

BLACK DIAMOND® BASE SHEET

**SELF-ADHERING, SBS MODIFIED BITUMEN COATED,
FIBER GLASS BASE SHEET OR VAPOR RETARDER**

Product Information



Product Use: BLACK DIAMOND Base Sheet is designed for use as a base sheet for modified bitumen or 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. BLACK DIAMOND Base Sheet will provide additional strength, improved handling, pliability, and moisture resistance when used as the first ply over non-nailable and insulated substrates. BLACK DIAMOND Base Sheet may also be used as a vapor retarder under roof insulation.

Limitations: BLACK DIAMOND Base Sheet is attached by a self-adhering method. It is **not** intended for attachment with hot asphalt, cold adhesive, coal tar pitch, or mechanical fasteners. 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. BLACK DIAMOND Base Sheet is a self-adhering base sheet featuring a peel-off backing.

Product Composition and Features: BLACK DIAMOND Base Sheet is manufactured on a durable, high quality fiber glass mat which receives a coating of SBS modified bitumen compound and is surfaced with fine mineral particles. The fiber glass base mat provides uniform strength and moisture resistance. BLACK DIAMOND Base Sheet modified bitumen compound provides increased durability with improved pliability and high-tack characteristics for smoother, more uniform applications without the need of adhesives or hot asphalt.

Applicable Standards: BLACK DIAMOND 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 479), Consult www.certainteed.com/lowslopetechinfo for details. Meets ASTM D1970.

Packaging: BLACK DIAMOND Base Sheet rolls are individually packaged in corrugated boxes.

Technical Data

The following information represents typical average properties of BLACK DIAMOND Base Sheet:

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| Modified Bitumen Coating: | Non-oxidized (flux) asphalt, blended with a compatible elastomeric styrene-butadiene-styrene polymer and selected inert fillers. |
| Support Mat: | Wet process fiber glass mat |
| Surfacing: | Fine black mineral particles |
| Approximate Weight: | 76 lbs. per roll |
| Roll Dimensions: | 39 ³ / ₈ " x 68'7" (225 square feet) |
| Coverage: | Two Squares |
| Thickness: | 1.5mm (60 mils) |
| Tensile: | @ 73°F MD 45 lbs./in. XD 35 lbs./in. |
| H₂O Absorption: | 0.1% |
| Dimensional Stability: | MD 0.1% XD 0.1% |

Product Application

Roof systems constructed with BLACK DIAMOND 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 details shall be in place, ready to receive roofing with 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: BLACK DIAMOND Base Sheet shall be installed with 4" side laps and 6" end laps, with end laps diagonally staggered not less than 3 feet apart. BLACK DIAMOND Base Sheet shall be applied to a clean, non-nailable substrate by peeling off the siliconized backer which exposes a specially formulated SBS high-tack self adhesive surface, which is normally heat activated by the sun. Therefore, on hot sunny days, adhesion occurs quickly. In addition, mopping or torching a finished membrane to the base is more than sufficient to induce the adhesive's bite and set. During cool weather, the top surface of the BLACK DIAMOND Base Sheet can be heated in order to activate the adhesive at the bottom of the product.

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. Self-adhered membranes can act as a vapor barrier; it is the sole responsibility of the architect, contractor and owner to ensure adequate and appropriate substrate and roof system ventilation.

Maintenance: CertainTeed Commercial Roof Systems do not require any additional maintenance beyond normal 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 Services

CertainTeed provides technical assistance in the design, selection, specification and application guidelines of FLINTLASTIC 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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