BAFFLE ON URETHANE
SEALANT AND SECURE.

OFF RIDGE VENT

Section 4 Warranty



STANDARD PRODUCT^A LIMITED LIFETIME WARRANTY

on Owens Corning[®] Roofing Shingles and Components

THIS LIMITED LIFETIME WARRANTY INCLUDES LIMITATIONS ON ITS TRANSFERABILITY. THIS LIMITED LIFETIME WARRANTY GIVES THE ORIGINAL PURCHASER (the "Purchaser") SPECIFIC LEGAL RIGHTS, AND PURCHASER MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

FOR CANADA ONLY: THE TERMS IN THIS LIMITED LIFETIME WARRANTY, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT, OR MODIFY BY AND ARE IN ADDITION TO ANY PROVINCIAL LAWS.

INTRODUCTION

Thank you for your recent purchase of Roofing Shingles and Components manufactured by Owens Corning Roofing and Asphalt, LLC ("Owens Corning"). We believe we manufacture the highest quality and most attractive roofing shingles and components available anywhere, and that is why we stand behind them with one of the best warranties in the industry. If anything in this limited lifetime warranty is not clear, please call us at 1-800-ROOFING or visit our website at www.owenscorning.com/roofing.

WHO IS COVERED

To be entitled to the benefits of this Standard Product Limited Warranty: (1) Purchaser's property must be located in the United States or Canada and (2) Purchaser must be the original consumer purchaser (the property Owner, not the installer or contractor) of the roofing shingles and components.

WHAT IS COVERED

- **Roofing Shingles:** We warrant that Purchaser's Owens Corning[®] Roofing Shingles and Owens Corning[®] Hip & Ridge Shingles are free from any manufacturing defects that (1) materially affect their performance on Purchaser's roof during the TRU PROtection[®] period or that (2) cause leaks during the balance of the applicable warranty period after the TRU PROtection[®] coverage period has expired. To determine the length of the TRU PROtection[®] coverage period and the balance of the applicable warranty period, please see "**How Long Is Purchaser Covered**" and the "**Limited Lifetime Warranty Information Table**" at the end of this limited lifetime warranty.
- **Roofing Components:** Limited Lifetime Warranty coverage for Owens Corning[®] Hip & Ridge Shingles, including Berkshire[®], DecoRidge[®], DuraRidge[®], ImpactRidge[®], ProEdge[®], and RIZERidge[®] matches the corresponding roofing shingle. For all other Owens Corning roofing components, when Purchaser installs three (3) or more of the five (5) Owens Corning roofing components listed below (one product from each category where applicable) with any Owens Corning shingle, the warranty coverage for manufacturing defects and the coverage period will match the warranty of Purchaser's shingles. Please see "**How Long Is Purchaser Covered**" and the "**Limited Lifetime Warranty Information Table**" at the end of this limited lifetime warranty for warranty periods. If less than three (3) Owens Corning[®] components are used, these products will be warranted for the length of time as defined in their individual product warranties. See individual component limited lifetime warranties for more detail. Owens Corning roofing component categories:
 - a. Owens Corning[®] Hip & Ridge Shingles, including Berkshire[®], DecoRidge[®], DuraRidge[®], ImpactRidge[®], ProEdge[®], and RIZERidge[®].
 - b. Owens Corning[®] VentSure[®] products (intake vent or exhaust vent). If a VentSure[®] intake vent AND VentSure[®] exhaust vent are both used, this counts as one (1) of the three (3) requirements listed above. VentSure[®] off-ridge exhaust vents are excluded from this limited lifetime warranty.
 - c. Owens Corning[®] brand synthetic underlayment products, RhinoRoof[®] U20 roof underlayment, or Titanium[®] brand synthetic roof underlayment products. Installing a qualifying Owens Corning[®] Self-Adhered Ice & Water Barrier product covering the entire deck also meets this requirement and Section (e) below.
 - d. Owens Corning[®] Starter Shingle products; and
 - e. Owens Corning[®] WeatherLock[®], Titanium[®], or RhinoRoof[®] Self-Adhered Ice & Water Barrier products.

This limited lifetime warranty does not cover non-Owens Corning[®] roofing components, such as flashing, fasteners, pipe boots, and wood decking. This limited lifetime warranty applies only to those shingles purchased after January 1, 2023, and before the date a later limited lifetime warranty applicable to the shingles comes into effect.

HOW LONG IS PURCHASER COVERED

ALL IMPLIED WARRANTIES APPLICABLE TO PURCHASER ROOFING SHINGLES AND COMPONENTS ARE LIMITED IN DURATION TO THE TRU PROtection[®] COVERAGE PERIOD APPLICABLE TO SUCH PRODUCTS, AS PROVIDED BY THIS LIMITED LIFETIME WARRANTY, UNLESS A SHORTER PERIOD IS PERMITTED BY APPLICABLE LAW. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO PURCHASER.

1. **TRU PROTECTION[®] PERIOD:** From the installation of the shingles through the TRU PROtection[®] coverage period of this limited lifetime warranty, Owens Corning will compensate Purchaser to either repair, replace, or recover defective Owens Corning[®] Roofing Shingles and Components. The compensation provided by Owens Corning is limited to the cost of replacing Owens Corning[®] Roofing Shingles and Components and the labor directly required to repair, replace, or recover such defective Owens Corning[®] roofing products as reasonably determined by Owens Corning. Our compensation will not cover any non-Owens Corning[®] underlayment, metalwork, flashings, or other related work, and we will not cover the cost to remove or dispose of Purchaser's roofing materials. The TRU PROtection[®] coverage period does not apply to Wind or Algae coverage. Please see the "**What About Wind Resistance**" and "**What about Algae Resistance**" portions of this limited lifetime warranty for applicable coverage. Owens Corning reserves the right to arrange directly for the repair or replacement of Purchaser's products instead of compensating Purchaser directly. This compensation is limited as follows:
 - A. If Owens Corning decides to replace the shingles or components, Owens Corning will compensate Purchaser only for the cost of replacement Owens Corning[®] Shingles or Components and the labor directly required to replace the defective shingles, both as reasonably determined by Owens Corning.
 - B. If Owens Corning decides to repair or recover the shingles, Owens Corning will compensate Purchaser only for the cost of the labor directly required to repair or recover the defective shingles as reasonably determined by Owens Corning.
2. **PRORATED PERIOD:** Once the TRU PROtection[®] coverage period for the Owens Corning[®] roofing products purchased has expired, the prorated period will begin. During this prorated period, we will provide prorated compensation of the cost of the defective Owens Corning[®] products, but no labor or other costs will be covered during the prorated period, and we will take into account the number of full years of use that Purchaser has enjoyed from the original installation date through the date of Purchaser's claim, and reduce the amount of our compensation to Purchaser accordingly. We will prorate the amount of our compensation to Purchaser to adjust the number of years Purchaser has enjoyed from the original installation through the date of Purchaser's claim. For example: If Purchaser purchased a shingle with a Limited Lifetime Warranty and three (3) or more Owens Corning components and the Purchaser makes a claim in the 15th year of the warranty, we will not cover labor but our compensation to Purchaser will be 72% of the Owens Corning[®] Roofing Shingles and Components cost at the time of purchase. Further detail can be found on the "**Limited Lifetime^A Roofing Shingles and Components Proration^S Table.**"
3. **OTHER TYPES OF STRUCTURES:** The coverage for the Owens Corning[®] roofing products offered by this limited lifetime warranty depends on the structure of which the shingles are installed and the owner of the structure. Limited Lifetime coverage for all Owens Corning[®] Shingles applies only to single-family detached homes where the owner of the roof is the resident occupying the home.

In the instance of roofing products purchased or installed upon property owned by others, for example, corporations, governmental agencies, partnerships, trusts, religious organizations, schools, condominiums, homeowners' associations, or cooperative housing arrangements, or installed on any other structures (for example, on apartment buildings or any other type of building or premises not used by individual homeowners as their residence), the limited lifetime warranty period will be 40 years from the original installation date of the roofing shingles and components, and the TRU PROtection® coverage period will be five years. Further detail can be found on the **"Limited Lifetime[△] Roofing Shingles and Components Proration[§] Table."** Owens Corning reserves the right to arrange directly for the repair or replacement of Purchaser's products instead of compensating Purchaser directly.

Limited Lifetime[△] Shingle Proration[§] Table

STRUCTURE/ OWNER	TRU PROTECTION® PERIOD YEARS 1-10	PRORATED PERIOD YEARS 11-40	PRORATED PERIOD YEARS 41 AND BEYOND
Single-family detached home owned by individuals	100%++	80% reduced by 2% every year thereafter until year 40	20%
STRUCTURE/ OWNER	YEARS 1-5	YEARS 6-40	YEARS 41 AND BEYOND
Other types of structures	100%++	87.5% [§] reduced by 2.5% every year thereafter until year 40	No coverage

[△] For as long as Owner owns home.

[§] Proration is calculated annually, based on the original installation date. There are no partial year prorations.

++ Of costs covered under this limited lifetime warranty.

4. EXCEPTIONS

All of the Owens Corning Obligation of Compensation under this limited lifetime warranty (whether for repair, replacement, recovery, or refunding a prorated portion of the cost of the defective roofing products) are subject to the limitations provided by this limited lifetime warranty. Any replacement Owens Corning® Products will be warranted only for the remainder of the original warranty period. Owens Corning will not provide compensation for any underlayment, metalwork, flashings, or other related work. We will not compensate for the removal and replacement of solar panels or other rooftop equipment, and we will not compensate for the cost to remove or dispose of Purchaser's roofing shingles and components.

5. WHAT ABOUT WIND RESISTANCE

Owens Corning shingles and Hip & Ridge (the Shingle Products) contain asphalt sealant that requires direct warm sunlight for several days (Thermal Sealing) in order to seal properly. If Shingle Products are installed during a period of cool weather, they may not adequately seal until the season changes or the weather warms, and if Shingle Products never receive direct sunlight or are not exposed to adequate surface temperatures, they may never achieve Thermal Sealing. Prior to shingles achieving Thermal Sealing, Shingle Products are more vulnerable to blow-offs and wind damage. This is the fundamental nature of Shingle Products and not a manufacturing defect, and we are not responsible for any blow-offs or wind damage that might occur prior to Thermal Sealing having occurred. After Shingle Products have achieved Thermal Sealing, however, they will be covered under this limited lifetime warranty if they experience blow-offs or wind damage in winds (including gusts) up to the levels and for the period from the original installation date ("**Wind Warranty Period**") listed in the "**Limited Lifetime Warranty Information Table**" listed in the chart at the end of this warranty.

HOWEVER, THE COVERAGE AGAINST SHINGLE PRODUCT BLOW-OFFS OR WIND DAMAGE IS IN EFFECT FOR A PERIOD OF 15 YEARS FROM THE ORIGINAL DATE OF INSTALLATION. Owens Corning will be liable only for the reasonable cost of replacing blown-off Shingle Products (to include material and labor during the applicable TRU PROtection® warranty period) and the reasonable cost of manually sealing the unsealed Shingle Products remaining on the roof.

6. WHAT ABOUT ALGAE RESISTANCE

If the Shingle Products that Purchaser purchased were not specifically labeled as "**Algae Resistant**" (AR), then any discoloration caused by algae is not covered by this limited lifetime warranty as explained in the section "**What Is Not Covered.**" However, if Purchaser did purchase AR Shingle Products, they are covered for the period described in the "**Limited Lifetime Warranty Information Table**" at the end of this limited lifetime warranty following the date of installation ("**AR Warranty Period**") against brown-black staining caused by growth of cyanobacteria *Gloeocapsa magma* algae. To be eligible for 25-year AR coverage, Purchaser must use one of the following Owens Corning® Hip & Ridge Shingles: Berkshire®, DecoRidge®, DuraRidge®, ImpactRidge®, ProEdge®, or RIZERidge®. We do not cover the effects of other growth, such as mold, lichen, and green algae. If brown-black staining occurs during the AR Warranty Period, Purchaser will be entitled to the following remedy:

- a. **Non-Prorated Period** — From the installation of the shingles until ten (10) years after the date of installation, we will compensate Purchaser for the cost, including labor (such cost not to exceed the cost of the AR Shingle Products plus the cost of installation), as reasonably determined by Owens Corning, to repair, replace, or recover the affected AR Shingle Products. For purposes of this AR Shingle Products warranty, the term "repair" as used above refers to cleaning or otherwise removing any algae growth from affected AR Shingle Products. Decisions regarding whether Purchaser's AR Shingle Products should be repaired, replaced, or recovered will be made solely by Owens Corning.
- b. **Prorated Period** — Once the non-prorated coverage period for algae resistance (as described above) has expired, the prorated period will begin. During this prorated period, we will provide compensation limited to a prorated amount of the cost of the affected AR shingles. No labor or other costs will be covered during the prorated period, and we will take into account the number of full years of use that Purchaser has enjoyed from the original installation date through the date of Purchaser's claim, and reduce the amount of our compensation to Purchaser accordingly. For example: If Purchaser purchased a shingle with a 25-year AR warranty period, and Purchaser makes Purchaser's claim anytime in the 16th year of the warranty, our compensation to Purchaser will be the amount of the cost of the affected Owens Corning® AR Shingle Products reduced by 16/25ths of the cost at the time of purchase of the affected AR Shingle Products.
- c. ****If a qualifying Owens Corning® manufactured Hip & Ridge shingle is **not** used, the AR warranty period is reduced from 25 to 10 years and the non-prorated period will be 1 year.
- d. See "**Limited Lifetime Warranty Information Table**" below for applicable AR product coverage.

NOTE: In some coastal areas and/or areas with limited rainfall, copper released by algae-resistant shingles can cause excessive corrosion to aluminum gutters. In these regions, Owens Corning recommends using vinyl gutters and will not be liable for any damage that may result from using aluminum gutters with algae-resistant shingles.

TRANSFERABILITY OF THIS LIMITED LIFETIME WARRANTY (BASED ON ORIGINAL INSTALLATION DATE)

This limited lifetime warranty is not transferable except as follows: Purchaser may only transfer this limited lifetime warranty one time, anytime during the life of the limited lifetime warranty, to the purchasers of the structure on which the shingles are installed. For this limited lifetime warranty to transfer and the second Owner to obtain the benefits of this limited lifetime warranty, the second Owner must, within 60 days after the date of the real estate transfer, contact Owens Corning and submit together (1) proof of purchase of the Owens Corning® Roofing Shingles and Components and (2) the installation date and ownership history. We may be contacted by going to <https://www.owenscorning.com/en-us/roofing/warranty#manage-your-warranty> and click Transfer a Warranty, or by calling us at 1-800-Roofing.

1. If the transfer takes place within the TRU PROtection® Nonprorated period (see "**Limited Lifetime Warranty Information Table**"), the second Owner is entitled to the same coverage as the original Owner.
2. If the transfer occurs after the TRU PROtection® Nonprorated period (see "**Limited Lifetime Warranty Information Table**"), the balance of this limited lifetime warranty shall be reduced to a 2-year period after the date of ownership change.

If there is a manufacturing defect that causes leaks during this 2-year period, our compensation to the second Owner will be based only on the reasonable cost of replacement of the Owens Corning® Roofing Shingles and Components reduced by the amount of use the second Owner and the original Owner have enjoyed from the original installation date through the date of claim.

3. The AR Warranty Period and Wind Warranty Period are fully transferable. The second Owner will receive the balance of the coverage outlined in the **“Limited Lifetime Warranty Information Table”** based upon the original installation date.

WHAT IS NOT COVERED

Our warranty does not cover damage to the Owens Corning® Roofing Shingles and Components products due to any cause not expressly covered in this limited lifetime warranty. After our roofing products leave our manufacturing facilities, they are subject to conditions and handling beyond our control that could affect their performance. This limited lifetime warranty does not cover any problems with non-defective roofing products caused by conditions or handling beyond our control. Some examples of conditions not covered by this limited lifetime warranty include:

1. Acts of God, such as hail, strong storms or winds (including gusts) over the maximum wind speed listed in the **“Limited Lifetime Warranty Information Table”** at the end of this limited lifetime warranty, ice damming above the area covered by leak barriers or flashings, or snow or water infiltration through exhaust vents.
2. Roof damage or leaks caused by pre-existing conditions, underlying roofing materials, underlying structural failures, settlement, or any defective areas on or near the roof that are not part of the Roofing System. Examples include but are not limited to chimneys with loose or cracked mortar, damaged siding, faulty counterflashing, or improperly designed or installed gutter or downspout systems.
3. Foot traffic on roof or damage caused by objects (e.g., tree branches) falling on roof.
4. Improper or faulty installation of roofing products — installation must be in accordance with our written installation instructions and comply with local building codes.
5. Shading, or variations in the color of Owens Corning® Shingle Products or discoloration caused by algae, fungi, lichen, or cyanobacteria (unless covered under the section **“What About Algae Resistance”**).
6. Damage caused by improper or inadequate roof ventilation or roof drainage, unvented attics, or enclosed roof rafter assemblies.
7. Damage caused by, or the cost to repair or replace, any non-Owens Corning® Products, including but not limited to metal work, counterflashing, failed and/or corroded roof nails, or pipe boots that allow water to enter the structure or Roofing System.
8. Damage to the shingles caused by alterations made after completion of application, including structural changes, equipment or solar panel installation, power washing, painting, the application of cleaning solutions not in accordance with our algae removal instructions, coatings, or other modifications.
9. Any damage due to debris, resins, or drippings from foliage.
10. Improper storage, handling, or other conditions beyond our control.
11. Any costs that incurred that are not authorized in advance by Owens Corning.

REPLACEMENT SHINGLE VARIATION

As a result of our ongoing efforts to improve and enhance our roofing products, we must reserve the right to discontinue or modify our shingles and component products, including their colors. We are not liable to Purchaser if Purchaser makes a warranty claim in the future and any replacement roofing products Purchaser receives vary in color either because of normal weathering or changes in our product line. Purchaser should understand that, if we replace any of Purchaser's shingles or component products under this limited lifetime warranty, we reserve the right to provide Purchaser with substitute shingles or component products that are comparable only in quality and price to Purchaser's original shingle or component products.

COMPENSATION

Under the terms of this limited lifetime warranty, the manner of compensation is at the sole discretion of Owens Corning and may be arranged directly by Owens Corning or issued in the form of cash settlement and/or material credit for Owens Corning® Products to an existing supplier of Owens Corning® Roofing materials. All costs must be pre-approved by Owens Corning.

CLAIMS PROCESS & RIGHT OF INSPECTION

To make a claim under this limited lifetime warranty, Purchaser must do so within 30 days after Purchaser discovers the problem. To fully evaluate Purchaser's claim, we may ask Purchaser to provide, at Purchaser expense, pictures of Purchaser's shingles or shingle samples for us to test. Purchaser must do so in order to be eligible to make a claim under this limited lifetime warranty. If Purchaser repairs or replaces Owens Corning® Products before Owens Corning has made a determination on Purchaser's claim, the Purchaser's claim may be denied. Owens Corning shall have a reasonable time after notification of a claim to inspect the roof. If requested by Owens Corning, the Purchaser shall provide Owens Corning with reasonable access to the roof, during normal business hours, for the purpose of conducting an inspection of the roofing products.

NO MODIFICATIONS TO THIS LIMITED LIFETIME WARRANTY

The terms of this limited lifetime warranty may not be waived or modified. This limited lifetime warranty represents the entire agreement between the parties and replaces all other communications, warranties, representations, and guarantees.

MANDATORY ARBITRATION

To the extent permitted by applicable law, Owens Corning and Purchaser agree to arbitrate all disputes and claims arising out of or relating to this limited lifetime warranty or Owens Corning® Shingles (“Dispute”). This limited lifetime warranty evidences a transaction in interstate commerce, and the Federal Arbitration Act governs the interpretation and enforcement of this provision. A party who intends to seek arbitration must first send to the other, by certified mail, a written notice of intent to arbitrate (“Notice”). The Notice to Owens Corning should be addressed to: One Owens Corning Parkway, Toledo, OH 43659 (“Arbitration Notice Address”). The Notice must (a) describe the nature and basis of the claim or dispute and (b) set forth the specific relief sought (“Demand”). If the parties do not reach an agreement to resolve the claim within 30 days after Notice is received, Purchaser or Owens Corning may commence an arbitration proceeding. All issues are for the arbitrator to decide, including the scope of this arbitration clause, but the arbitrator is bound by the terms of this limited lifetime warranty. The arbitration shall be governed by the Commercial Dispute Resolution Procedures and the Supplementary Procedures for Consumer Related Disputes (collectively, “AAA Rules”) of the American Arbitration Association (“AAA”), as modified by this limited lifetime warranty, and shall be administered by the AAA.

PURCHASER AND OWENS CORNING HEREBY WAIVE THE RIGHT TO A TRIAL BY JURY.

The arbitrator may award injunctive relief only in favor of the individual party seeking relief and only to the extent necessary to provide relief warranted by that party's individual claim.

PURCHASER AND OWENS CORNING MAY BRING CLAIMS AGAINST THE OTHER ONLY IN EACH PARTY'S INDIVIDUAL CAPACITY, AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY PURPORTED CLASS OR REPRESENTATIVE PROCEEDING.

Further, Purchaser agrees that the arbitrator may not consolidate proceedings of more than one person's claims and may not otherwise preside over any form of a representative or class proceeding.

GOVERNING LAW AND FORUM

This limited lifetime warranty and all Disputes are governed by United States Federal laws and laws of Ohio. Subject to the **“Arbitration”** provision in this limited lifetime warranty, if there are any Disputes that cannot be arbitrated, then the parties consent to the exclusive jurisdiction and venue of the state and federal courts in Ohio with respect to such Disputes.

SAVINGS AND SEVERABILITY

To the extent that this limited lifetime warranty is inconsistent with applicable law, this limited lifetime warranty is hereby modified to be consistent with such applicable law. If an arbitrator or court determines that any term in this limited lifetime warranty is illegal or unenforceable, the parties intend for the arbitrator or court to interpret or modify this limited lifetime warranty to the effect of the original intent of the parties as closely as possible while rendering the term and this limited lifetime warranty fully legal and enforceable. If a term in this limited lifetime warranty cannot be rendered legal and enforceable accordingly, the parties intend for the arbitrator or court to sever the illegal or unenforceable term from this limited lifetime warranty, leaving the remainder of this limited lifetime warranty enforceable.

LIMITATIONS

NO DISPUTE MAY BE BROUGHT LATER THAN 1 YEAR AFTER ANY CAUSE OF ACTION HAS ACCRUED, AFTER WHICH ALL DISPUTES ARE FOREVER BARRED.

THIS LIMITED LIFETIME WARRANTY IS PURCHASER'S EXCLUSIVE LIMITED LIFETIME WARRANTY FROM OWENS CORNING AND REPRESENTS THE SOLE REMEDY TO ANY OWNER OF OWENS CORNING® ROOFING SHINGLES AND COMPONENTS. OWENS CORNING MAKES NO OTHER REPRESENTATIONS, WARRANTIES, OR GUARANTEES OF ANY KIND OTHER THAN THOSE STATED EXPLICITLY IN THIS LIMITED LIFETIME WARRANTY.

PURCHASER'S REMEDY FOR DEFECTIVE SHINGLES OR OWENS CORNING® ROOFING SHINGLES AND COMPONENTS IS FULLY DESCRIBED IN THE SECTION, "HOW LONG IS PURCHASER COVERED." PURCHASER IS NOT ENTITLED TO ANYTHING MORE THAN WHAT IS DESCRIBED IN THAT SECTION. OWENS CORNING HAS NO REASON TO KNOW ANY PARTICULAR PURPOSE FOR WHICH PURCHASER IS BUYING ROOFING SHINGLES OR COMPONENTS.

OWENS CORNING IS NOT RESPONSIBLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITIVE, OR OTHER DAMAGES OF ANY KIND, INCLUDING DAMAGE TO PURCHASER'S STRUCTURE OR TO PURCHASER'S STRUCTURE'S CONTENTS, WHETHER FOR BREACH OF THIS LIMITED LIFETIME WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHER CLAIMS DERIVED IN TORT OR FOR ANY OTHER. SOME STATES OR PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY.

FOR CANADA ONLY – The terms in this limited lifetime warranty, except to the extent lawfully permitted, do not exclude, restrict, or modify but are in addition to any provincial laws.

LIMITED LIFETIME WARRANTY INFORMATION TABLE

PRODUCT NAME	WARRANTY* LENGTH	TRU PROTECTION® COVERAGE PERIOD	WIND WARRANTY PROTECTION	WIND WARRANTY PERIOD	AR ¹ WARRANTY PERIOD
Berkshire®	Limited Lifetime [△]	10 Years	130 MPH	15 Years	25 Years****
Woodmoor®	Limited Lifetime [△]	10 Years	110/130 MPH ^{‡‡}	15 Years	25 Years****
Woodcrest®	Limited Lifetime [△]	10 Years	110/130 MPH ^{‡‡}	15 Years	25 Years****
Duration® Series ^{††}	Limited Lifetime [△]	10 Years	130 MPH	15 Years	25 Years****
Oakridge® ^{†††}	Limited Lifetime [△]	10 Years	110/130 MPH ^{***}	15 Years	25 Years****
Supreme® ²	25 Years	5 Years	60 MPH	5 Years	10 Years

△ For as long as Owner owns home.
 ^ Excludes non-Owens Corning roofing products, such as flashing, fasteners, pipe boots, and wood decking.
 1 AR is available regionally. Visit www.owenscorning.com/roofing for availability in zip code.
 2 Supreme shingles used as hip & ridge and/or starter reduce the wind warranty to 60 mph for those areas and the other components to their individual warranty.
 * Applies to Owens Corning® Shingles and Owens Corning Hip & Ridge Shingles. Three (3) qualifying components must be installed in addition to the shingles in order for all other Owens Corning components to qualify for this limited lifetime warranty.
 †† Includes TruDefinition® Duration MAX®, TruDefinition® Duration® COOL Plus, TruDefinition® Duration® COOL, TruDefinition® Duration® Designer, TruDefinition® Duration FLEX®, TruDefinition® Duration STORM®, Duration® Premium, and TruDefinition® Duration® Shingles.
 ††† Includes TruDefinition® Oakridge® Shingles.
 ‡‡ 130 MPH is applicable only with Owens Corning® Starter Shingle product application along eaves and rakes in accordance with installation instructions. Refer to installation instructions for complete details.
 ** TruDefinition® Duration FLEX® and TruDefinition® Duration STORM® Shingles require ImpactRidge® Hip & Ridge Shingles to complete UL 2218, Class IV impact-resistant roof system.
 *** 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.
 **** 25-year AR coverage requires the use of Owens Corning® Berkshire®, DecoRidge®, DuraRidge®, ImpactRidge®, ProEdge®, or RIZERidge®, Hip & Ridge Shingles. If a qualifying Owens Corning® manufactured ridge product is **not** used, the AR warranty period is reduced from 25 to 10 years, and the non-prorated period will be 1 year.

WARRANTY REGISTRATION & TRANSFER INFORMATION

TO REGISTER THIS LIMITED LIFETIME WARRANTY:

Visit our website at: www.owenscorning.com/roofing/warranty/

The following information is required for registration:

Owens Corning® Limited Lifetime Shingle/color name installed _____

Number of squares installed _____

Other Owens Corning® Roofing Shingles and Components Installed:

	yes	no	don't know
Owens Corning® Hip & Ridge Shingles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VentSure® Ventilation Products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Owens Corning® brand, RhinoRoof® U20 or Titanium® brand Underlayment Products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Owens Corning® Starter Shingle Products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Owens Corning® WeatherLock®, Titanium®, or RhinoRoof® Self-Adhered Ice & Water Barrier Products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Owens Corning® Products _____

Original Installation Date _____

Original Purchaser's Name _____

Address of Property _____

Note: Please retain proof of purchase and installation date with Purchaser's important records in the event that Purchaser chooses to transfer this limited lifetime warranty in the future, or upload these documents as Purchaser registers this limited lifetime warranty online.

TO TRANSFER THIS LIMITED LIFETIME WARRANTY:

See **TRANSFERABILITY OF THIS LIMITED LIFETIME WARRANTY** for exceptions.

Contact 1-800-ROOFING

For this limited lifetime warranty to be transferred, the second Owner must contact Owens Corning within sixty (60) days after the date of the real estate transfer to obtain the benefits of this limited lifetime warranty. We may be contacted by going to <https://www.owenscorning.com/en-us/roofing/warranty#manage-your-warranty> and click Transfer a Warranty, or by calling us at 1-800-Roofing. The following will be required:

1. Proof of purchase of the Owens Corning® Total Protection Roofing System®[^] and
2. The installation date and ownership history



OWENS CORNING ROOFING AND ASPHALT, LLC
 ONE OWENS CORNING PARKWAY
 TOLEDO, OH 43659 USA
1-800-GET-PINK®
www.owenscorning.com/roofing



LIMITED INSTALLATION WARRANTY

OWNER:

ADDRESS:

TERM: 2 YEARS

START/END DATE:

ROOF SYSTEM COVERED:

Collis Roofing, Inc. ("Contractor") hereby warrants, subject to the terms and conditions set forth herein, that for a period of **2 years** from the date of completion, Contractor will, free of charge to the Owner, make repairs to leaks in the roofing and flashing installed by Contractor resulting from defects in workmanship applied by or through Contractor. Contractor shall, within the warranty period and during normal working hours, inspect and furnish the labor and materials to repair leaks covered under this Warranty at no cost to Owner.

In the event of a roof leak, the Owner shall notify Contractor promptly and send written confirming notice to Contractor no later than within fifteen (15) days of occurrence of the leak. A letter should be sent to: Collis Roofing, P.O. Box 520668, Longwood, Florida 32752, stating the nature or location of the claimed defect and the street address and telephone number where the Customer may be reached, together with the time the Customer will be available.

This Limited Warranty covers leaks due to Contractor's workmanship. It does not cover leaks or damage caused by such items as:

- a. Lightning, fire, wind storms, hurricanes, tornados, hail, thermal shock, acid rain, natural disasters or acts of God.
- b. Abuse, vandalism, accident, installation of equipment, personnel on the roof, lack of maintenance or damage to the roof caused by others.
- c. Settlement, cracking, dry rot, or movement of the deck or material underlying the work done by Contractor or leakage caused by other building components, including damage due to expansion and contraction, water entry through masonry, stucco, exterior skin or points other than the roofing installed by Contractor.
- d. Penetrations or installations on or through the roof such as satellite dishes unless performed by Contractor.
- e. Misuse of the roof including, but not limited to, using the roof for purposes such as storage, sundecks or walkways.
- f. Ponding of water and damage caused by termites, insects, birds or animals.
- g. Penetration by nails from the underneath side of the roof.

This Warranty is intended solely for the benefit of the Owner named above and is not transferable or assignable.

This Warranty shall not be effective unless Contractor has received full payment for installation, repairs, or service in connection with the roof covered by this Warranty. If Contractor is called upon to investigate a reported leak and the condition is determined not to be covered under this warranty, Owner will compensate Contractor for time and repairs, if any, expended by Contractor.

Contractor's obligation to make repairs to leaks resulting from a defect in its workmanship during the term of this Warranty is its sole and exclusive obligation to Owner and Owner's exclusive remedy against Contractor. Upon expiration of the warranty, Contractor shall have no further obligation. Material warranties can be obtained from the manufacturer of the material.

THERE ARE NO WARRANTIES FROM CONTRACTOR THAT EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN. IF ANY IMPLIED WARRANTIES ARISE BY OPERATION OF LAW, THEY ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ALL OTHER WARRANTIES AND SPECIFICALLY THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED AND DISCLAIMED. Contractor shall in no event be liable for incidental or consequential damages or injuries including alleged damage to the building, or any components or contents thereof, mold, mildew, loss of use, loss of rental income or damage to personal property or personal injury.

Any claim alleging any breach of this Warranty or any other claim against Contractor shall be resolved through arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association.

Collis Roofing, Inc.

By: _____

President: J. Douglas Lanier, Collis Roofing, Inc.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.
KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 14. TRANSPORT INFORMATION