

Assembly Identification

Membrane Thickness
 4 = 45 mil (1.14 mm)
 6 = 60 mil (1.51 mm)
 7 = 75 mil (1.90 mm)
 9 = 90 mil (2.28 mm)

S = Single Ply →

SEAM-SEAL-FIT

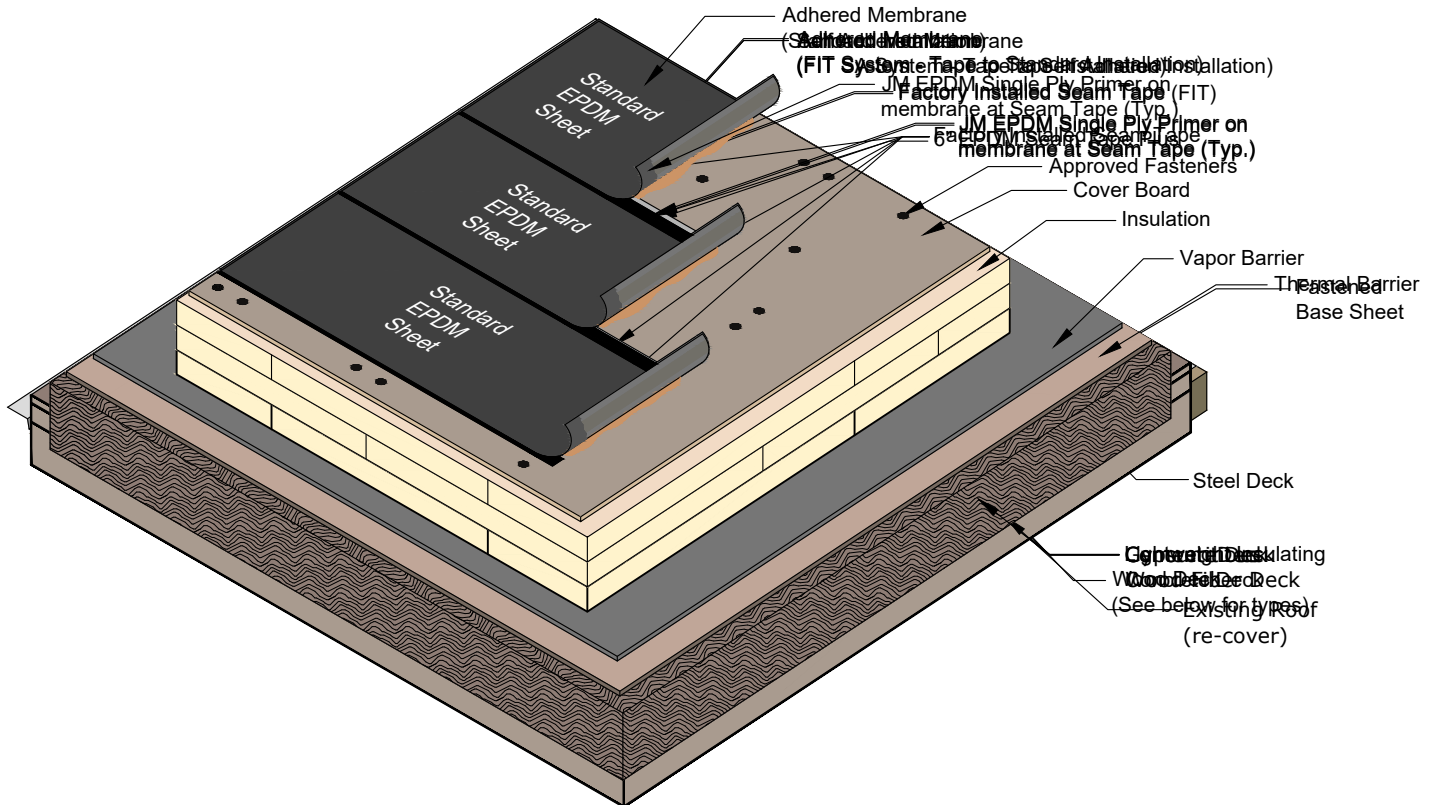
Membrane Type
 R = Reinforced

EPDM Membrane

Attachment

A = Adhered

SA = Self Adhered



For JM Guarantee Requirements Contact JM Technical Services at (800) 922-5922 Option 3 or Refer to the JM Peak Advantage Charges and Requirements-Single Ply document

EPDM Membrane and Specification Number:

Approved Cover Boards: (If Applicable)

Approved Vapor Barrier:

Approved Base Sheets:

- 45 mil - SE4A
- 45 mil (FIT System) - SE4A-FIT
- 60 mil (Reinforced) - SE6RA
- 60 mil - SE6A
- 60 mil (FIT System) - SE6A-FIT
- 60 mil (FIT SA System) - SE6SA-FIT
- 75 mil (Reinforced) - SE7RA
- 90 mil - SE9A
- 90 mil (FIT System) - SE9A-FIT

- RetroPlus™ Roof Board
- DEXcell®
- FA Glass-Mat Roof Board
- SECUROCK®
- Gypsum-Fiber Roof Board
- DensDeck® Prime Roof Board
- ProtectoR® HD Cover Board
- SeparatoR® CGF Recover Board
- Cover Board Thickness _____

- (If Applicable)
- DynaBase® (CA) (HA)
- DynaBase® PR (CA) (HA)
- GlasPly® IV (HA)
- GlasPly® Premier (HA)
- APPeX® 4S (HW)
- DynaWeld™ Base (HW)
- DynaBase® HW (HW)
- DynaWeld™ 180 S (HW)
- JM APP™ Base Sheet (HW)
- DynaGrip® Base SD/SA (SA)
- JM BaseGrip® SD/SA (SA)
- JM Vapor Barrier SA (SA)
- 6 or 10 mil poly with taped seams

- (If Applicable) Over Nailable Deck
- DynaBase®
- DynaBase® PR
- DynaFast® 180 S
- DynaLastic® 180 S
- GlasBase® Plus
- GlasTite® Flexible
- PermaPly® 28
- Ventsulation® Felt

Seam Options:

Approved JM Insulations:

Approved Thermal Barrier:

Deck Type:

- 3" JM EPDM Seam Tape Plus
- 6" JM EPDM Seam Tape Plus
- 3" (FIT SA) Tape to Self Adhered
- 4" (FIT) Tape to Tape
- 4" (FIT) Tape to Standard
- 6" (FIT) Tape to Tape
- 6" (FIT) Tape to Standard
- 3" JM EPDM Seam Tape Plus with
- 6" JM EPDM Peel & Stick Sealing Strip

- ENRGY 3®
- (ENRGY 3® Options)
- CGF
- 20 PSI
- 25 PSI
- Tapered
- Layer 1 Thickness _____
- Layer 2 Thickness _____
- Layer 3 Thickness _____

- (If Applicable)
- SECUROCK®
- Gypsum-Fiber Roof Board
- Glass-Mat Roof Board
- DEXcell®
- FA Glass-Mat Roof Board
- Glass-Mat Roof Board
- DensDeck® Roof Board
- DensDeck® Prime Roof Board
- Thermal Barrier Thickness _____

- Existing Roof (re-cover)
- Steel (22 Ga. Min.)
- Structural Concrete
- Nailable Decks include:
- Cementitious Wood Fiber
- Gypsum
- Lightweight Insulating Concrete
- Wood (Plywood, Plank, OSB)

General

This specification is for use over any approved structural deck which is suitable to receive the above selected system. This specification is also for use over certain JM roof insulations which provide a suitable surface for the JM membrane. This specification can also be used in certain re-roofing applications.

Note:

Consider all general instructions contained in the current JM EPDM 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), 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 substantially within 48 hours of a rain event.

EPDM Membrane Application

Before installation, unroll and unfold the JM EPDM membrane and allow it to "relax". The laps of JM EPDM adhered systems must be kept free of dust, debris, moisture or other contaminants. Clean all dirty surfaces to receive JM Single Ply Membrane Primer (Low VOC) or JM EPDM Tape Primer with JM Weathered Membrane Cleaner prior to applying primer. Do not apply adhesive to the lap areas of the sheet that will receive seam tape. Where there is a splice in the seam tape, that location must be stripped in with either 6" min. JM EPDM Peel & Stick Flashing or a JM EPDM Peel & Stick T-Joint patch. The seam tape may be overlapped to form a continuous tape surface. Overlaps must be a minimum of 2" (51 mm). Expose 1/8" to 1/4" (3 mm to 6 mm) of seam tape at all laps. Refer to details E-MS-02, 03, and 04 for lap construction information. Refer to the JM EPDM Application Guide for further information.

EPDM-FIT Membrane Application (Tape to Standard)

Before installation, unroll and unfold the JM EPDM -FIT membrane and allow it to "relax". After unrolling the first sheet, position adjoining sheets in the same manner, lapping the edges a maximum of 3" (7.62 CM) for 3" pre-taped EPDM FIT SA sheets, 4" (10.16 cm) for 4" pre-taped sheets and 6" (15.24 cm) for 6" pre-taped sheets. 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. Fold back the top sheet and hold the membrane away from the seam area. Apply primer to both the folded EPDM membrane and bottom sheet in an area wider than the lap. Once dry, roll the top sheet into place forming the lap. Starting at one end of the lap, remove the release liner from the EPDM Seam Tape by peeling it back parallel to the roof surface and away from the splice at a 45° angle. Hand roll using a 2" (50 mm) roller, first diagonally across the entire splice toward the outside edge, and then along the entire length of the splice. Refer to details E-MS-PT1, PT2, PT3 and PT4 for lap construction information.

EPDM-FIT Membrane Application (Tape to Tape)

Starting with the same steps as Tape to Standard, "without priming", start at one end of the JM EPDM-FIT membrane lap simultaneously remove the plastic release liners on both the upper and lower JM EPDM Seam Tape by peeling them back parallel to the roof surface and away from the splice at a 45° angle. Hand roll in same manner as Tape to Standard. Where there is a splice in the seam tape, that location must be stripped in with either 6" min. JM EPDM Peel & Stick Flashing or a JM EPDM Peel & Stick T-Joint patch. Refer to details E-MS-PT5, PT6, PT7 and PT8 for lap construction information.

Appropriate JM Membrane Adhesives include:

- JM EPDM FIT Self-Adhered Membrane
- JM LVOC Membrane Adhesive (TPO & EPDM)
- JM Membrane Bonding Adhesive (TPO & EPDM)
- JM EPDM Water Based Membrane Adhesive

When installing a Water Based, Solvent Based, or Low VOC two sided application with smooth backed membrane, apply adhesive to both membrane and approved substrate at rates listed on specific product data sheets. Most applications apply approximately half the listed rate to the membrane and the other half to the substrate. For porous substrates such as wood apply more adhesive to the substrate. EPDM systems require adhesive to become tacky to the touch on both surfaces without stringers. Keep both surfaces clean and dry. Refer to the fully adhered

systems section in the JM EPDM Application Guide for further information. Follow the application instructions for the type of adhesive utilized.

JM Single Ply LVOC Caulk is required on all cut or non-encapsulated edges of reinforced membrane. This includes factory cut membrane. Refer to detail E-MS-01 for further information.

Perimeter Attachment

Secure the JM EPDM membrane at the perimeter and penetrations using JM EPDM Reinforced Termination Strip or mechanical fasteners as appropriate. Refer to JM EPDM flashing details for further information.

For EPDM membrane information refer to the JM EPDM Membrane Selector Guide.

Flashings and Components

Refer to the JM EPDM Flashing Details in the EPDM Roofing Systems Application Tools. Refer to the JM EPDM Accessories Schematic and the JM EPDM Accessories Selector Guide for available System Components. Refer to detail E-FW-M11 for further information.

Cover Board Application

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 JM Cover Boards Selector Guide for JM Cover Boards product information. Refer to the Insulation Application section below for Cover Board Securement Information including Adhered and Fastened methods of attachment.

Insulation Application

A minimum offset of 6" (152 mm) is recommended from the previous layer of insulation. Loose laid insulations should be positioned with the long side of the boards running perpendicular to the EPDM sheet orientation and continuous. End joints should be staggered at least 12" (305 mm) from the end joint in adjacent rows. A minimum offset of 6" (152 mm) is recommended from plywood joints. Refer to the Insulation Installation Instructions document for further information.

Appropriate JM Insulation Adhesives Include:

- JM One Step Foamable Adhesive
- JM Roofing System Urethane Adhesive (RSUA)
- JM Two-Part Urethane Insulation Adhesive (UIA)
- JM Green Two-Part Urethane Insulation Adhesive
- Hot Asphalt

Refer to JM drawing UA-12 INS for Adhesive Bead Patterns.

When installing a low rise urethane adhesive product for insulation boards, all surfaces must be clean, dry, smooth, compatible and free of dirt, debris, oil/grease and gravel. Apply JM urethane adhesive directly to the substrate and allow it to rise and build body before placing board stock into the adhesive. Board stock attachment requires the board stock to be walked in to ensure positive contact between the board stock, adhesive and substrate. When installing JM One-Step Foamable Adhesive, insulation boards must be set into the adhesive immediately and walked in due to the rapid 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, firmly set the insulation boards long joints continuous and short joints staggered, into a full width mopping of hot asphalt. 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 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.

Roof Insulation plays a key role in energy efficiency shown in codes and standards that have mandated increasingly higher minimum R-values in all U.S. climate zones. Local codes dictate the required R-values for commercial and industrial projects and the local jurisdiction should be consulted for this information.

Refer to the JM EPDM Adhered Membrane-Fastened Insulation FM Approvals document for Single Ply System Code and FM Global Approval information.

Refer to the JM EPDM Adhered Membrane-Adhered Insulation FM Approvals document for Single Ply System Code and FM Global Approval information.

Vapor Barrier Application

All surfaces receiving vapor barrier must be clean and free from oil, grease, rust, scale, loose paint and dirt. The substrate may need to be cleaned according to JM Application Instructions, and any required primers installed. An adhesion test may need to be performed to determine if the substrate is adequate. Vapor Barrier attachment methods include Hot Asphalt, Cold Adhesive, Heat Welded, and Self Adhered. Refer to the JM Vapor Barrier SA Installation Guide, the Vapor Barrier Data Sheets, and the Vapor Retarders section in SBS Roofing Systems for further information.

Thermal Barrier Application

Apply the units of approved JM thermal barrier products with long joints continuous. End joints should be staggered so that they are offset at least 12" (305 mm) from the end joints in adjacent rows. Thermal barriers provide a fire resistive layer in the roof assembly directly above the deck.

Base Sheet Application

The bituminous base sheets for these systems are mechanically fastened. Refer to the "BM" Fastening Patterns section in SBS System Application Tools for Base Sheet fastening patterns and further information.

Primer Application

Surfaces must be free from oil, grease, rust, scale, loose paint and dirt, frost or any debris prior to the application to the top surface. Apply JM Primers between 40 degrees and 100 degrees F (4 degrees and 38 degrees C). Primers should be applied with no streaks or puddles and allowed to dry completely. Primer should be tacky but should not transfer to a dry finger.

Deck Preparation

Before roofing work is started, the deck should be carefully inspected by the roofing contractor, the deck contractor, and the owners representative to determine that it will be able to receive the roofing system by some method which will hold the system securely, either by adhesion, ballast, or mechanical fasteners. Refer to the JM Roof Decks document in System Considerations for further information.

Re-Roofing

A large percentage of all commercial and industrial roofing pertains to re-roofing of existing buildings. Refer to the JM Re-Roofing document for inspection, testing, components and other valuable information pertaining to re-roofing projects.

JM Guarantee Requirements

JM Peak Advantage Guarantees are available up to a 30 year term with approved components and assembly make-up. Refer to the JM Peak Advantage Charges and Requirements-Single Ply document for additional guarantee information.

Refer to the JM Peak Advantage Guarantee Information document for additional guarantee information and guidelines.

Refer to the JM Peak Advantage Guarantee Specimen document to see a JM Peak Advantage Guarantee sample.

All guaranteed installations must follow the guidelines for the requested guarantee as outlined in the JM Single Ply Application Manual. Not all JM specifications are eligible for all JM Peak Advantage Guarantee terms or enhanced coverage. Please contact JM Guarantee Services at (800) 922-5922 Option 3 for specific requirements.

All projects requiring a guarantee from JM must be applied for a minimum 14 days in advance of job start.

Refer to the Preventative Maintenance Brochure for roof and building maintenance guidelines.