

Atlas AWM2

Atlas WeatherMaster Ice and Water Roof Underlayment

Model: AWM2

PRODUCT OVERVIEW

The Atlas WeatherMaster Ice and Water Roof Underlayment is a self-adhesive membrane designed to provide a critical secondary layer of waterproofing protection for roofing systems. It effectively prevents damage caused by ice dams and wind-driven rain, enhancing the longevity and integrity of the roof structure. Composed of a proprietary SBS-modified asphalt, this underlayment offers excellent traction during installation and robust protection against UV degradation and weathering. Its high-temperature stability makes it suitable for various roofing applications, including new construction and re-roofing projects requiring a complete tear-off.

KEY FEATURES

- **Superior Adhesion:** Offers 2x more adhesion than industry standard products, ensuring a secure bond to the roof deck.
- **Self-Adhering Design:** Features a self-adhesive backing that seals directly to the deck, eliminating the need for special adhesives, equipment, or heat for installation.
- **Enhanced Strength:** Incorporates a fiberglass mat for increased strength and better tear resistance compared to traditional saturated felt.
- **Low-Temperature Performance:** Maintains an aggressive bond even at low temperatures, with a minimum application temperature of 45 degrees Fahrenheit.
- **Optimal Thickness:** With a 55-mil thickness, it exceeds industry requirements by 38%, providing robust protection.
- **Coverage:** Each roll covers 2 squares (200 square feet), with dimensions of 36 inches in width and 65

feet in length.

INSTALLATION AND SETUP

Proper installation of the Atlas WeatherMaster Ice and Water Underlayment is crucial for its performance. This self-adhering membrane simplifies the process, requiring no special tools or heating.

Preparation:

- Ensure the roof deck is clean, dry, and free of debris.
- Verify that the deck material is code-approved.
- The minimum application temperature is 45 degrees Fahrenheit (7 degrees Celsius).

Application Areas:

This underlayment is designed for critical areas of the roof where water and ice accumulation are most likely to occur. Apply to:

- Valleys
- Eaves
- Flashings
- Hips and Ridges
- Rakes
- Around dormers and skylights

Installation Steps (General Guidelines):

1. **Eave Edge Application:** Begin by applying the WeatherMaster Ice & Water underlayment at the eave edge. Ensure the flashing membrane overhangs the drip edge by 1/4 to 3/4 inch at the eaves.
2. **Nailing:** Secure the underlayment with nails 12 inches on center (O.C.) at the eave edge on wood decks.
3. **Interior Wall Line Coverage:** Apply the underlayment to a point at least 24 inches beyond the interior wall line to provide adequate protection against ice damming.
4. **Rake Edge Application:** At the rake edge, the drip edge should be installed over the WeatherMaster Ice & Water underlayment.
5. **Overlapping:** Ensure a 3-inch overlap for subsequent courses of underlayment to maintain continuous waterproofing.
6. **Adhesion:** The self-adhesive backing will bond aggressively to the deck. Roll or press firmly to ensure full contact and remove any air bubbles.

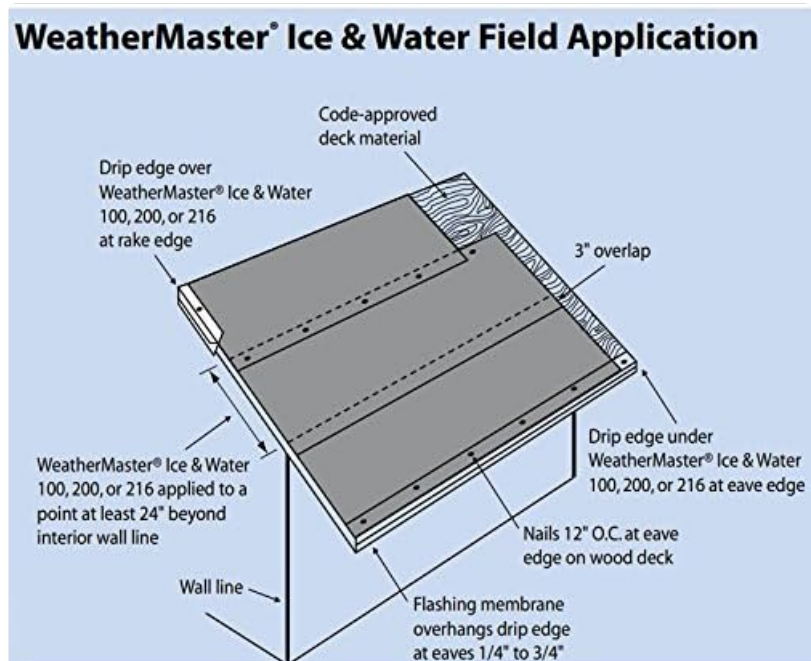


Figure 1: WeatherMaster Ice & Water Field Application Diagram. This illustration demonstrates the proper placement and overlapping techniques for the underlayment at eaves, rakes, and interior wall lines, including drip edge and nailing details.

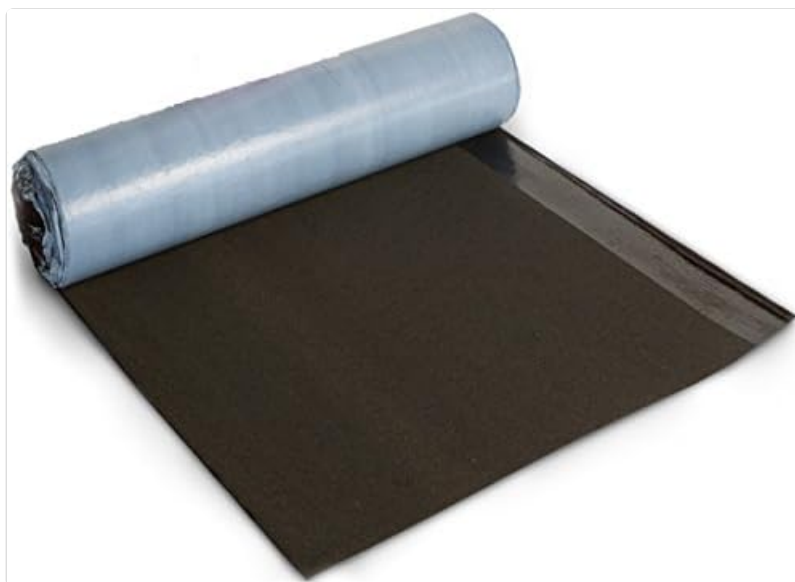


Figure 2: Atlas WeatherMaster Ice and Water Roof Underlayment Roll. This image displays a roll of the underlayment, partially unrolled to reveal its self-adhesive asphalt surface and the protective film that is removed during installation.

PERFORMANCE CHARACTERISTICS

Once installed, the Atlas WeatherMaster Ice and Water Underlayment functions as a robust, passive barrier against water intrusion. Its primary role is to provide a secondary waterproofing layer beneath the primary roofing material.

- **Ice Dam Protection:** Effectively prevents water from entering the structure due to ice damming, where melting snow refreezes at the eaves.
- **Wind-Driven Rain Barrier:** Acts as a seal against wind-driven rain that might penetrate the primary roof

covering.

- **Self-Sealing Around Fasteners:** The SBS-modified asphalt composition allows the membrane to self-seal around roofing fasteners, further enhancing its waterproofing capabilities.
- **Compatibility:** Provides extra protection under various roofing types, including tile, wood shake, asphalt shingles, slate, or metal.
- **Fire Ratings:** Achieves Underwriters Laboratories Class A and Class C Fire Ratings (based on the roof covering system).
- **Certifications:** Complies with ASTM D1970 (Standard Ice Dam Underlayment), Florida Building Code Approved (FL 17322), and Miami-Dade County Product Control Approved.

MAINTENANCE

The Atlas WeatherMaster Ice and Water Underlayment is designed to be a maintenance-free component of your roofing system once properly installed. Its durable composition and self-sealing properties ensure long-term performance without requiring regular upkeep.

Periodic inspection of the overall roofing system is recommended to identify any potential issues with the primary roof covering that could expose the underlayment to prolonged UV or physical damage. Any damage to the primary roof should be addressed promptly to maintain the integrity of the entire system.

TROUBLESHOOTING

While the WeatherMaster underlayment is designed for reliable performance, issues can sometimes arise, primarily related to installation or extreme conditions. Below are common concerns and potential solutions:

Issue: Poor Adhesion During Installation

Possible Cause: Application temperature below 45°F (7°C), dusty or wet roof deck, or insufficient pressure applied during installation.

Solution: Ensure the roof deck is clean, dry, and within the recommended temperature range. Apply firm, even pressure across the entire surface of the membrane using a roller to ensure full contact and activate the adhesive. Do not install on frozen or contaminated surfaces.

Issue: Wrinkling or Buckling After Installation

Possible Cause: Trapped air or moisture beneath the membrane, or improper tension during application.

Solution: During installation, carefully unroll the membrane, avoiding wrinkles. Use a roller to smooth out any trapped air immediately. If buckling occurs after installation, it may indicate moisture issues or improper deck preparation. Consult a roofing professional for assessment.

Issue: Water Leaks Despite Underlayment Installation

Possible Cause: Damage to the underlayment during subsequent roofing work, improper overlaps, or issues with the primary roofing material.

Solution: The underlayment is a secondary barrier. First, inspect the primary roofing material (shingles, tiles,

etc.) for damage or improper installation. If the underlayment itself is suspected, a professional inspection is required to identify and repair any breaches or improper sealing points. Ensure all overlaps are correctly sealed and that the membrane extends sufficiently into critical areas.

SPECIFICATIONS

Attribute	Detail
Manufacturer	Atlas
Model Number	AWM2
Material	Asphalt and Fiberglass
Item Weight (Pallet)	1655 pounds
Item Package Quantity	25 rolls
Roll Coverage	2 Square (200 Square Feet) per roll
Roll Dimensions	36 inches (Width) x 65 feet (Length)
Thickness	55-mil
Minimum Application Temperature	45°F (7°C)
Certifications	UL Class A and C Fire Rating, ASTM D1970, Florida Building Code Approved (FL 17322), Miami-Dade County Product Control Approved

WARRANTY INFORMATION

Specific warranty details for the Atlas WeatherMaster Ice and Water Roof Underlayment are typically provided by the manufacturer at the time of purchase or can be found on the official Atlas website. It is recommended to retain your purchase receipt and any warranty documentation provided with the product.

For the most accurate and up-to-date warranty terms, including coverage duration and conditions, please refer to the official documentation from Atlas or contact their customer service directly.

CUSTOMER SUPPORT

For technical assistance, installation guidance, or any product-related inquiries regarding the Atlas WeatherMaster Ice and Water Roof Underlayment, please contact Atlas customer support.

While specific contact details are not provided in this manual, you can typically find comprehensive support resources, including FAQs, technical data sheets, and contact information, on the official Atlas website. Please have your product model number (AWM2) and any relevant purchase details ready when contacting support.