



# JM Vapor Barrier

Field Guide





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## 1.0 Introduction to JM Vapor Barriers

This guide provides product and application information from JM roofing systems for air and vapor barrier options. This information is provided as a guide and should be used in conjunction with membrane installation instructions as well as the most current information on JM.com.

Vapor retarders prevent moisture or condensation from entering the building or passing from the building into the roof system. Vapor retarders are divided into 3 classes based on the ability of the material to retard the diffusion of water vapor. This ability is measured and reported in units known as perms. The products listed in this manual are all classified as Class 1 vapor retarders.

Class I- 0.1 perms or less, commonly referred to as Vapor Barriers

Class II- >0.1 perms and  $\leq$ 1.0 perms

Class III- >1.0 perms and  $\leq$ 10 perms

To provide an effective shield against water vapor, vapor retarders should be sealed off at roof edges and all penetrations.

Determining whether to incorporate a vapor barrier into the roofing system is the responsibility of the architect, engineer, or building owner. Vapor retarders can provide benefit in properly designed systems, but improper specification or design can impact product and system performance.

Air barriers should be considered on jobs where high internal air pressure exists, such as airport hangars or distribution warehouses with many outside openings (such as loading docks), outdoor amphitheatres, etc.

## 2.0 Product Breakdown

The following is a breakdown of the most used JM vapor retarder products. Additional JM products may function as a vapor retarder to meet specific project needs. Please contact JM Technical Services for additional information.

### Self-Adhered

#### **JM Vapor Barrier SA**



JM Vapor Barrier SA is composed of a tri-laminate woven polyethylene, non-slip, UV-protected top surface and a self-sealing SBS rubber and asphalt blend. Self-sealing properties are reliant on penetrating fastener being left in place. JM Vapor Barrier SA can be used for temporary weather protection for up to 90 days. All laps should be sealed with JM Single Ply Low VOC caulking with long term exposure, and positive slope with adequate drainage is required. Should ponding occur, standing water must be removed within 48 hours. Temporary exposure limits may vary based on project conditions. JM Vapor Barrier SA has a full width silicone release liner that is removed during installation.

Coverage	468 ft <sup>2</sup> (43.5m <sup>2</sup> ) with 3" side lap
Thickness	31.5 mil (0.8mm)
Roll Weight	80 lbs (35.8 kg)
Water Vapor Permeance	<0.03 perms
Air Permeability	E2178- <0.002 L/s/m <sup>2</sup>
Installation/Application	Self-Adhered

### **JM Vapor Barrier SAR**



JM Vapor Barrier SAR is composed of a tri-laminate woven polyethylene, non-slip, UV-protected top surface, a fiber glass reinforcement, and a self-sealing SBS rubber and asphalt blend. Self-sealing properties are reliant on penetrating fastener being left in place. JM Vapor Barrier SAR can be used for temporary weather protection for up to 90 days. All laps should be sealed with JM Single Ply Low VOC caulking with long term exposure, and positive slope with adequate drainage is required. Should ponding occur, standing water must be removed within 48 hours. Temporary exposure limits may vary based on project conditions. JM Vapor Barrier SAR has a split-back release liner that is removed during installation.

Coverage	318 ft <sup>2</sup> (29.5m <sup>2</sup> ) with 3" side lap
Thickness	47 mil (1.2mm)
Roll Weight	80 lb (35.8 kg)
Water Vapor Permeance	0.02 perms
Air Permeability	E2178- <0.001 L/s/m <sup>2</sup> E283- <0.002 L/s/m <sup>2</sup>
Installation/Application	Self-Adhered

### **JM Vapor Barrier FR Max**



JM Vapor Barrier FR Max is composed of a tri-laminate woven polyethylene, non-slip, UV-protected top surface, and a self-sealing high tack acrylic adhesive. JM Vapor Barrier FR Max is ideal for use directly over metal decks in mechanically fastened systems. Self-sealing properties are reliant on penetrating fastener being left in place. JM Vapor Barrier FR Max can be used for temporary weather protection for up to 180 days. All laps should be sealed with JM Single Ply Low VOC caulking with long term

exposure, and positive slope with adequate drainage is required. Should ponding occur, standing water must be removed within 48 hours. Temporary exposure limits may vary based on project conditions. JM Vapor Barrier FR Max has a split-back release liner that is removed during installation.

Coverage	949 ft <sup>2</sup> (88.2m <sup>2</sup> ) with 3" side and end lap
Thickness	14 mil (0.36mm)
Roll Weight	80 lb (31.8 kg)
Water Vapor Permeance	0.04 perms
Air Permeability	E2178 - 0.005 L/s/m <sup>2</sup>
Installation/Application	Self-Adhered

### ***DynaGrip Base SD/SA and DynaGrip Base PR SD/SA***



DynaGrip Base SD/SA and DynaGrip Base PR SD/SA are composed of a reinforcement with a self-sealing SBS rubber and asphalt blend. Self-sealing properties are reliant on penetrating fastener being left in place. DynaGrip Base SD/SA is manufactured with a fiber glass reinforcement and DynaGrip Base PR SD/SA is manufactured with a polyester reinforcement. Both products have a sanded top surface and a split-back release liner that is removed during installation. Exposure limits are contingent on project conditions and system being installed above the vapor retarder. Contact JM for additional guidance on individual projects.

	DynaGrip Base SD/SA	DynaGrip Base PR SD/SA
Coverage	194 ft <sup>2</sup> (18.0m <sup>2</sup> ) with 4" side lap	148.2 ft <sup>2</sup> (13.8m <sup>2</sup> ) with 4" side lap
Thickness	70 mil (1.78mm)	106 mil (2.7mm)
Roll Weight	86 lb (39.1 kg)	95 lb (43.1 kg)
Water Vapor Permeance	0.025 perms	0.025 perms
Installation/Application	Self-Adhered	Self-Adhered
ASTM	D4601	D6164, Type I, Grade S

## Hot Asphalt/Cold Adhesive

### *DynaBase/DynaBase PR*

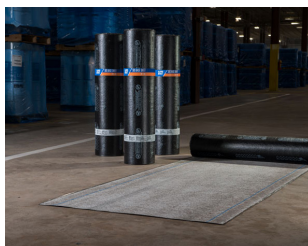


DynaBase and DynaBase PR are composed of a reinforcement coated with a SBS rubber and asphalt blend. DynaBase is manufactured with a fiber glass reinforcement and DynaBase PR is manufactured with a polyester reinforcement. Both products have sanded top and bottom surfaces. DynaBase PR may be utilized in partially adhered ribbon applications using DynaSet 1k over substrates that potentially contain moisture. Exposure limits are contingent on project conditions and system being installed above the vapor retarder. Contact JM for additional guidance on individual projects.

	DynaBase	DynaBase PR
Coverage	148.2 ft <sup>2</sup> (13.8m <sup>2</sup> ) with 4" side lap	148.2 ft <sup>2</sup> (13.8m <sup>2</sup> ) with 4" side lap
Thickness	91 mil (2.3mm)	91 mil (2.3mm)
Roll Weight	83 lb (37.6 kg)	85 lb (38.6 kg)
Water Vapor Permeance	0.005 perms	0.012 perms
Installation/ Application	Hot Asphalt, Cold Adhesive	Hot Asphalt, Cold Adhesive, Mechanically Fastened
ASTM	D6163, Type I, Grade S	D6164, Type I, Grade S

## Heat Welded/Torch Applied

### *DynaBase HW/DynaWeld Base/DynaWeld 180 S*



DynaBase HW, DynaWeld Base, and DynaWeld 180 S are composed of a reinforcement coated with a SBS rubber and asphalt blend. DynaBase HW and DynaWeld Base are manufactured using a fiber glass reinforcement, and DynaWeld 180 S is manufactured using a polyester reinforcement. All products have a sanded top surface and a bottom surface consisting of a burn-off film. Exposure limits are contingent on project conditions and system being installed above the vapor retarder. Contact JM for additional guidance on individual projects.

	DynaBase HW	DynaWeld Base	DynaWeld 180 S
Coverage	148.2 ft <sup>2</sup> (13.8m <sup>2</sup> ) with 4" side lap	95.8 ft <sup>2</sup> (8.9m <sup>2</sup> ) with 4" side lap	95.8 ft <sup>2</sup> (8.9m <sup>2</sup> ) with 4" side lap
Thickness	91 mil (2.3mm)	118 mil (3.0mm)	118 mil (3.0mm)
Roll Weight	83 lb (37.6 kg)	84 lb (38.1 kg)	86 lb (39.0 kg)
Water Vapor Permeance	0.025 perms	0.025 perms	0.025 perms
Installation/ Application	Torch Applied	Torch Applied	Torch Applied
ASTM	D6163, Type I, Grade S	D6163, Type I, Grade S	D6164, Type I, Grade S

## Mechanically Fastened

### PermaPly 28 and Ventsulation



PermaPly 28 and Ventsulation are composed of a fiber glass reinforcement and an oxidized asphalt coating. Both products are surfaced with a fine mineral parting agent. Ventsulation may be installed over a substrate that potentially contains moisture. Permaply 28 and Ventsulation should not be left exposed.

	PermaPly 28	Ventsulation
Net Coverage	300 ft <sup>2</sup> (27.9m <sup>2</sup> )	100 ft <sup>2</sup> (9.3m <sup>2</sup> )
Roll Weight	67 lb (30.4 kg)	68 lb (30.8 kg)
Installation/ Application	Mechanically Fastened	Mechanically Fastened
ASTM	D4601, Type II	D4897, Type II

## 3.0 Application and Storage Information

### 3.1 General Application Instructions

All surfaces should be suitable for roofing. Refer to JM Membrane Application Guides for additional information on suitable substrate preparation and installation requirements. Self-adhered membrane performance in particular can be negatively impacted by substrate condition and weather conditions at install. Adhesion tests are recommended for surfaces where conditions may vary.

In the course of construction, vapor barrier membranes are sometimes tasked with temporary weather protection. Membranes in this field guide are not intended to be a standalone roof system, but rather provide limited temporary protection when needed. When used for temporary weather protection, all seams should be properly sealed as outlined in this field guide. Membranes should not be exposed to ponding water

conditions during the temporary exposure period, with standing water removed within 48 hours. Prior to assembling the remainder of the roofing system, an inspection of the exposed membrane should be conducted with repairs made as needed to replace any damages that may have occurred during extended exposures.

### **3.2 General Storage Instructions**

Improper storage of JM membranes, primers, and adhesives can negatively impact product performance. Refer to individual product data sheets for additional information on proper storage conditions.

Self-adhered membranes should be stored outside of direct sunlight and covered in the original packaging shroud. Storing JM Vapor Barrier SA, JM Vapor Barrier SAR, or JM DynaGrip products in direct sunlight will result in a browning of the plastic release liner and may negatively impact product performance. Asphalt-based rolls should be stored on end and maintained in an upright position to prevent damage. Storing the roll on its side may lead to deformation of the roll. JM Vapor Barrier FR Max may be stored on its side. Self-adhered rolls and associated primers should be stored at >60oF (16oC) prior to application.

### **3.3 Primers**

Prior to the application of primers all surfaces must be swept clean and be free from oil, grease, rust, scale, loose paint, dirt, debris, or other materials that may impede adhesion.

JM SA Primer and JM SA Primer Low VOC are composed of SBS rubbers and adhesive-enhancing resins and are designed to enhance the adhesion of JM self-adhering membranes to approved substrates. JM SA Primer and JM SA Primer Low VOC should not be thinned and must be mixed well prior to use. Priming is required for application to plywood, gypsum or concrete board, concrete, or asphalt, and is required on metal if overlying roofing system is not mechanically fastened to the deck. Primers may be applied as a spray or with a brush or roller. Application should be uniform without streaks or puddles. Allow the primer to dry completely and do not accelerate drying by heating. Primer should be tacky, but not transfer to fingers. Primer must be free of dust, frost, or any other debris at the time of membrane application. Refer to product data sheets for additional information on coverage rates, drying times, and other information.

JM All Season Sprayable Bonding Adhesive is an aerosol bonding adhesive that complies with low VOC requirements and can be used in a one-sided application to enhance adhesion of JM self-adhering membranes to approved substrates. Refer to product data sheet and the JM All Season Sprayable Bonding Adhesive Quick Installation Guide for additional information on product, coverage rates, and acceptable substrates.

JM Asphalt Primer is a one-part primer used to prepare substrates prior to the application of hot asphalt, torch applied membranes over certain substrates, or cold adhesive. JM Asphalt Primer may be applied as a spray or with a brush or roller. Refer to product data sheet for additional information on coverage rates and acceptable substrates.

### **3.4 Adhesives**

DynaSet 1K is a moisture-curing, solvent-free one-part adhesive that can be used to adhere JM SBS base sheets in a ribbon pattern or full coverage for vapor retarder applications. Refer to product data sheet and the DynaSet 1K Installation Guide for additional information on the ribbon application.

### **3.5 Self-Adhered SBS Membrane Application**

For JM Vapor Barrier SA, JM Vapor Barrier SAR, and DynaGrip products, please refer to the Johns Manville SBS Application Guide for additional information on the installation of self-adhered SBS membranes.

Membranes should be allowed to relax prior to installation. Roll out vapor barrier membrane into desired location. Be sure to stagger end laps and overlap side laps by a minimum of 3" as indicated by the markings on the filmed surface of JM Vapor Barrier SA and JM Vapor Barrier SAR. DynaGrip products are produced with a self-adhering side lap and a removable release liner. End laps should have a minimum of 6" overlap, and end lap "T" joints should be cut at a 45° angle. At the end laps on steel decks, a 6" metal plate should be installed to support the lap between deck ribs.

For JM Vapor Barrier SA, remove the release liner at an angle to expose adhesive surface. JM Vapor Barrier SAR and DynaGrip products may be installed by folding the membrane in half lengthwise and removing the split back liners individually. Roll the entire surface of the membrane from the center out immediately after installation with a minimum 75 lb roller ensuring full contact between the underside of the membrane and the primer/substrate. Side lap and end laps should be hand rolled as well to ensure full contact. Special attention should be given to end and side lap adhesion.

Inspect installed membrane for fishmouths, tears, voids, or other damage due to misalignment of laps during installation. Repair by priming surface and patching. Patches should extend 6" from repaired area in all directions. Ensure full adhesion of repair patches.

### **3.6 Self-Adhered JM Vapor Barrier FR Max Application**

Roll out vapor barrier membrane into desired location. Side laps should align to the 3" markings on the filmed surface. End laps should be 3", and staggered 6". "T" joints should be rounded. At end laps on steel decks, a 6" metal plate should be installed to support the lap between deck ribs.

Peel a small portion of the split release liner and adhere to substrate. Remove the remaining release liner at a 45-degree angle. The unadhered portion of the membrane should be held tight to remove tension and wrinkling of the roll while the release liner is removed. Roll the entire surface of the membrane from the center out immediately after installation with a minimum 75 lb roller ensuring full contact between the adhesive and the substrate. Repeat liner removal and installation on the other side of the membrane. Alternatively, both liners may be removed concurrently, with the membrane being broomed in as the liners are removed. Side laps and end laps should be hand rolled to ensure full contact. Special attention should be given to end and side lap adhesion.

Inspect installed membrane for fishmouths, tears, voids, or other damage due to misalignment or wrinkling of laps during installation. Hand roll any wrinkles that may be present in the field of the sheet. Repair by patching with additional JM Vapor Barrier FR Max. Patches should extend 6" from repaired area in all directions. Ensure full adhesion of repair patches.

### **3.7 Hot Asphalt Application**

Refer to the Johns Manville SBS Application Guide for information on the application of membranes using hot asphalt.

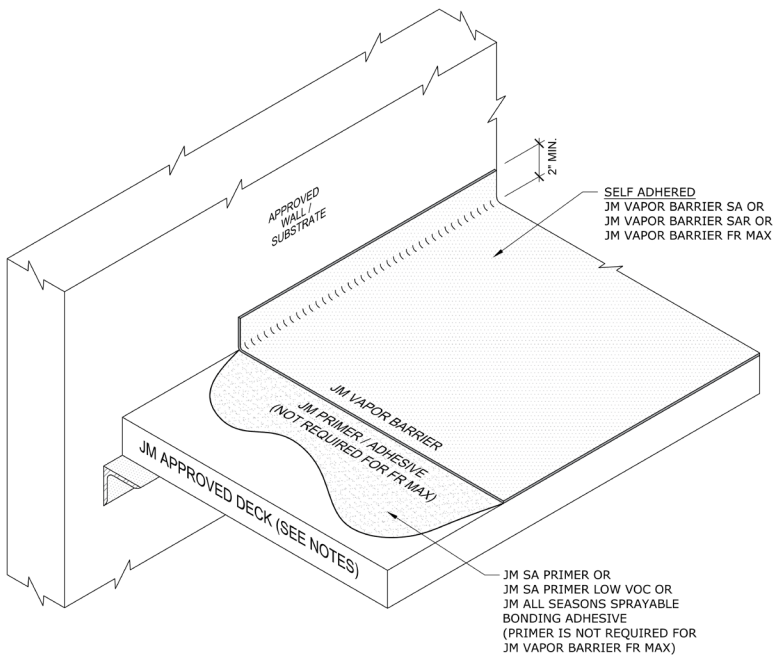
### **3.8 Cold Adhesive Application**

Refer to the DynaSet 1K Installation Guide for information on the application of membranes using the partially-adhered ribbon application process.

## **4.0 Details**

### **Vapor Barrier SA-SAR-FR Max Details**

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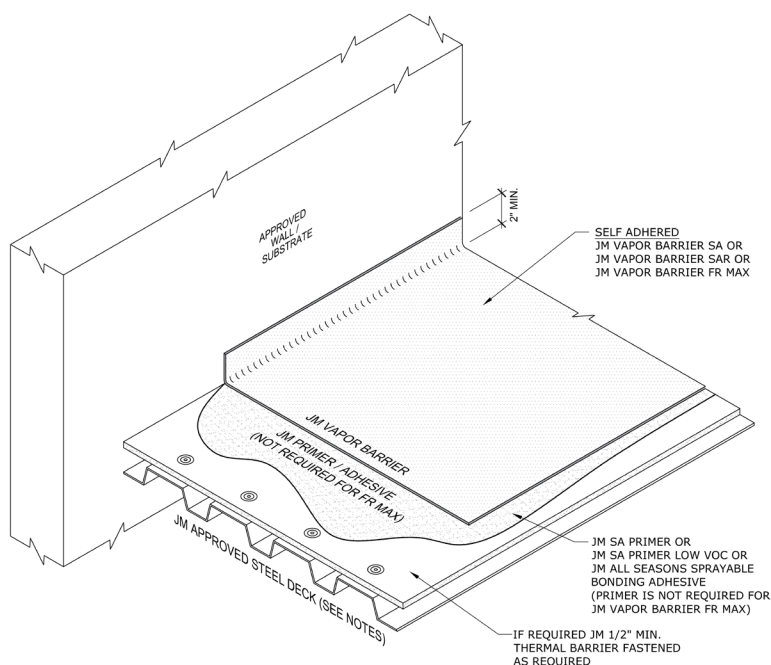
**NOTES:**

1. REFER TO JOHNS MANVILLE WEBSITE ([www.jm.com](http://www.jm.com)) FOR MOST UP-TO-DATE INFORMATION.
2. REFER TO JM VAPOR BARRIER FIELD GUIDE FOR INSTALLATION INSTRUCTIONS AND GENERAL GUIDELINES REGARDING THESE PRODUCTS.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. FOR STEEL DECK SYSTEMS, CERTAIN ASSEMBLIES MAY BE REQUIRED TO HAVE A MINIMUM OF 1/2" THERMAL BARRIER FASTENED TO STEEL DECK BEFORE VAPOR BARRIER IS ADHERED.
5. PRIMER IS OPTIONAL FOR ROOF SYSTEMS WITH A FASTENED BOARD OR MEMBRANE ABOVE THE VAPOR BARRIER.

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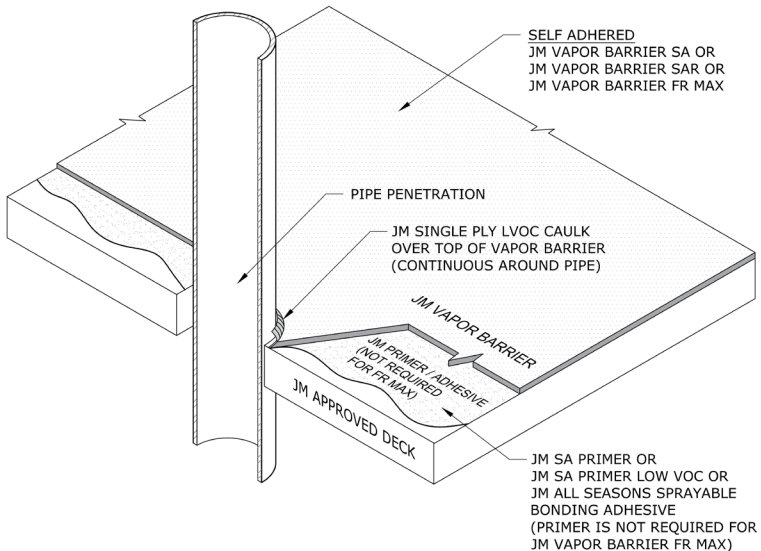
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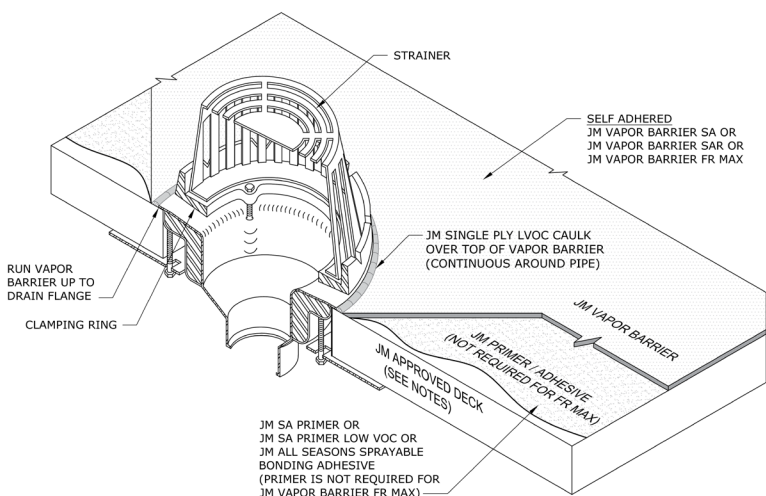
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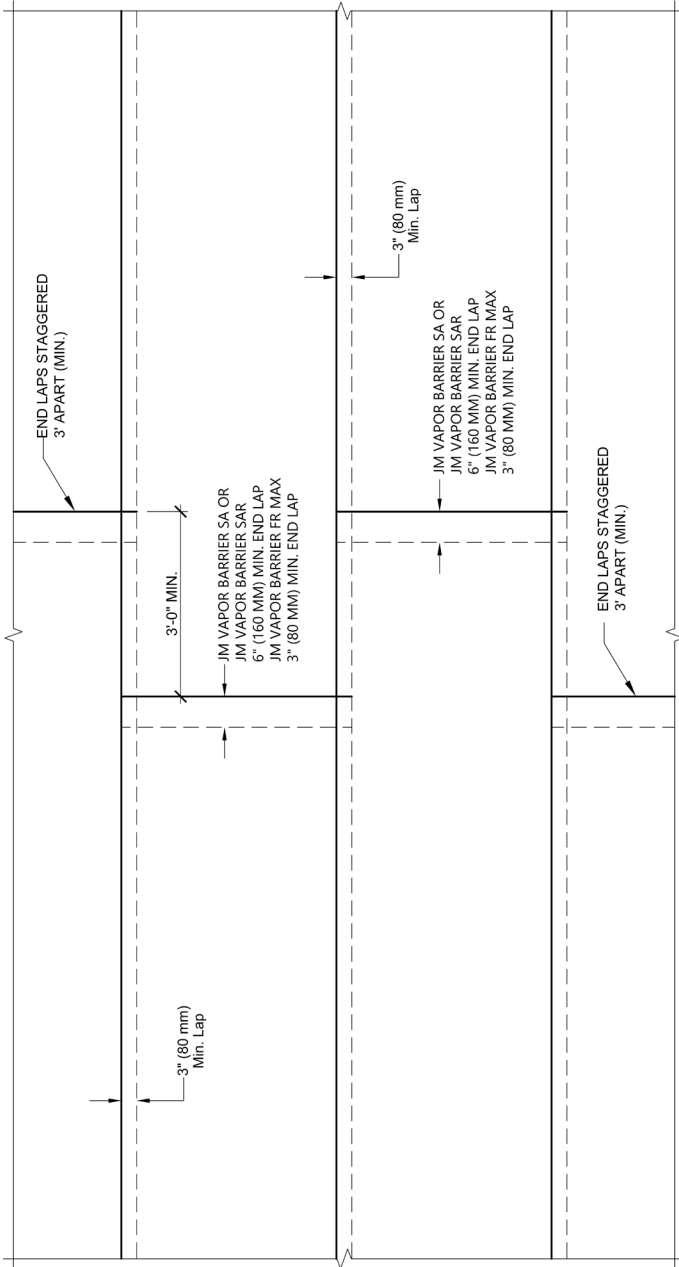
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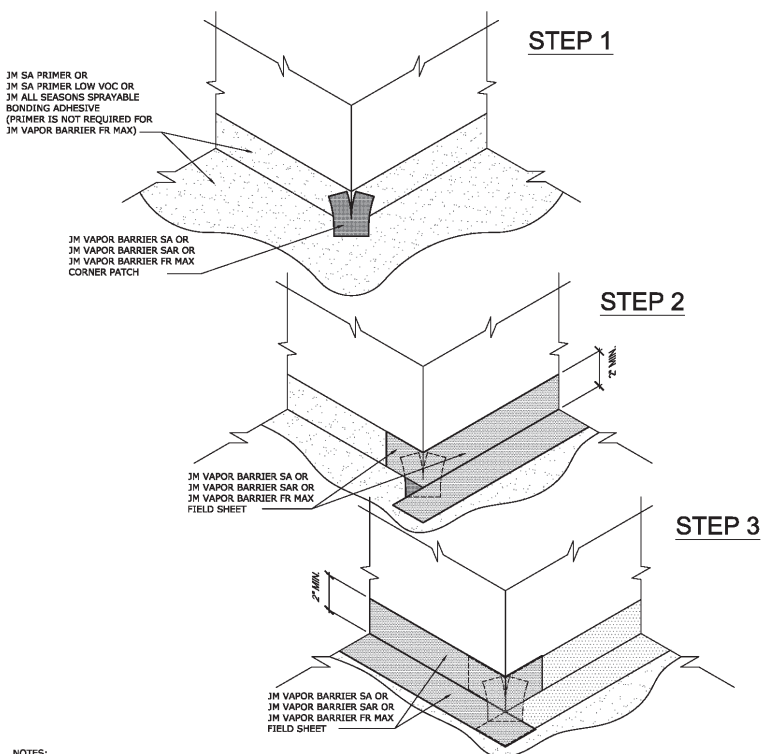


**NOTE**  
 SIDE AND END LAPS SHOULD BE SEALED WITH A BEAD OF JM SINGLE PLY LOW VOC CAULK DURING EXTENDED EXPOSURE OF VAPOR BARRIER MEMBRANES.

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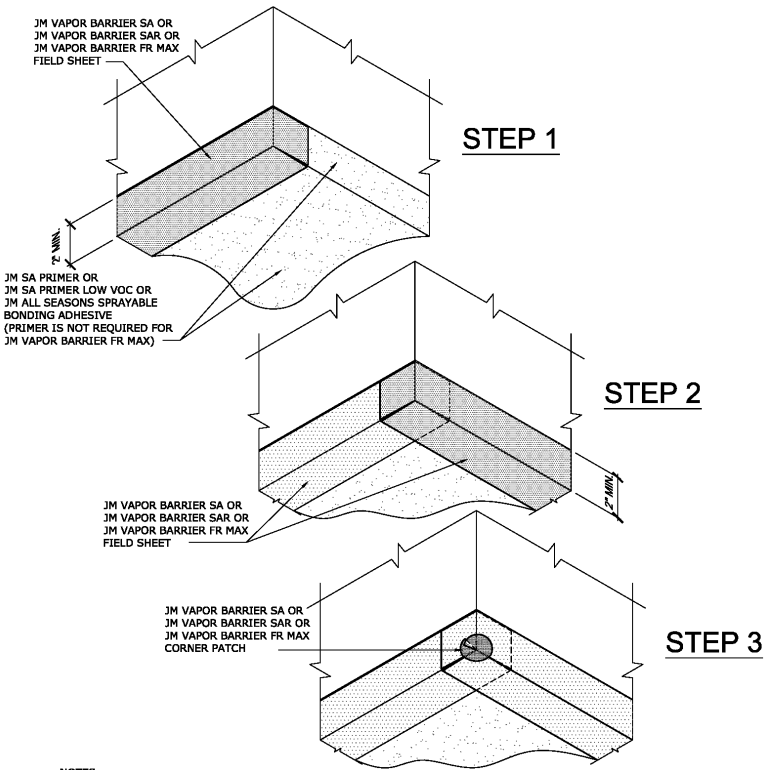
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5. PRIMER IS OPTIONAL FOR ROOF SYSTEMS WITH A FASTENED BOARD OR MEMBRANE ABOVE THE VAPOR BARRIER.

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**Note: For the most current information on general guidelines, please refer to the membrane-specific System Considerations pages under the Commercial Roofing portion of [www.JM.com](http://www.JM.com).**

Refer to the Safe Use Instructions and product label prior to using this product.

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## One manufacturer, one full-system guarantee

Johns Manville offers one of the most comprehensive guarantees in the roofing industry. That's the advantage you can expect from a longtime, dependable leader with the financial backing of Berkshire Hathaway.



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