

SECTION 07 3113

ASPHALT SHINGLE ROOFING SYSTEM

Atlas Roofing Corporation asphalt/fiberglass shingles.

This section is based on the Atlas Roofing Corporation line of asphalt fiberglass shingles. Atlas has been the industry leader in proven innovations in design and shingle technology and the introduction of a full line of designer shingle colors and shapes.

For more information on Atlas Roofing Corporation products and availability, or for the name of your local Atlas Roofing Corporation representative, contact or write: Atlas Roofing Corporation, 2000 RiverEdge Parkway Suite 800, Atlanta, GA 30328. Or www.atlasroofing.com

This three-part specification must be edited to delete shingle types and styles not required on a particular project. Also, you may delete the "NOTES" below once editing is completed.

Part 1 General

1.01 section includes:

- **A.** Granule surfaced shingle roofing.
- **B.** Underlayment, eave, valley and ridge protection.
- **C.** Metal flashing.

*****NOTE: REFER TO DIVISIONS 6 AND 7 FOR RELATED SECTIONS REQUIREMENTS*****

*****NOTE: CONTACT ATLAS ROOFING CORPORATION FOR LIST OF RELATED REFERENCES*****

1.02 Submittals

- **A.** Submit under provision of Section (_____).
- **B.** Product Data: Provide data indicating material characteristics, performance criteria, limitations and (_____).
- **C.** Manufacturer's Installation Instructions: Indicate preparation and installation procedures. Installation of shingles, underlayment, flashing, fasteners, vents, and other roof accessories shall be in accordance with instructions published by Atlas Roofing Corporation.
- **D.** Manufacturer's Certificate of Compliance: Provide Certificate of Compliance indicating that the asphalt shingles made in normal production meet or exceed the requirements. of:
 - **1.** Class A Fire Resistance.
 - **2.** ASTM D 3161 Test method for wind resistance of asphalt shingles.
- **E.** Shop Drawings: Indicate (_____) metal flashing, jointing methods and locations, fastening methods and locations and installation details, as needed.

1.03 Regulatory requirements

- **A.** Provide certificate of compliance from shingle manufacturer for ASTM, FM and UL Standards, indicating conformance of specified products.

1.04 Environmental requirement

- **A.** Do not install Atlas Shingles or WeatherMaster Ice & Water Underlayment when (ambient) (wind chill) temperatures are below (45) degrees Fahrenheit. Fasten the ice and water protection in place with blind nailing at the overlaps at 6" O.C. if it does not adhere immediately to the deck.

1.05 Extra Materials

- **A.** Furnish under provisions of section (_____).
- **B.** Provide (_____) sq ft of extra shingles (of each color specified).

*****NOTE: CONTACT ATLAS ROOFING CORPORATION FOR SHINGLE WARRANTY FOR SPECIFIC PRODUCT(S) SPECIFIED*****

PART 2 PRODUCTS

2.01 ASPHALT SHINGLE

- **A.** Acceptable products
 - 1. StormMaster® Shake featuring Scotchgard™ Protector - Lifetime Limited Warranty

*****NOTE: Number after product name indicates warranty years*****

2.02 Asphalt Shingle/CHARACTERISTICS

- CORE4 Modified Asphalt Technology/Fiberglass
- StormMaster® Shake featuring Scotchgard protector
- Two piece laminated shingle
- Shingle Dimension: 14" x 42" with 6" Exposure
- **ASTM**
 - D 7158, Class H Wind Resistance, Passed at 150 mph
 - D 6381, Uplift Resistance
 - D 3018, Type 1
 - D 3161, Class F, Tested at 110 mph
 - D 3462, As Manufactured
 - E 108, Class A Fire Resistance
- **UL**
 - 2390, Class H Wind Resistance
 - 790, Class A Fire Resistance
 - 2218, Class 4 Impact Resistance
- CAN/CSA-A123.5-M90
 - Florida Building Code Approved - FL 16305
 - Miami-Dade County-Dade Product Control Approved
- Algae Resistant - Scotchgard™ Protector standard

2.03 Sheet Materials

- **A.** Atlas Roofing Corporation WeatherMaster Ice & Water Underlayment self-adhesive waterproofing membrane is used as an underlayment for roof coverings. WeatherMaster Ice & Water Underlayment is made with SBS Modified Asphalt Technology and is reinforced with a heavy glass fiber mat. The split, two piece peel-off backing material is a silicone coated polyethylene sheet for ease of removal. ASTM D1970 compliant.
- **B.** Underlayment: ASTM D226 Type (I or II), Asphalt saturated felt.
 - **1.** ATLAS #15 Spec Felt. ASTM D 4869 Type I or Type III
 - **2.** ATLAS #30 Spec Felt. ASTM D 4869 Type II or IV

- **C.** Gorilla Guard 30- Wrinkle resistant glass reinforced underlayment felt ASTM D 6757.
- **D.** Summit 180 Synthetic Underlayment - Woven polypropylene fabric with UV + water resistive coating. 6 months exposure, synthetic shingle underlayment. ASTM D 6757
- **E.** Summit 60 Synthetic Underlayment – Woven polymeric scrim with UV + water resistive coating. 60 day exposure, synthetic shingle underlayment. ASTM D 6757

SELECT ONE (1.)

2.04 Accessories

- **A.** Nails: Standard round wire type roofing nails, corrosion resistant (hot dipped zinc coated steel) (aluminum) (copper) (chromated steel) (____); nominal 3/8" head diameter; minimum; 11 or 12 gauge shank diameter; shank to be of sufficient length to penetrate 3/4" into solid wood, plywood, or non-veneer wood decking, or 1/8" through the thickness of the decking.
- **B.** Asphalt Roof Cement: ASTM D4586. Asbestos free.

2.05 Flashing Materials

- **A.** Sheet Flashing: (ASTM A361) (ASTM B209) (ASTM B370) (____) to meet shingle manufacturer's requirements. Shall meet or exceed local building code requirements.
- **B.** Bituminous Paint: Acid and alkali resistant type; black color.
- **C.** Tinnerns Paint: (Red) (Green) (Brown) (____) color.
- **D.** Nails: Standard round wire type roofing nails, corrosion resistant (hot dipped zinc coated steel) (aluminum) (copper) (chromated steel) (____); nominal 3/8" head diameter; minimum 11 or 12 gauge shank diameter; shank to be of sufficient length to penetrate 3/4" into solid wood, plywood, or non-veneer wood decking, or 1/8" through the thickness of the decking.

2.06 Flashing Fabrication

- **A.** Form flashing (indicated on Drawing(s)) to protect roofing materials from physical damage and to shed water.
- **B.** Form sections square and accurate to profile, in maximum possible lengths, free from distortion or defects detrimental to appearance or performance.

Part 3 Execution

3.01 Examination

- **A.** Verify existing site conditions under provisions of Section (____).
- **B.** Verify that roof penetrations and plumbing stacks are in place and flashed to deck surface.
- **C.** Verify roof openings are correctly framed prior to installing work of this section.
- **D.** Verify deck surfaces are dry, free of ridges, warps, or voids.

3.02 Roof Deck Preparation

- **A.** Follow shingle manufacturer's recommendations for acceptable roof deck materials.
- **B.** Broom clean deck surfaces prior to the roof installation.

3.03 Installation - Eave Ice Dam Protection

- **A.** Place (eave edge) (and) (gable edge) metal flashing tight with fascia boards. Weather lap joints 3 inches and seal with roofing cement. Secure flange with nails spaced (____) inches o.c.

- **B.** Apply Atlas Roofing Corp. WeatherMaster Ice & Water Underlayment Waterproofing Membrane, a self-adhering, SBS rubberized asphalt membrane as eave protection in accordance with manufacturer's instructions.
- **C.** Extend eave protection membrane minimum (24) (48) (____) inches up the slope beyond interior face of exterior wall.

3.04 Installation - Protective Underlayment

- **A.** When roof slope is between 2" and 4" per foot, install one layer of WeatherMaster Ice & Water Underlayment, or two layers of ASTM D226 TYPE (____) underlayment over areas not protected by WeatherMaster Ice & Water Underlayment at eave, with ends and edges weather lapped a minimum (6) (____) inches. Stagger end laps between each consecutive layer. Nail in place.
- **B.** When roof slope is 4" per foot or greater, install one layer ASTM D226 TYPE (____) one layer of WeatherMaster Ice & Water Underlayment or underlayment perpendicular to slope of roof and lap minimum (4) (____) inches over eave protection.
- **C.** Weather lap and seal watertight with plastic cement ASTM 4586 around items projecting through or mounted on the roof.

3.05 Installation - valley protection

- **A.** For "Closed-Cut," "Woven," or "Open" valleys, first place one-ply of WeatherMaster Ice & Water Underlayment (____) minimum (36) (____) inches wide, centered over valleys. Lap joints minimum (6) (____) inches. Follow shingle and waterproofing membrane manufacturer's instructions.

3.06 Installation - Metal Flashing

- **A.** Weather lap joints minimum (3) (____) inches (and seal weather tight with plastic cement).
- **B.** Secure in place with nails at (____) inches o.c. Conceal fasteners.
- **C.** Seal work projecting through or mounted on roofing with asphalt roof cement (not required for step flashing).

3.07 Installation - Asphalt Shingles

- **A.** Install shingles in accordance with manufacturer's instructions for the type of product and application specified.

3.08 Field Quality Control

- **A.** Field inspection will be performed under provisions of Section (____).

3.09 Protection of Finished Work

- **A.** Protect finished work under provisions of Section (____).
- **B.** Do not permit traffic over finished roof surface.

END OF SECTION - 2012