

StormMaster LM Shingle Specification

Section 07310

Part 1 General

1.01 section includes:

- A. Granule surfaced asphalt 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, 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 (Fiberglass). Class C Fire Resistance (Organic).
 - 2. ASTM D3161 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 requirements

- A. Do not install Atlas Shingles or StormMaster DG Ice & Water Protection when (ambient) (wind chill) temperatures are below (____)degrees Fahrenheit. Fasten the ice and water protection in place 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® LM 50**

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

2.02 Asphalt Shingle/CHARACTERISTICS

A. SBS Modified Asphalt/Fiberglass

- 1. StormMaster LM: Two piece laminated shingle**

ASTM

D 7158, Class H Wind Resistance
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
997, Wind Resistance
2218, Class 4 Impact Resistance

CAN/CSA-A123.5-M90

Florida Building Code Approved - #FL784.4
Miami-Dade Compliance Requirements
NOA No. 05-0120.02

2.03 Sheet Materials

A. Atlas Roofing Corporation StormMaster DG Ice & Water Protection self-adhesive waterproofing membrane is used as an underlayment for roof coverings. StormMaster DG Ice & Water Protection is made with SBS Modified Asphalt 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.

B. Underlayment: ASTM D226 Type (___), Asphalt saturated felt.

- 1. ATLAS #15 Spec Felt.**
- 2. ATLAS #30 Spec Felt.**

C. PFF (Premium Flat Felt)- Wrinkle resistant glass reinforced underlayment felt

*****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) (____); minimum 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 (Type I) (Type II). 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. Tinnings Paint: (Red) (Green) (Brown) (____) color.

D. Nails: Standard round wire type roofing nails, corrosion resistant (hot dipped zinc coated steel) (aluminum) (copper) (chromated steel) (____); minimum 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 (2) (____) inches and seal with roofing cement. Secure flange with nails spaced (____) inches o.c.

B. Apply Atlas Roofing Corp. StormMaster DG Ice & Water Protection 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 StormMaster DG Ice & Water Protection, or two layers of ASTM D226 TYPE (____) underlayment over areas not protected by StormMaster DG Ice & Water Protection 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 (____) underlayment perpendicular to slope of roof and lap minimum (4) (____) inches over eave protection.

C. Weather lap and seal watertight with plastic cement (____), 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 StormMaster DG Ice & Water Protection (____) 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 (2) (____) 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