



JM EPDM Mechanically Fastened Membrane System Over Approved Decks or JM Insulation

General

This specification is for use over any type of approved structural deck which is suitable to receive a mechanically fastened membrane system and which can adequately retain the required mechanical fasteners. This specification is also for use over certain JM roof insulations which provide a suitable surface for the JM EPDM membrane. Insulation should be installed in accordance with the appropriate JM Insulation Specification detailed in the current JM Single Ply Roofing Systems Manual. This specification can also be used in certain re-roofing applications.

Note: Consider all general instructions contained in the current JM Single Ply Roofing Systems Manual as part of the specification.

Design

Consider local conditions and characteristics when designing, specifying and installing any roofing system. Information from the Single Ply Roofing Industry (SPRI), 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 enough and so located as to remove water promptly.

Deck Preparation

Ensure the deck is clean, dry and smooth. All deck fasteners should be driven flush to the substrate with no sharp edges. Holes and gaps should be evaluated and patched as appropriate.

Flashings

Refer to the JM EPDM Flashing Details within the Systems Application section of this manual or on the Web at www.specjm.com/roofing.

EPDM Membrane Application

Unroll and unfold the membrane to its fullest width. Move the membrane into place without stretching. When possible, begin the installation at the lowest point. Allow a minimum of 30 minutes prior to installation so that the membrane can relax. Apply the adjoining sheets in the same manner, lapping the edges a minimum of 6" (15.24 cm) along the long dimension and 3" (7.62 cm) minimum for end laps. Sheets should be laid out in an offset pattern, with a minimum of 3' (91.44 cm) between adjacent end laps. Laps should be constructed with the upslope sheet overlapping the adjoining sheet in a shingle manner to avoid any laps opposing natural drainage.

To mechanically secure the membrane to the substrate, the bottom sheet of the lap is mechanically fastened. Secure the membrane along the pre-printed line that is approximately 3" (7.62 cm) from the edge of the sheet, with the acceptable EPDM fastener and plate, spaced a maximum of 12" (30.48 cm) on center.

Seaming of Laps

The splice area must be completely free of all dust, debris and other contaminants. Fold back the top sheet. EPDM Tape Primer is then applied to both sheets in an area wider than the lap to ensure bonding to a primed surface. Unroll approximately 15" (38.1 cm) length of the tape and apply to the splice area. Continue unrolling 15" (38.1 cm) lengths of EPDM Seam Tape and secure in place along the entire length of the seam. With the release paper still in place, roll the entire length of the seam with a 2" (50 mm) steel roller to ensure good contact of the EPDM Seam Tape with the bottom EPDM sheet.

Roll the top EPDM sheet back over the EPDM Seam Tape, with the release paper still in place, leaving approximately ¼" (6 mm) of tape exposed. Remove the release paper from the EPDM Seam Tape by peeling it back parallel to the roof surface and away from the splice at a 45° angle. The top EPDM sheet should fall freely onto the exposed EPDM Seam Tape surface. Hand roll using a 2" (50 mm) steel roller, first diagonally across the entire splice toward the outside edge of the splice, and then along the length of the splice. Provide sufficient pressure to ensure a good seal. EPDM Seam Tapes must be overlapped a minimum of 2" (50 mm) to ensure a continuous tape surface.

Perimeter Attachment

Secure the JM EPDM roofing membrane at the perimeter and penetrations using RTS Strip or mechanical fasteners as appropriate. Refer to the JM EPDM Flashing Details for further information.

Perimeters and Corners shall comply with FM Global Loss Prevention Data Sheet 1-28 and 1-29 and be enhanced utilizing either Reinforced Termination Strip or additional rows of fasteners placed through the sheet and covered with Peel and Stick Sealing Strip. Refer to the appropriate JM Fastening Diagram for additional information.