



**NEMO|etc.**

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ENGINEER

EVALUATE

TEST

CONSULT

**EVALUATION REPORT BY FLORIDA P.E.**

**Owens Corning**

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

**Evaluation Report O37940.02.12-R12**

**FL10674-R17**

**Date of Issuance: 02/06/2012**

**Revision 12: 08/12/2022**

**SCOPE:**

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **7<sup>th</sup> Edition (2020) Florida Building Code** sections noted herein.

**DESCRIPTION: Owens Corning Asphalt Roof Shingles**

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

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

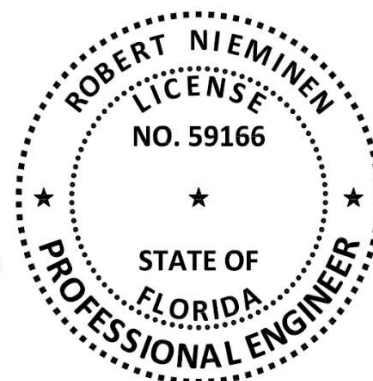
**ADVERTISEMENT:** The Florida Product Approval Number (FL#) preceded by the words "Nemo P.E. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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

This Evaluation Report consists of pages 1 through 10.

Prepared by: **Digitally signed  
by Robert  
Nieminen  
Date: 2022.08.12  
'14:48:42 -04'00**

This item has been digitally signed and sealed by Robert Nieminen, P.E.  
Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.  
Robert Nieminen, Florida P.E. 59166, FBC ANE1983  
NEMO ETC, LLC, Florida CA #32455



**CERTIFICATION OF INDEPENDENCE:**

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

**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, have demonstrated compliance with the following sections of the **7<sup>th</sup> Edition (2020) Florida Building Code** through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

| SECTION                | PROPERTY            | STANDARD   | YEAR |
|------------------------|---------------------|------------|------|
| 1507.2.4, R905.2.3     | Physical Properties | ASTM D1970 | 2015 |
| 1507.2.5, R905.2.4     | Material standard   | ASTM D3462 | 2010 |
| 1507.2.7.1, R905.2.6.1 | Wind Resistance     | ASTM D3161 | 2016 |
| 1507.2.7.1, R905.2.6.1 | Wind Resistance     | ASTM D7158 | 2019 |

**3. REFERENCES:**

| ENTITY           | EXAMINATION                   | REFERENCE             | DATE       |
|------------------|-------------------------------|-----------------------|------------|
| Owens Corning    | Equivalency                   | Declaration           | 08/06/2019 |
| PRI (TST5878)    | ASTM D1970                    | OCF-382-02-01         | 10/24/2017 |
| UL LLC (CER9626) | Physicals and Wind Resistance | File R2453, Vol. 3    | 02/15/2007 |
| UL LLC (CER9626) | Physicals and Wind Resistance | 20120516-R2453        | 05/16/2012 |
| UL LLC (TST9628) | Physical Properties           | 06CA20263             | 04/18/2006 |
| UL LLC (TST9628) | Wind Resistance               | 11CA34308             | 02/18/2012 |
| UL LLC (TST9628) | Physicals and Wind Resistance | 4786093137            | 02/01/2014 |
| UL LLC (TST9628) | Wind Resistance               | 4786126532            | 02/10/2014 |
| UL LLC (TST9628) | Physical Properties           | Classification letter | 02/13/2014 |
| UL LLC (TST9628) | Physical Properties           | Classification letter | 10/02/2015 |
| PRI (TST5878)    | ASTM D3462                    | 1378T0277             | 05/13/2022 |
| PRI (TST5878)    | ASTM D3161                    | 1378T0278             | 05/13/2022 |
| PRI (TST5878)    | ASTM D7158                    | 1378T0279             | 08/12/2022 |
| PRI (QUA9110)    | Quality Control               | Service Confirmation  | 04/05/2020 |
| PRI (QUA9110)    | Quality Control               | Florida BCIS          | Current    |

**4. PRODUCT DESCRIPTION:**
**TABLE 1: ASPHALT SHINGLE COMPONENTS**

| TYPE                           | PRODUCT                | PLANT(s)                                  | MATERIAL STANDARD | DESCRIPTION                                                                         |
|--------------------------------|------------------------|-------------------------------------------|-------------------|-------------------------------------------------------------------------------------|
| ACCESSORY<br>STARTER<br>STRIPS | Starter Strip Shingle  | H-TX, OR                                  | ASTM D3462        | starter strips for asphalt roof shingles                                            |
|                                | Starter Strip Plus     | MN, OR                                    |                   |                                                                                     |
|                                | SRS TopShield Starter  | MN, OR                                    |                   |                                                                                     |
|                                | Starter Shingle Roll   | NH                                        | ASTM D1970        | mineral-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen starter |
| ASPHALT<br>SHINGLES            | Supreme®               | GA, CA, CO, I-TX, NJ, OH, TN, OR, IL      | ASTM D3462        | fiberglass reinforced 3-tab asphalt roof shingles                                   |
|                                | Berkshire®             | MN                                        | ASTM D3462        | fiberglass reinforced, 4-tab asphalt roof shingles                                  |
|                                | Duration® Premium      | CA, OR                                    | ASTM D3462        | fiberglass reinforced, laminated asphalt roof shingles                              |
|                                | Duration® Premium COOL | CA                                        |                   |                                                                                     |
|                                | Oakridge®              | GA, IN, CA, CO, H-TX, I-TX, FL, NJ OH, TN |                   |                                                                                     |

**TABLE 1: ASPHALT SHINGLE COMPONENTS**

| TYPE                   | PRODUCT                                            | PLANT(S)                                         | MATERIAL STANDARD | DESCRIPTION                                                |
|------------------------|----------------------------------------------------|--------------------------------------------------|-------------------|------------------------------------------------------------|
| ASPHALT SHINGLES       | TruDefinition® Duration®                           | IN, CA, CO, I-TX, FL, NJ, OH, MN, OR, GA, IL, TN | ASTM D3462        | fiberglass reinforced, laminated asphalt roof shingles     |
|                        | TruDefinition® Duration® Designer Color Collection | IN, CA, CO, I-TX, FL, NJ, OH, MN, OR, GA, IL, TN |                   |                                                            |
|                        | TruDefinition® Duration STORM®                     | TN                                               |                   |                                                            |
|                        | TruDefinition® Oakridge®                           | H-TX, I-TX                                       |                   |                                                            |
|                        | WeatherGuard® HP                                   | TN                                               |                   |                                                            |
| HIP AND RIDGE SHINGLES | Berkshire® Hip and Ridge Shingles with Sealant     | MN                                               | ASTM D3462        | fiberglass reinforced, hip and ridge asphalt roof shingles |
|                        | DuraRidge® Hip and Ridge Shingles with Sealant     | MN                                               |                   |                                                            |
|                        | ProEdge®                                           | GA, CA, OH, OR                                   |                   |                                                            |
|                        | WeatherGuard® HP Hip and Ridge Shingles            | TN                                               |                   |                                                            |

## 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

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

**TABLE 2A: WIND CLASSIFICATIONS, ASPHALT SHINGLES**

| PRODUCT                                            | FBC TABLE 1507.2.7.1 OR R905.2.6.1             |
|----------------------------------------------------|------------------------------------------------|
| Supreme®                                           | ASTM D3161, Class F and<br>ASTM D7158, Class H |
| Berkshire®                                         |                                                |
| Duration® Premium                                  |                                                |
| Duration® Premium COOL                             |                                                |
| TruDefinition® Duration®                           |                                                |
| TruDefinition® Duration® Designer Color Collection |                                                |
| TruDefinition® Duration STORM®                     |                                                |
| Oakridge®                                          |                                                |
| TruDefinition® Oakridge®                           |                                                |
| WeatherGuard® HP                                   |                                                |

#### 5.5.1 Classification by ASTM D7158:

ASTM D7158, Class H applies only to **exposure category B or C** and a **building height of 60 feet or less**. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.

| TABLE 2B: WIND CLASSIFICATIONS, STARTER STRIPS AND HIP & RIDGE |                                                |                                    |
|----------------------------------------------------------------|------------------------------------------------|------------------------------------|
| TYPE                                                           | PRODUCT                                        | FBC TABLE 1507.2.7.1 OR R905.2.6.1 |
| <b>Starter Strips</b>                                          | Starter Strip Shingle                          | ASTM D3161, Class F                |
|                                                                | Starter Strip Plus                             |                                    |
|                                                                | SRS TopShield Starter                          |                                    |
| <b>Hip &amp; Ridge Shingles</b>                                | Berkshire® Hip and Ridge Shingles with Sealant | ASTM D3161, Class F                |
|                                                                | DuraRidge® Hip and Ridge Shingles with Sealant |                                    |
|                                                                | ProEdge®                                       |                                    |
|                                                                | WeatherGuard® HP Hip and Ridge Shingles        |                                    |

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

## 6. INSTALLATION:

### 6.1 GENERAL:

- 6.1.1 Roof deck, slope, underlayment and fasteners shall comply with FBC 1507.2 / R905.2 and the shingle manufacturer's minimum requirements.
- 6.1.2 Underlayment shall be acceptable to the shingle manufacturer and shall hold current Florida Statewide Product Approval, or be Locally Approved per Rule 61G20-3, per FBC Sections 1507.2.3, 1507.2.4 or R905.2.3.
- 6.1.3 Fasteners shall be in accordance with the shingle manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.
- 6.1.4 Owens Corning asphalt shingles are acceptable for use in reroof (tear-off) or recover applications, subject to the limitations set forth in FBC Section 1511 or R908 and published installation instructions.

### 6.2 ACCESSORY STARTERS:

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

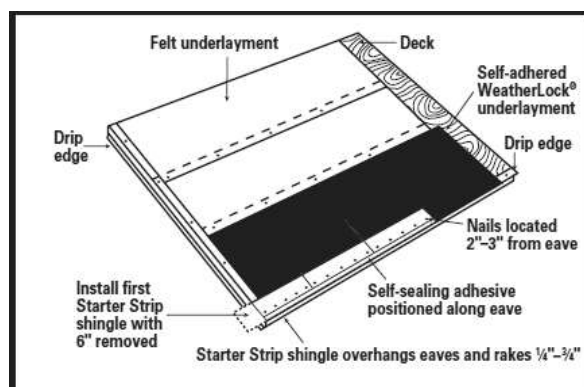


Figure 1: Minimum Nailing, Starter Strip

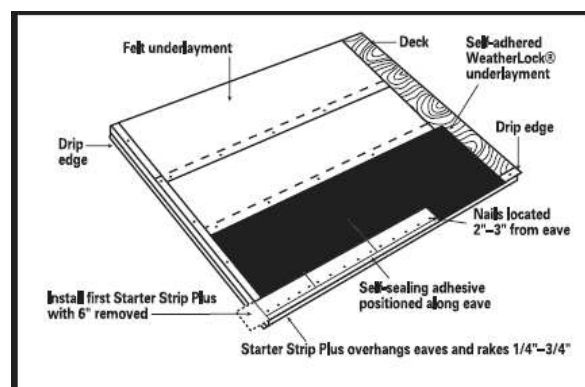


Figure 2: Minimum Nailing, Starter Strip Plus

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

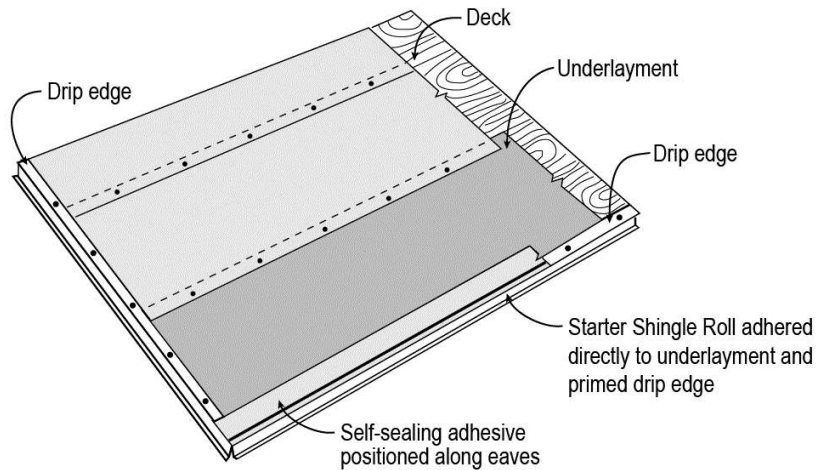


Figure 3: Starter Shingle Roll

### 6.3 ASPHALT SHINGLES:

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

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

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.

#### 6.3.1.1 Supreme:

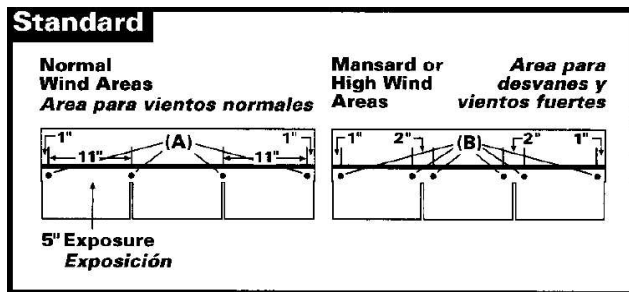


Figure 4: Minimum Nailing, Supreme  
(Standard Size)

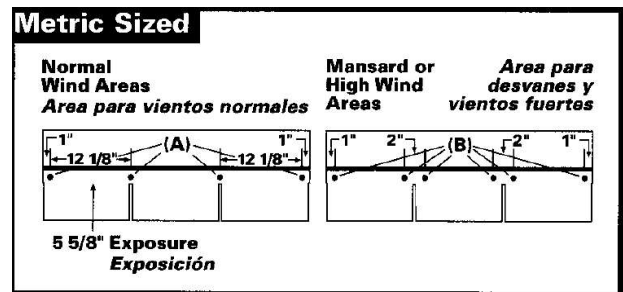


Figure 5: Minimum Nailing, Supreme  
(Metric Size)



6.3.1.2 **Berkshire®:**

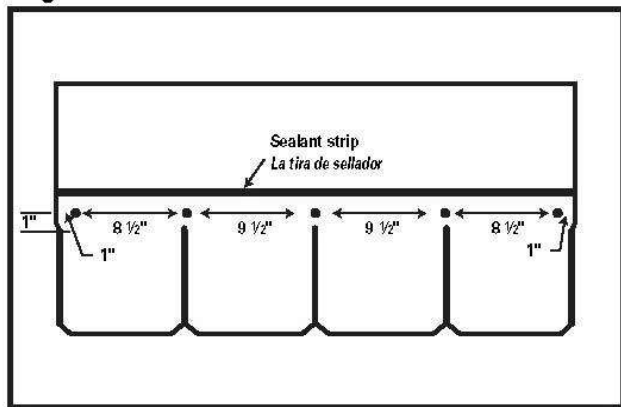


Figure 6: 5-Nail Pattern, Berkshire

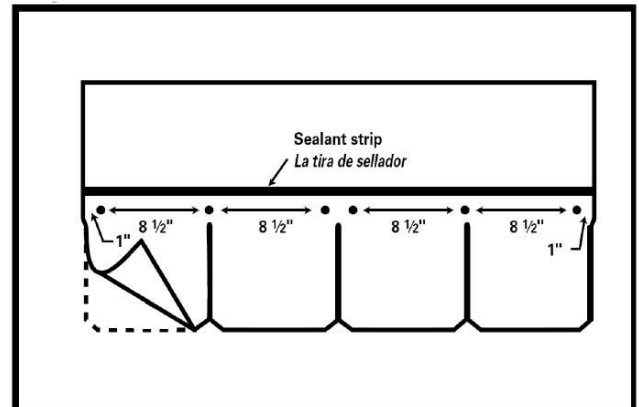


Figure 7: 6-Nail Pattern, Berkshire

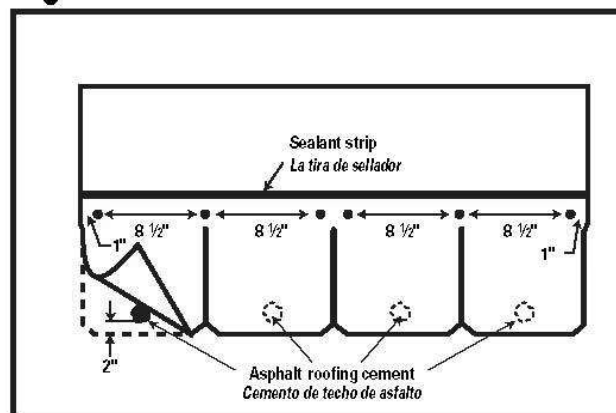


Figure 8: Mansard or Steep Slope Pattern, Berkshire



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

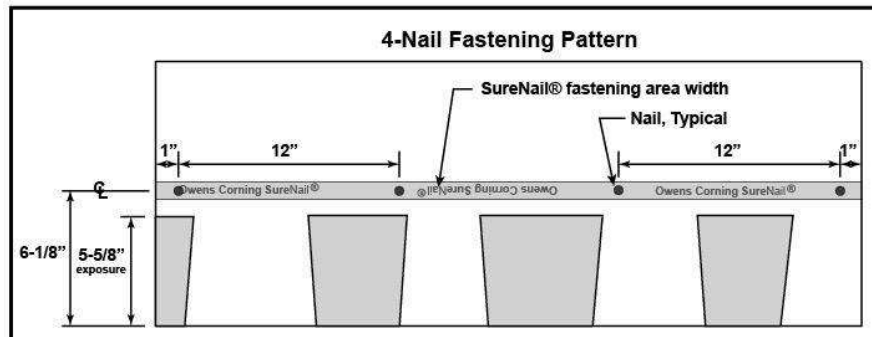


Figure 9: Standard 4-Nail Pattern, Duration

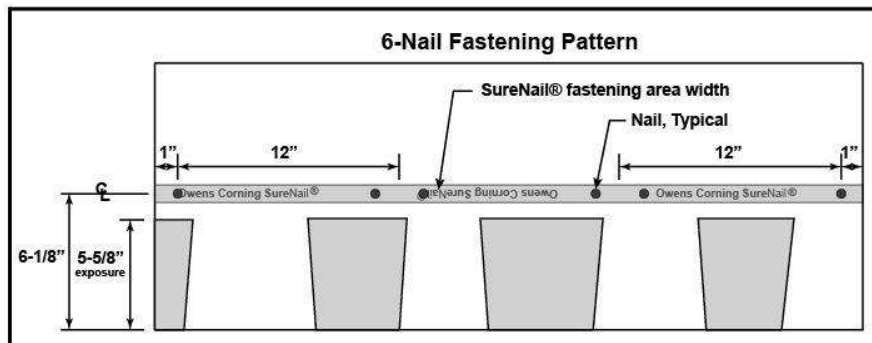


Figure 10: 6-Nail Pattern, Duration

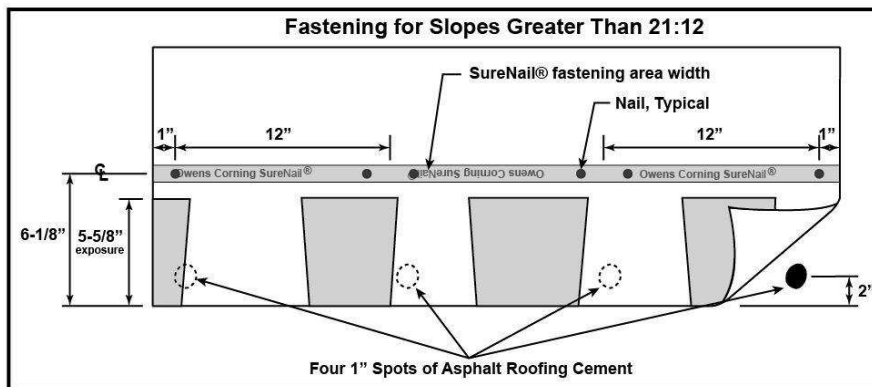


Figure 11: Mansard or Steep Slope Pattern, Duration



6.3.1.4 **Oakridge® and TruDefinition® Oakridge®:**

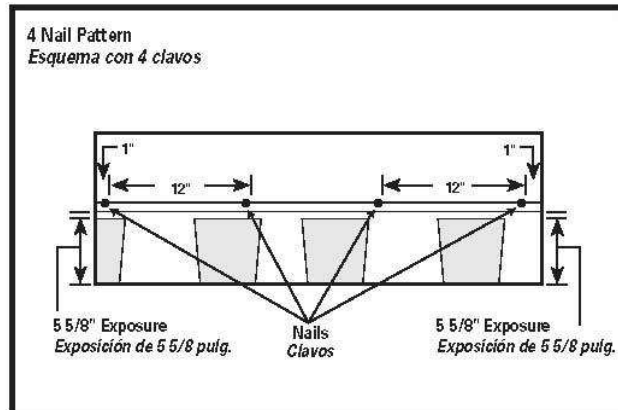


Figure 12: Standard 4-Nail Pattern, Oakridge

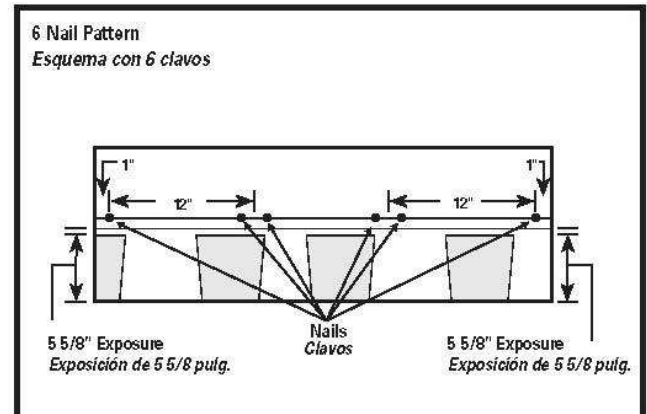


Figure 13: 6-Nail Pattern, Oakridge

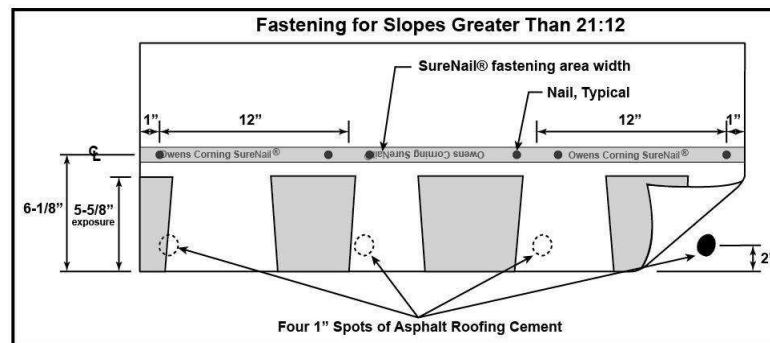


Figure 14: Mansard or Steep-Slope Pattern, Oakridge

6.3.1.5 **WeatherGuard® HP:**

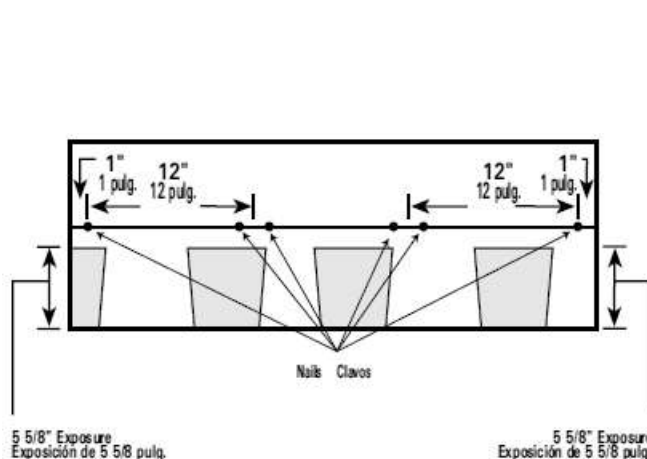


Figure 15: 6-Nail Pattern, WeatherGuard HP

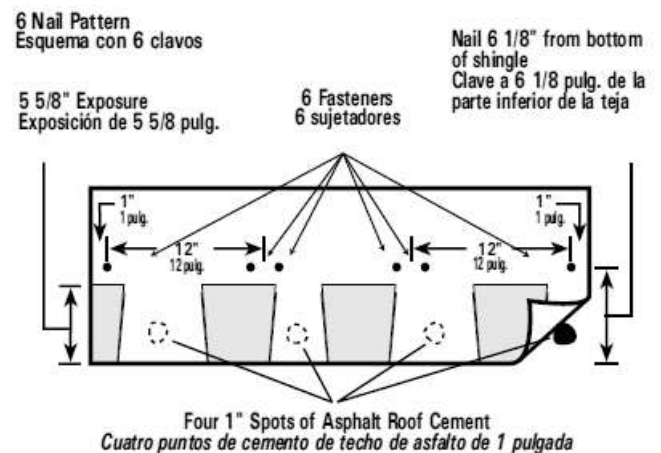


Figure 16: Mansard or Steep-Slope Pattern, WeatherGuard HP

#### 6.4 HIP AND RIDGE SHINGLES:

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

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

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

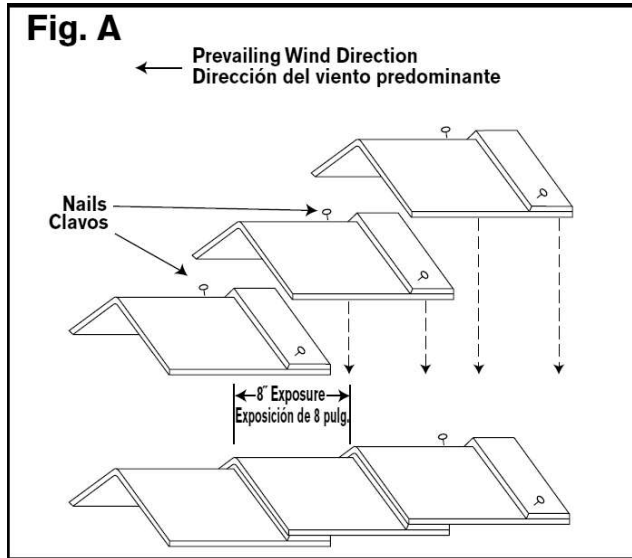


Figure 17: Isometric View, Berkshire and DuraRidge

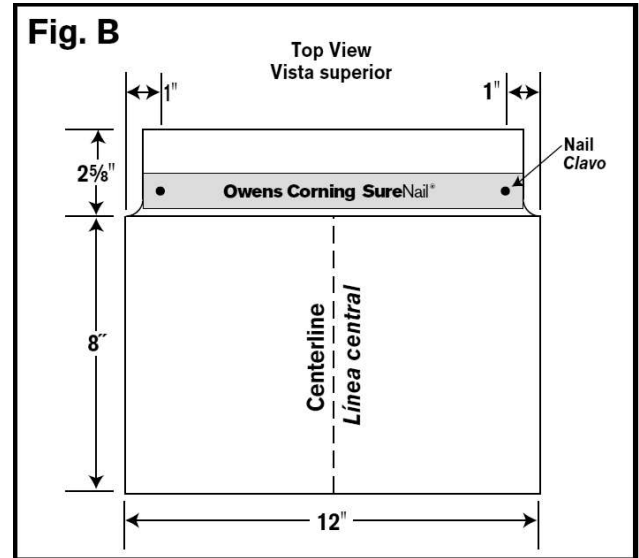


Figure 18: Plan View, Berkshire and DuraRidge

##### 6.4.1.2 WeatherGuard® HP Hip and Ridge Shingles:

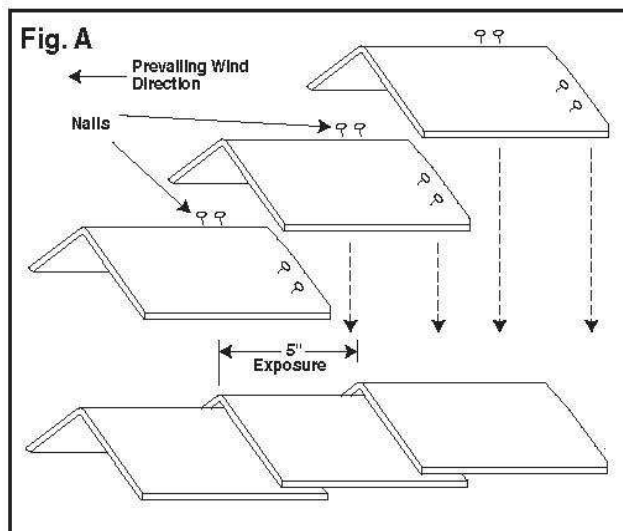


Figure 19: Isometric View, WeatherGuard HP Hip and Ridge

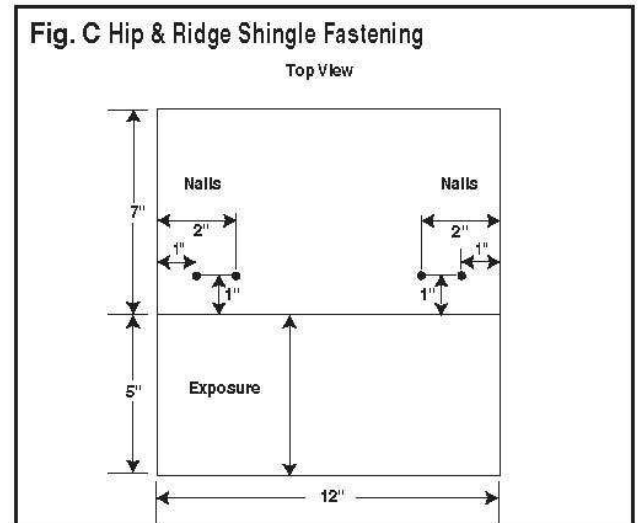


Figure 20: Plan View, WeatherGuard HP Hip and Ridge

6.4.1.3 **ProEdge®:**

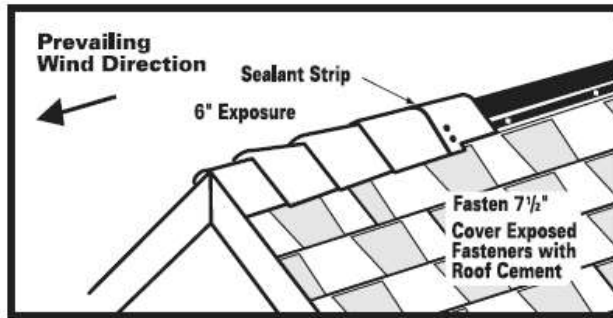


Figure 21: Isometric View, ProEdge

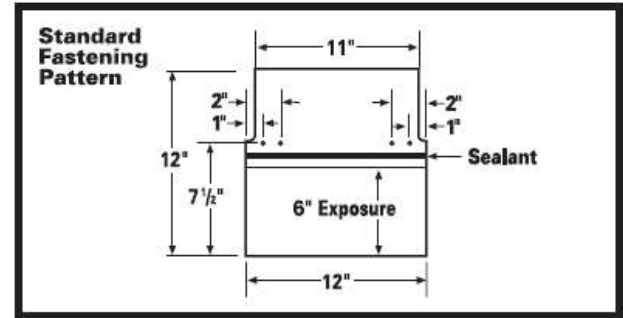


Figure 22: Plan View, ProEdge

**7. BUILDING PERMIT REQUIREMENTS:**

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

**8. MANUFACTURING PLANTS:**

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

**9. QUALITY ASSURANCE ENTITY:**

PRI Construction Materials Technologies, LLC— QUA9110 ; (813) 621-5777; [bwilson@pricmt.com](mailto:bwilson@pricmt.com)

- **END OF EVALUATION REPORT** -