General
This specification is for use over any approved structural deck that provides a suitable surface to receive the roof. This specification can also be used in certain re-roofing applications. Poured and precast concrete decks require priming prior to application of hot asphalt.

This specification is also for use over JM insulations or other rigid insulations which are not nailable and which offer a suitable surface to receive the roof. Specific written approval is required for any roof insulation not manufactured or supplied by JM.

Note: Consider all general instructions contained in the current JM SBS Application Guide as part of this specification.

Design
Consider local conditions and characteristics when designing, specifying and installing any roofing system. Information from the Single Ply Roofing Industry (SPRI), Asphalt Roofing "Manufacturers Association (ARMA), FM Global" and local building codes can provide guidelines for the designer.

Design and installation of the deck and/or roof substrate must result in the roof draining freely to outlets numerous and so located as to remove water substantially within 48 hours of a rain event.

Membrane Substrate
The surface on which the SBS modified bitumen membrane is to be applied should be a firm, dry, clean and free of dirt, debris, oil/grease and gravel. Apply JM urethane adhesive directly to the substrate and allow it to rise to the height of any protruding surface. When using JM One-Step Foamable Adhesive, the insulation boards must be set into the adhesive immediately and walked in to achieve the proper curing time of the adhesive. Refer to the specific JM product data sheets of JM insulation adhesives listed above for coverage rates and specific application information.

When adhering insulation boards using hot asphalt, board size must be no greater than 4’ x 4’ (1.22 m x 1.22 m) if installing over an existing layer of insulation or in multiple layers, all joints must be offset a minimum of 6” (152 mm) between layers. Porous substrates may require greater amounts of asphalt. Concrete decks must be primed with Asphalt Primer prior to application of hot asphalt. Refer to the Insulation Installation Instructions document for further information.

Appropriate JM Insulation Fasteners Include: • All Purpose Fasteners • UltraFast Fasteners and Plates • Structural Concrete Deck Fasteners and Plates • Polymer Auger Fasteners
Install JM insulation Fasteners and Plates at an appropriate rate determined by building code, specification, and/or JM Guarantee requirements. Refer to the JM Minimum Insulation Fastening Requirements-Adhered Membrane Bulletin for further information.

Cover Board Application
Cover boards may be installed using asphalt, mechanical adhesives or nails. A minimum offset of 6” (152 mm) is recommended from previous layers of insulation. No board widths less than 6” (152 mm) are allowed. Refer to the Invisia Roof Board Codes and Application Brochure for further information. Refer to the JM Cover Boards Selector Guide for JM Cover Boards product information. Refer to section Insulation Application above for Cover Board Security Information including Adhered and Fastened methods of attachment.

Asphalt Application
Asphalt should meet the requirements of ASTM D 312. JM guarantees the use of Trumbull asphalt or another JM approved asphalt. The slope of the roof as well as the climate governs the grade of asphalt to be used.

JM endorses the guidelines established by the NRCA and ARMA for heating asphalt for proper applications. Asphalt should be applied at the Equiviscous Temperature (EVT) +/- 25°F (+- 4°C).

Modified Bitumen Sheet Application - Hot Asphalt
On roof decks with slopes up to 1⁄2” per foot (41 mm/m), the roof felts may be installed either perpendicular or parallel to the roof incline. Install each felt so that it is firmly and uniformly set, without voids into the hot asphalt. Follow the proper nominal recommended rates. All sheath edges should be well sealed.

Apply a half width sheet of one of the cap sheets listed over the full width adhered base ply into a full coating of MBR Cold Application Adhesive. Proper Cold Application Adhesive or MBR Bonding Adhesive. The remaining sheets are to be applied in the same manner with 4” (102 mm) side and end laps over polyester reinforced products. Apply all sheets so that they are firmly and uniformly set, without voids. Refer to the JM SBS Application Guide for further information.

Modified Bitumen Sheet Application - Cold Adhesive
Apply a half width piece of one of the cap sheets listed over the full width adhered base ply into a full coating of MBR Cold Application Adhesive, Premium Cold Application Adhesive or MBR Bonding Adhesive. The remaining sheets are to be applied in the same manner with 4” (102 mm) side and laps 6” (152 mm) end laps for polyester reinforced products. Apply all sheets so that they are firm and uniformly set, without voids. Refer to the JM SBS Application Guide for further information.