

## ALL WEATHER/EMPIRE™ BASE SHEET MODIFIED BITUMEN COATED FIBER GLASS BASE SHEET

### Product Information



**Product Use:** ALL WEATHER/EMPIRE Base Sheet is designed for use as a base sheet for both hot and cold applied, built-up roofing systems. It is suitable for use in the construction of various types of membranes for both new construction and reroofing, over a variety of substrates. ALL WEATHER/EMPIRE will provide additional strength, moisture resistance and asphalt uniformity when used as the first ply over nailable, non-nailable and insulated substrates. In addition, it will perform as a venting base sheet when spot mopped over plastic foam-type insulations. It is acceptable for use with both organic and inorganic roof membranes whenever a heavy duty base sheet is desired. ALL WEATHER/EMPIRE Base Sheet is also acceptable for use as a UL Classified underlayment beneath CertainTeed Symphony™ Slate Roofing.

**Limitations:** ALL WEATHER/EMPIRE Base Sheet may be applied in either hot asphalt or approved cold adhesive such as FlintBond™ depending on system design and selection. Rolls should be stored upright, off ground, completely protected from the weather. Roof decks shall be structurally sound, dry, smooth and meet or exceed minimum requirements of the deck manufacturer, local code and CertainTeed. Roof decks shall provide positive drainage. Additional specifications and precautions are contained in the CertainTeed Commercial Roof Systems Manual.

**Product Composition and Features:** ALL WEATHER/EMPIRE Base Sheet is manufactured on a durable, high-quality fiber glass mat that receives a coating of modified bitumen compound. The final product is lightly surfaced with a mineral release agent. The modified bitumen coating provides excellent moisture resistance and durability. ALL WEATHER/EMPIRE Base Sheet is pliable and will conform to most surfaces for ease of application.

**Applicable Standards:** ALL WEATHER / EMPIRE Base Sheet is approved by Underwriters Laboratories for use in various Class A, B, or C roof assemblies, ICC-ES (ESR-1388), Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL 477 and FL 479). Consult [www.certainteed.com/lowslopetechinfo](http://www.certainteed.com/lowslopetechinfo) for details. Meets ASTM D4601, Type II.

### Technical Data

The following information represents typical average properties of ALL WEATHER/EMPIRE Base Sheet:

<b>Support Mat:</b>	Fiber glass base mat.
<b>Surfacing:</b>	Mineral release agent.
<b>Approximate Product Weight:</b>	70 lbs. per roll.
<b>Dimensions:</b>	39 <sup>3</sup> / <sub>8</sub> " X 65'10" (216 square feet).
<b>Coverage:</b>	Two squares.
<b>Thickness:</b>	1.3mm (50 mils)
<b>Tensile @ 73°F:</b>	MD 85 XD 75.
<b>Pliability @ 77°F:</b>	Passed.
<b>Water-Vapor Permeance:</b>	< 0.3 perms.

## **Product Application**

Roof systems constructed with ALL WEATHER/EMPIRE Base Sheet as the base ply shall be applied in accordance with installation procedures contained in the CertainTeed Commercial Roof Systems Manual. The following information is intended for general information purposes only and is not all-inclusive.

**Preparation:** Substrates to receive a roof system shall be firmly attached, smooth, dry, clean and free of sharp projections and depressions. Flashing shall be in place and roof accessories available prior to application of materials. Substrates requiring priming shall be primed with asphalt primer such as FlintPrime™ and be allowed to completely dry. Substrates shall provide positive drainage. Roof insulation shall be tapered to drains.

**Installation:** ALL WEATHER/EMPIRE Base Sheet shall be installed with 2" side laps and 4" end laps, with end laps diagonally staggered not less than 3 feet apart. For nailable substrates, mechanically fasten ALL WEATHER/EMPIRE Base Sheet 9" o.c. at side laps and 18" o.c. in two rows, 12" in from each edge with approved fasteners. For non-nailable or insulated substrates, ALL WEATHER/EMPIRE Base Sheet shall be set in either a spot or solid mopping of bitumen as required by the CertainTeed Commercial Roof Systems Manual. Spot mopping, when specified, shall be applied in 9" diameter circles, 24" o.c. in all directions. Solid moppings shall be applied at the rate of 25 lbs. per 100 sq. ft. Bitumen shall be heated and applied within temperature guidelines as set by CertainTeed according to type and grade.

**Precautions:** Cold weather applications require special handling to prevent damage to the rolls and to ensure satisfactory installation. Do not apply roofing systems over improperly prepared substrates or substrates which contain moisture.

**Maintenance:** CertainTeed Commercial Roof Systems do not require any additional maintenance beyond normal yearly roof maintenance procedures. CertainTeed recommends regular roof maintenance and inspection to determine the condition of drains, flashings and other similar items, and to prolong the life expectancy of the roof system.

## **Warranties**

CertainTeed offers a number of different types of Roof Membrane Warranties designed to meet the building owner's specific requirements. Please contact your nearest CertainTeed office for additional information and requirements.

## **Technical Assistance and Service**

CertainTeed provides technical assistance in the design, selection, specification and application guidelines for all CertainTeed Commercial Roof Systems. Architectural and field representatives are available for consultation within each region.

For more information, contact CertainTeed's Customer Support at 800-233-8990.

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