

PRODUCT SPECIFICATION – DURATION™ with SureNail® Technology

Section 07311 Fiber glass-based Asphalt Shingles.

PART 1 – GENERAL

Related Sections

- A. Rough Carpentry Section 06100.
- B. Roof and Deck Insulation Section 07240 for insulation placed over roof decking.

Notes to Specifier:

1. Underlayment and shingles installed directly over roof insulation or similar type decks is not approved.
 2. Roof deck must be dry, minimum 25/32” thick, maximum 6” wide boards, or APA rated sheathing (exposure 1): minimum 3/8” plywood, minimum 7/16” oriented strand board or waferboard. Consult your Owens Corning representative for other approved constructions.
 3. Ventilation under roof deck must meet FHA Minimum Property Standards.
- C. Flashing and Sheet Metal: Section 07600. For snow guards, metal flashing and drip edges, including step-type flashing installed with shingles.
 - D. Roof Accessories: Section 07800.
Accessories.
 1. RAFT-R-MATE® UL® Listed
 2. Soffits
 3. VentSure® Ventilation Products
 4. Hip & Ridge Shingles
 5. WeatherLock®

References

Standards and Building Codes

- A. ASTM D 224 -Standard Specification for Smooth-Surfaced Asphalt Roll Roofing.
- B. ASTM D 226 – Standard Specification for Asphalt-Saturated Organic Felt used in Roofing and Waterproofing.
- C. ASTM D 1970 – Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
- D. ASTM D 3018 – Standard Specification for Class A Shingles Surfaced with Mineral Granules.
- E. ASTM D 3161 – Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method).
- F. ASTM D 3462 – Standard Specification for Asphalt Shingles Made from Glass felt and Surfaced with Mineral Granules.
- G. ASTM D 4586 – Standard Specification for Asphalt Roof Cement, Asbestos –Free.

H. ASTM D 4869 – Standard Specification for Asphalt –Saturated Organic Felt Shingle Underlayment Used in roofing.

I. ASTM E 108 – Standard Test Methods for Fire Tests of Roof Coverings.

Quality Assurance

A. Shingles shall carry Underwriter’s Laboratories Labels:

1. UL® 790, Class A Fire Resistance
2. D-3161 Class “F” Wind Resistance
3. ASTM D3462

B. Install shingles to meet requirements of published Owens Corning instructions.

PART 1 – GENERAL (Continued)

Submittals

- A. Manufacturer color sample showing full range of colors available for specified products.
- B. Product literature and recommended installation procedures.
- C. Owens Corning Limited Warranty *

Delivery, Storage, and Handling

- A. Deliver materials to site in manufacturer’s unopened bundles with labels intact and legible.
- B. Handle and store materials on site to prevent damage. Store in a covered ventilated area at a maximum temperature of 110°F.
- C. Do not stack product more than 2 pallets high. If stacking 2 pallets high, use separator boards to protect the shingles below.
- D. Roof Top Loading: Lay shingle bundles flat. Do not bend over the ridge.

Project Conditions

- A. Proceed with installing shingles only when weather is appropriate for a quality installation.
- B. Do not install underlayment or shingles on wet surfaces.

Warranty

- A. Materials: Owens Corning 30-year Limited Warranty* 110 mph wind, terms and conditions apply.

Limitation

Owens Corning Shingle can not be installed over an insulated roof assembly, without proper ventilation, contact manufacture for details.

PART 2 – PRODUCTS

Asphalt Shingles

Owens Corning Duration™ fiber glass-based asphalt shingles complying with ASTM specifications E 108 Class A or UL 790 Class A, D 3462, D 3161 Class “F” D 228 or UL 997, , D 3018 Type 1, , ASTM D 228.

Duration™ Shingle Product Specification

Nominal Size:	13 ¼” x 38 ¾”
Exposure:	5 5/8”
Shingles per Square:	66
Bundles per Square:	3 bundles of 22 shingles
Coverage per Square:	99.9 sq. ft.

Ventilation

Owens Corning VentSure® Rigid Roll Ridge Vent with Weather PROtector™, VentSure Rigid Strip Ridge Vent, VentSure Roof vents, VentSure™ Gable vents, VentSure Undereave vents, VentSure Miniature vents, VentSure Foundation vents.

Waterproofing Underlayment

Owens Corning waterproofing underlayment “WeatherLock” meets ASTM D 1970 self-adhesive waterproofing underlayment, fiber glass reinforced with SBS modified asphalt, UL Listed.

1. WeatherLock® Mat,
2. WeatherLock® G
3. WeatherLock® P

Asphalt Felt Underlayment

Non-perforated, [Type I, No. 15] [Type II, no. 30], asphalt saturated felt complying with ASTM D 226, ASTM D 4869 or ASTM D 6757.

Hip & Ridge Shingles

Owens Corning Hip and Ridge shingles of same background color as field of roof.

Hip & Ridge Product Specification

High Ridge Hip & Ridge	
Nominal Size:	12"x 12"
Exposure:	8"
Pieces per Carton:	32
Lineal Feet per Carton:	21.3 ft.

PART 2 – PRODUCTS (Continued)

Fasteners

All fasteners must be driven flush with the shingle surface and penetrate at least 3/4" into the wood deck. Where the deck is less than 3/4" thick, the fastener should be long enough to penetrate fully and extend at least 1/8" through the roof deck.

Owens Corning recommends the use of nails as the preferred method of attaching shingles to wood decking or other nailable substrates. If staples are used they must be, corrosion resistant, zinc-coated, 16-gauge minimum with minimum 15/16" crown width. Staples must be long enough to penetrate at least 3/4" into solid decking, or extend a minimum of 1/8" through the APA-rated sheathing.

PART 3 – EXECUTION

Examination

Prior to starting work, examine all roof decks on which work is to be applied for defects in materials and workmanship which may be detrimental to the proper installation or long-term performance of the shingles.

Installation

Installation shall be in accordance with the Instructions Published by Owens Corning and your local building codes.

Product styles and colors change over time, for current selection of products and colors in your area, please contact your Owens Corning representative.

Owens Corning strives to accurately reproduce the images of shingles in this literature. However, due to manufacturing variances, the limitation of graphic reproduction and the variation in natural exterior lighting, actual shingle colors, and granule blends may vary from the images you see reproduced in this literature. For this reason, it is important to see an actual roofing sample or actual products installed on a home before making final color selection.

* See actual warranty for complete details.

Available in the following plant service areas: Minneapolis, Brookville, Brookville South, Medina and Summit.