



**Johns Manville**

**SBS Self-Adhering Specifications  
Specification 3FND-SA1 FR**

**Three-Ply Self-Adhering Modified Bitumen Mineral Surfaced Roofing System. For use over Johns Manville (JM) insulation and approved nailable decks on inclines up to 3" per foot (250 mm/m).**

**Materials per 100 sq. ft. (9.29 m<sup>2</sup>) of Roof Area**

<b>Base Ply:</b>	
DeckPro™ Nailable Base Sheet	1 layer
<b>Intermediate Ply:</b>	
JMCleanBond™ SBS Base	1 layer
<b>Cap:</b>	
JMCleanBond™ SBS Cap	1 layer
Approximate installed weight: 127-167 lbs. (58-76 kgs.)	

**General**

This specification is for use over any type of approved structural deck (without insulation) which can receive and adequately retain nails or other mechanical fasteners that may be recommended by the deck manufacturer. Examples of these decks are wood, plywood, and oriented strand board (OSB). This specification is not for use directly over lightweight insulating concrete decks.

**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 and completely. Areas where water ponds for more than 24 hours are unacceptable and will not be eligible for a JM Roofing System Guarantee.**

**Note:** All general instructions contained in the current JM Commercial/Industrial Roofing Systems Manual shall be considered part of this specification.

**Flashings**

Self-adhering flashing details can be found in the "Bituminous Flashings" section of the JM web site.

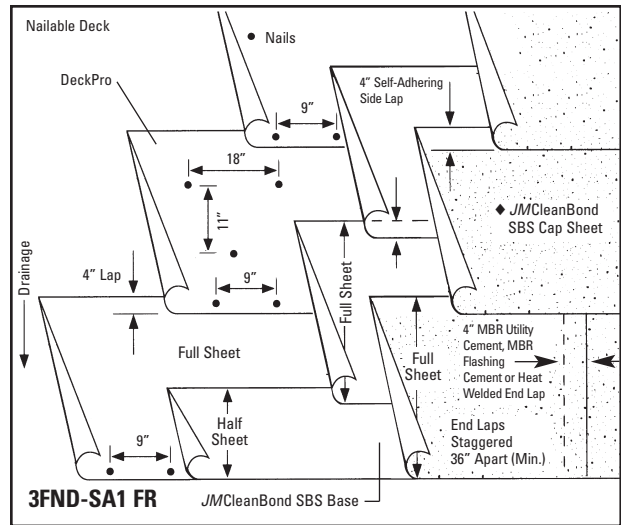
**Application**

Ambient temperature should be 45°F (7°C) or greater to obtain proper adhesion.

**Base Ply Application**

On roof decks with slopes up to 1½" per foot (125 mm/m), the modified bitumen sheets may be installed either perpendicular or parallel to the roof incline.

Starting at the low point of the roof, install one full-width sheet of DeckPro. The remaining sheets of DeckPro are to be applied full width with 4" (102 mm) side and end laps over the preceding sheets. Nail the laps on 9" (229 mm) centers, and down the longitudinal body of each DeckPro



sheet, place two rows of nails, with the rows spaced approximately 11" (279 mm) apart, and nails staggered on approximately 18" (457 mm) centers. Use nails or fasteners appropriate to the type of deck, with 1" (25 mm) minimum diameter caps. For additional fastener information, refer to the fastener data in the "Roof Decks" section of the current JM Commercial/Industrial Roofing Systems Manual.

**Intermediate Ply Application**

Starting at the low point of the roof, install a half-sheet-width piece of JMCleanBond Base Sheet over the previously installed DeckPro base sheet. Remove the bottom release film and roll in the product to ensure full adhesion. Unroll the base sheet (cut to usable lengths) and allow to relax. Position the full-width base sheet, with the bottom film intact, so that the leading edge is lined up with the perforated side lap line of the previously installed half-width base sheet. Fold the full-width base sheet along its length and remove the release film from the selvedge of the half-width base sheet and from the leading half of the bottom of the full-width base sheet. Mate the two self-adhering surfaces from the center of the full-width base sheet to the roof edge. Fold the other half of the full-width base sheet back along its center and repeat the previous process. Roll across the width of (perpendicular to) the base sheets with a 75 to 100 lb. (34 to 45 kg.) split-wheel, weighted roller to ensure full adhesion. The remaining base sheets are to be installed full width in the same manner with a 4" (102 mm) side lap exposure so that at least 1 ply covers the DeckPro at all locations.

**Note:** JMCleanBond SBS Base Sheet needs to be covered with JMCleanBond SBS Cap or Utility Sheet within 48 hours of exposure to direct sunlight.



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### Cap Sheet Application

A) Unroll the cap sheet (cut to usable lengths) and allow to relax. Position the cap sheet (with the bottom release film intact) over the release film of the already installed base sheet (Note: The base sheet side lap should fall centered under the cap sheet). Fold the cap sheet up along its length and remove the exposed half of the release film from the bottom of the cap sheet and the corresponding top release film on the base sheet. Mate the two self-adhering surfaces from the center of the cap sheet to the side lap. Fold the other half of the cap sheet back along its center and repeat the previous process. Align all subsequent cap sheets with the 4" (102 mm) side lap of the previous installed cap sheet and repeat the process as described above. After all cap sheets are installed, roll across the width first, then lengthwise with a 75 to 100 lb. (34 to 45 kg.) split-wheel, weighted roller, to ensure full adhesion.

B) Prepare all 4" (102 mm) end laps by first removing all loose granules. Then, with a hot air gun, apply heat to the 4" (102 mm) end lap making sure both sheets have a good compound flow to adhere the two surfaces. The granules on the bottom cap sheet should "sink" into the asphalt. All laps must be rolled with a rounded edge roller. A 1/8" to 3/8" (3 mm to 10 mm) bleedout of SBS compound shall be visible at the edge of all seams. All laps must be checked for good adhesion.

Or ...

C) Prepare all 4" (102 mm) end laps by removing all loose granules, then apply MBR® Utility Cement or MBR® Flashing Cement to the 4" (102 mm) end laps and mate the end lap surfaces. Ensure full coverage and check for good adhesion.

**Application of JM SBS Modified Bitumen Products may require the use of a hot air gun. Improper use of these materials and application equipment can result in severe burns and/or other physical injury, as well as damage to property. In order to prevent these situations, the mechanic must install the materials using the techniques recommended by JM.**

### Steep Slope Requirements

Special procedures are required on inclines over 1½" per foot (125 mm/m).

Self-adhering SBS roofing membranes can be applied on inclines up to 3" per foot (250 mm/m) when proper precautions are taken.

On decks with slopes over 1½" per foot (125 mm/m), the roofing felts must be installed parallel to the incline. Nail the end laps of the modified bitumen cap sheet across the width of the sheet on 8½" (216 mm) centers. All nails are to be covered by the lap of the next sheet.

### Surfacing

No additional surfacing is required.

