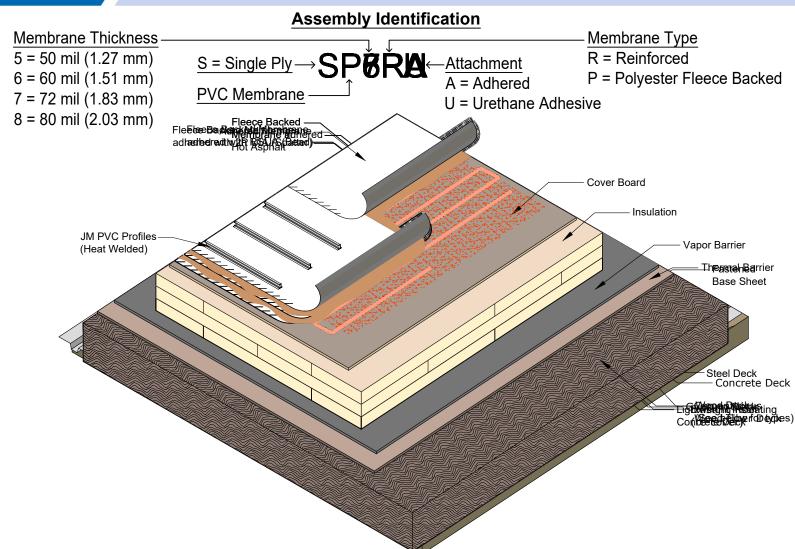


# ADHERED PVC ASSEMBLY PLATE



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

PVC Membrane and Specification Number:         JM PVC with Dow™ Elvaloy® KEE polymer         50 mil       SP5RA         60 mil       SP6RA         80 mil       SP8RA         JM PVC SD Plus       50 mil         50 mil       SP5RA         60 mil       SP6RA         80 mil       SP8RA         JM PVC SD Plus       50 mil         50 mil       SP5RA         60 mil       SP6RA         80 mil       SP8RA         JM PVC FB with DOW™ Elvaloy® KEE polymer         60 mil       SP6PA         72 mil MIN.       SP7PA         80 mil       SP8PA         98 PA       SP8PU         JM PVC SD PLUS FB       60 MIL         60 MIL       SP6PA         SP6PA       SP6PU         80 MIL       SP8PA         SP8PU       MIL         MDEXCELL®       FA Glass-Mat Roof Board         JM DEXCELL®       FA Glass-Mat Roof Board         JM DEXCELL®       Gypsum-Fiber Roof Board         JM DensDeck®Prime Roof Board       JM DensDeck®Prime Roof Board         JM DensDeck®Prime Roof Board       ProtectoR™ HD Cover Board <th>Approved JM Insulations: ENRGY 3® (ENRGY 3 Options) CGF FR 20 PSI 25 PSI Tapered Layer 1 Thickness Layer 2 Thickness Layer 3 Thickness Layer 3 Thickness M SECUROCK® Gypsum-Fiber Roof Board Glass-Mat Roof Board JM DEXCELL FA Glass-Mat Roof Board Glass-Mat Roof Board JM DensDeck Roof Board JM DensDeck Prime Roof Board Thermal Barrier Thickness</th> <th>Approved Vapor Barrier: (If Applicable) DynaBase®(CA) (HA) DynaBase PR (CA) (HA) GlasPly®IV (HA) GlasPlyPremier (HA) APPeX®4S (HW) DynaWeld™Base (HW) DynaWeld™Base (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</th> <th>Approved Base Sheets: (If Applicable) Over Nailable Deck DynaBase® DynaFast®180 S DynaLastic®180 S GlasBase™ Plus GlasTite®Flexible PermaPly®28 Ventsulation®Felt Deck Type: Existing Roof (re-cover) Steel (22 Ga. Min.) Structural Concrete Nailable Decks include: Cementitious Wood Fiber Gypsum Lightweight Insulating Concrete Wood (Plywood, Plank, OSB)</th>	Approved JM Insulations: ENRGY 3® (ENRGY 3 Options) CGF FR 20 PSI 25 PSI Tapered Layer 1 Thickness Layer 2 Thickness Layer 3 Thickness Layer 3 Thickness M SECUROCK® Gypsum-Fiber Roof Board Glass-Mat Roof Board JM DEXCELL FA Glass-Mat Roof Board Glass-Mat Roof Board JM DensDeck Roof Board JM DensDeck Prime Roof Board Thermal Barrier Thickness	Approved Vapor Barrier: (If Applicable) DynaBase®(CA) (HA) DynaBase PR (CA) (HA) GlasPly®IV (HA) GlasPlyPremier (HA) APPeX®4S (HW) DynaWeld™Base (HW) DynaWeld™Base (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	Approved Base Sheets: (If Applicable) Over Nailable Deck DynaBase® DynaFast®180 S DynaLastic®180 S GlasBase™ Plus GlasTite®Flexible PermaPly®28 Ventsulation®Felt Deck Type: Existing Roof (re-cover) Steel (22 Ga. Min.) Structural Concrete Nailable Decks include: Cementitious Wood Fiber Gypsum Lightweight Insulating Concrete Wood (Plywood, Plank, OSB)
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SeparatoR<sup>®</sup> CGF Recover Board Cover Board Thickness \_\_\_\_\_



# ADHERED PVC ASSEMBLY PLATE

# 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 PVC Application Guide as part of this specification.

# Deslgn

Consider local conditions and characteristics when designing, specifying and installing any roofing system. Information from the Single Ply Roofing Industry (SPRI), FM Global<sup>®</sup> 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.

# PVC Membrane Application

Before installation, unroll the JM PVC membrane and allow it to "relax". The laps of JM PVC adhered systems must be hot air welded. Clean all surfaces to be welded. Follow manufacturer's operating instructions for welding equipment. All heat welded laps must be a minimum of 1 1/2" (38 mm) in width. Do not apply adhesive to the lap areas of the sheet that will be welded. Refer to detail P-MS-07 for heat welding lap information. Refer to the JM PVC Application Guide for further information.

PVC Edge Sealant is optional on all cut or non-encapsulated edges of reinforced membrane. This includes factory cut membrane. Refer to detail P-MS-01 for further information.

Appropriate JM Membrane Adhesives include:

- JM PVC Membrane Adhesive (Low VOC)
- JM PVC Water Based Membrane Adhesive
  Roofing System Urethane Adhesive (RSUA)
- Rooting System Urethane Adhesive (F (Fleece Backed Only)
- JM Two-Part Urethane Insulation Adhesive Canister (2P UIA) using the spatter method (Fleece Backed Only)
- Hot Asphalt (Fleece Backed Only)

When installing a Water 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. Once the adhesive becomes tacky to the touch but with no stringers on the substrate only, and dry slightly to the point where stringers are visible on the membrane, carefully roll the membrane to the substrate. For porous substrates such as wood and gypsum, apply more adhesive to the substrate. Low VOC adhesive can be used to bond JM PVC membrane to both horizontal and vertical surfaces. Refer to detail P-FW-M11 for further information.

When installing a water based, one sided application with fleece backed membrane ONLY, apply adhesive to the substrate only, not to the membrane or in the weld area - refer to details P-MS-07 & P-MS-08. Keep both surfaces clean and dry. Apply adhesive to the substrate at the rates listed on specific product data sheets. Assemble membrane and substrate while the adhesive on the substrate is still wet. Refer to the Fully Adhered Systems section in the JM PVC Application Guide for further information.

When installing a Fleece Backed Membrane in urethane adhesive (beads of RSUA or spatter JM 2P UIA Canister), apply the adhesive directly to the substrate and allow it to begin to rise and build body before placing membrane into the adhesive. Membrane attachment requires the membrane be rolled with a 150 lb. roller to ensure positive contact between membrane and substrate. Refer to the installation instructions for JM urethane in the application guide and follow the application instructions for the type of adhesive utilized.

When installing a Hot Asphalt application for fleece backed membrane, the membrane must be firmly and uniformly placed in a full mopping of hot asphalt, without voids. Asphalt must not be applied to the selvage edges of the fleece backed membrane to allow for a minimum 1 1/2" (38 mm) weld. The maximum sheet width for PVC Fleece Backed Hot Asphalt application is 12 feet with two installers.

# JM PVC Profiles

JM PVC Profiles are installed on fully adhered membrane only. For the purpose of drainage, install the PVC membrane sheets parallel with the roof slope. Install JM PVC Profiles by heat welding the bottom flange on both sides in the same direction as the PVC membrane sheets to prevent the JM PVC Profiles from crossing over any seams. Refer to details P-MS-12, P-MS-14, P-MS-15 and P-MS-16 for further information.

# Flashings and Components

Refer to the JM PVC Flashing Details in the PVC Roofing Systems Application Tools. Refer to the JM PVC Accessories Schematic and the JM PVC Accessories Selector Guide for available System Components.

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

# 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 PVC 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. Install board products using bead method only.

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. \* UIA spatter not approved.

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. 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 Instructions document for further information.

Appropriate JM Insulation Fasteners Include:

- All Purpose Fasteners
- UltraFast Fasteners and Plates
- Structural Concrete Deck Fasteners and PlatesPolymer 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. Refer to the Fastening Patterns in the PVC Roofing Systems Application Tools.

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 PVC Adhered Membrane-Fastened Insulation FM Approvals document for Single Ply System Code and FM Global Approval information.

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

# Vapor Barrler 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.

# **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. 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.