

SBS Cold Application Specifications

Specification 3CLD-CA CR/3FLD-CA CR

3PLD-CA CR

Three-Ply Cold Process Modified Bitumen Mineral-Surfaced Roofing System. For use over approved lightweight, insulating fill decks on inclines up to 3" per ft (250 mm/m).

Materials per 100 ft² (9.29 m²) of roof area

Felts:


Base: Ventsulation Felt, GlasBase Plus, DynaBase or PermaPly 28	1 layer
Intermediate: DynaBase, DynaPly, GlasBase Plus, PermaPly 28 or DynaLastic 180 S	1 layer

Cap: ♦

3CLD-CA CR—DynaKap FR CR	
3FLD-CA CR—DynaGlas FR CR	
3PLD-CA CR—DynaLastic 180 FR CR or DynaLastic 250 FR CR	1 layer

Approximate installed weight: 165 - 360 lb (75 - 163 kg).

Energy and the Environment

 <p>Cool Roof Rating Council</p>		Initial	Weathered
	Solar Reflectance	0.76	Pending
	Thermal Emittance	0.85	Pending
	Rated Product ID	0662-0007	
	Licensed Manufacturer ID	0662	
	Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary.</small>			
<small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.</small>			

General

This specification is for use over any type of approved, lightweight, insulating fill deck (without insulation) which can receive and adequately retain mechanical fasteners that may be recommended by the deck manufacturer. Examples of these decks are lightweight, insulating concrete, either cellular-type or aggregate-type. Ventsulation venting base felt is recommended over any wet fill deck, and may be required as a condition of guarantee. JM also recommends the use of FP-10 One-Way Roof Vents over some types of wet fill 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 Peak Advantage Guarantee.

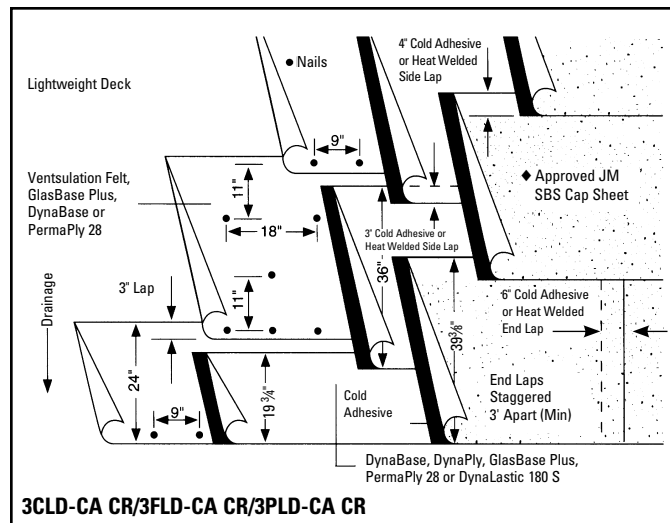
Flashings

Flashing details can be found in the "Bituminous Flashings" section of the JM Commercial/Industrial Roofing Systems Manual.

Application

On roof decks with slopes up to ½" per ft (41 mm/m), the roofing felts and modified bitumen sheets may be installed either perpendicular or parallel to the roof incline.

Using one of the base felts listed, start with a piece 24" (610 mm) wide. The remaining felts are to be applied full width with 3" (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Nail the laps at 9" (229 mm) centers, and down the longitudinal center of each felt 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. Consult the current FM ApprovalsSM RoofNav for the appropriate base sheet, fastener type and pattern. For additional fastener information, refer to the "Roof Decks" section of the current JM Commercial/Industrial Roofing Systems Manual.



Roll a 19¾" (502 mm) wide piece of one of the intermediate felts listed into a full coating of MBR Cold Application Adhesive or MBR Bonding Adhesive. The remaining felts are to be applied full width, in the same manner. End and side laps can be done in one of the following ways:

- A) Use MBR Cold Application Adhesive or MBR Bonding Adhesive on the 3" (76 mm) side and 6" (152 mm) end lap. **Or...**
- B) Use a hot air gun or torch on the 3" (76 mm) side and 6" (152 mm) end lap. All laps must be rolled with a 3" (76 mm) rounded edge roller. A ⅛" to ⅜" (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.

Cap sheet application is accomplished in one of the following ways:

- A) Apply a full width piece of one of the cap sheets listed into a full coating of MBR Cold Application Adhesive or MBR Bonding Adhesive. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. A slop sheet can be positioned upside down, directly over the sheet in the preceding course such that only the side lap area of the preceding sheet is exposed. Adhesive is applied in the same manner as before, making sure to also cover the full width of the lap. This slop sheet can help limit adhesive on the white coating.

Or...

- B) Prepare the 6" (152 mm) end lap by removing all loose granules. Heat and embed all remaining granules with a hot air gun or torch. Apply heat to the 3" (76 mm) side and 6" (152 mm) end lap making sure both have a good compound flow to adhere the two surfaces. All laps must be rolled with a 3" (76 mm) rounded edge roller. A ⅛" to ⅜" (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.

Refer to the Material Safety Data Sheet and product label prior to using this product.



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Application of JM SBS Modified Bitumen Products may require the use of a hot air gun or torch. 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 and those found in "A Guide to Safety: Torch-On Modified Bitumens" available from the Asphalt Roofing Manufacturers Association. These techniques have been endorsed by the National Roofing Contractors Association and the United Union of Roofers, Waterproofers and Allied Workers.

Note: When using metric- and English-sized base and cap sheets in the same system, care must be taken to avoid lap over lap configurations.

For cold weather application techniques, refer to Paragraph 24.0 of Section 3d of the JM Commercial/Industrial Roofing Systems Manual.

Steep Slope Requirements

Special procedures are required on inclines over $\frac{1}{2}$ " per ft (41 mm/m). Refer to Paragraph 21.0 of Section 3d of the JM Commercial/Industrial Roofing Systems Manual.

Finishing

It is important to be careful with adhesive when applying the coated SBS sheets on the roof. However, if it is desired to cover the small amount of adhesive that bleeds out of the side or end laps, the laps could be dressed up with coating to give the roof surface a uniform white appearance. This should not be done until the adhesive has set up completely. This is an optional step and is at the discretion of the building owner, consultant or applicator. JM recommends using a heavy nap roller, in a 4" (102 mm) width, to coat the exposed adhesive with a JM-recommended white acrylic coating.

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