

**Four-Ply Hot Mopped 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 ft<sup>2</sup> (9.29 m<sup>2</sup>) of roof area**

**Sheathing Paper:** Wood board decks only 1 layer

**Felts:**

Base: Ventsulation Felt, GlasBase Plus, DynaBase or PermaPly 28 1 layer

Intermediate: GlasPly Premier or GlasPly IV 2 layers

**Cap: ♦**

4CLD CR—DynaKap FR CR

4FLD CR—DynaGlas FR CR

4PLD CR—DynaLastic 180 FR CR or DynaLastic 250 FR CR 1 layer

**Asphalt:** Trumbull®\* or other JM-approved asphalt


**Incline per foot Asphalt Total Weight**

Up to ½" (41.6 mm/m) 190°F (88°C), Type III, Steep 69 lb (31 kg)

½" to 3" (41.6 to 250 mm/m) 220°F (104°C), Type IV, Special Steep 69 lb (31 kg)

Approximate installed weight: 195 - 410 lb (88 - 186 kg).

**Energy and the Environment**

 <p>COOL ROOF RATING COUNCIL</p>	Solar Reflectance	Initial 0.76	Weathered 0.61
	Thermal Emittance	0.85	0.92
	Rated Product ID	0662-0007	
	Licensed Manufacturer ID	0662	
	Classification	Production Line	
<p>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.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.</p>			

**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.**

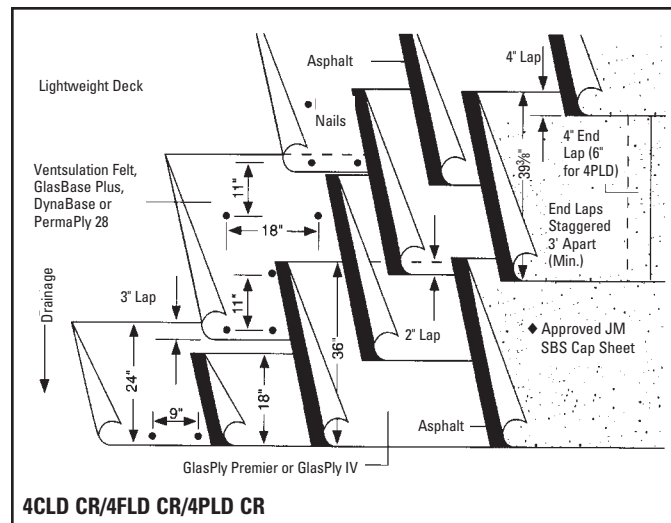
**Note:** All general instructions contained in the current JM Commercial/Industrial Roofing Systems Manual shall be considered part of this specification.

**Flashings**

Flashing details can be found in Section 3 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 Approvals<sup>SM</sup> 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 an 18" (457 mm) wide piece of one of the intermediate felts listed into a full mopping of asphalt. Over that, apply a full width piece. The remaining felts are to be applied full width, overlapping the preceding felts by 19" (483 mm), so that at least 2 plies of felt cover the base felt at all locations.

Apply a full width piece of one of the cap sheets listed into a full mopping of asphalt. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and end laps over the preceding sheets (6" [152 mm] end laps for DynaLastic products). 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. Asphalt 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 asphalt bleedout onto the white coating.

Apply all felts so that they are firmly and uniformly set, without voids, into the hot asphalt. Asphalt temperature should be at the Equiviscous Temperature (EVT), ±25°F (±14°C), at the point of application. All felt edges shall be well sealed. The asphalt shall be applied just before the felt, at a nominal rate of 23 lb/100 ft<sup>2</sup> (1.1 kg/m<sup>2</sup>). For modified bitumen sheets, the asphalt temperature shall be at a minimum of 400°F (204°C) when the sheet is set into it. This higher temperature maximizes the bonding of the modified bitumen sheet.

**Cap sheets with polyester reinforcement must be allowed to relax in an unrolled position prior to installation.**

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

\* Trumbull is a registered trademark of Owens Corning.

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



## SBS Asphalt-Applied Specifications 4CLD CR/4FLD CR/4PLD CR (cont'd)

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### Steep Slope Requirements

Special procedures are required on inclines over ½" per foot (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 asphalt when applying the coated SBS sheets on the roof. However, if it is desired to cover the small amount of asphalt 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 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 asphalt with a JM-recommended white acrylic coating.

### Asphalt

Asphalt should meet the requirements of ASTM D 312.

JM guarantees require the use of Trumbull®\* asphalt or another JM-approved asphalt.

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