



SBS Modified Bitumen Specifications Specification 5CLD/5FLD/5PLD

Five Ply Hot Mopped Modified Bitumen Mineral Surfaced Roofing System. For use over approved lightweight, insulating fill decks on inclines up to 3" per foot (250 mm/m).

Materials per 100 sq. ft. (9.3 m²) of Roof Area

Sheathing Paper:

Wood board decks only 1 layer

Felts:

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

Intermediate: GlasPly Premier or GlasPly IV 3 layers

Cap: ♦

5CLD—DynaKap or DynaKap FR

5FLD—DynaGlas, DynaGlas FR or DynaGlas 30 FR

5PLD—DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 or DynaLastic 250 FR 1 layer

Asphalt (Refer to Para. 7A.8): Trumbull®* or other JM Approved Asphalt		
Incline per foot	Asphalt	Total Weight
Up to 1/2" (41.6mm/m)	190°F (88°C), Type III, Steep	92 lbs. (42 kgs.)
1/2" to 3" (41.6 to 250 mm/m)	220°F (104°C), Type IV, Special Steep	92 lbs. (42 kgs.)

Approximate installed weight: 195 - 410 lbs. (88 - 186 kgs.).

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 Roofing System Guarantee.

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

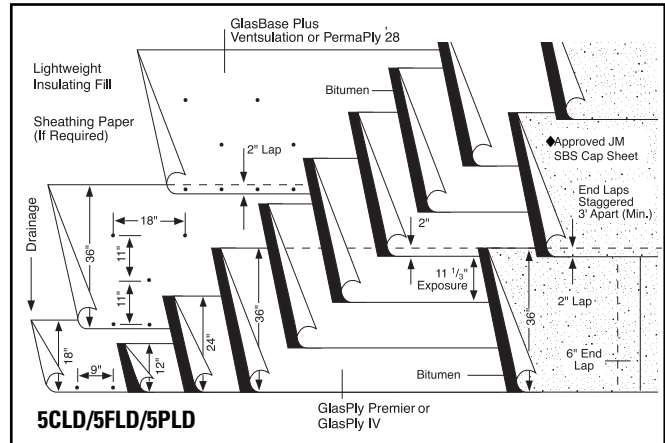
Flashings

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 1/2" per foot (41.6 mm/m), the roofing felts and modified bitumen sheets may be installed either perpendicular or parallel to the roof incline.

Using GlasBase Plus, Ventsulation or PermaPly 28 start with an 18" (457 mm) wide piece (a specific base sheet may be a condition of Guarantee). The following base sheet courses are to be applied full width, lapping the preceding felt 2" (51 mm) on the side laps and 4" (102 mm) on the end laps. Nail the side laps 9" (229 mm) o.c. Down the longitudinal center of each felt, place two rows of nails spaced approximately 11" (279 mm) apart, with the 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 Deck" section of the current JM Commercial/Industrial Roofing Solutions Manual.



Using GlasPly Premier or GlasPly IV, apply a piece 12" (305 mm) wide, then over that, one 24" (610 mm) wide, then over both, a full width piece. The following felts are to be applied full width overlapping the preceding felts by 24 2/3" (627 mm) so that at least 3 plies of felt cover the base felt/substrate at all locations. Install each felt so that it is firmly and uniformly set, without voids, into the hot bitumen (within ±25°F [±14°C] of the EVT) applied just before the felt at a nominal rate of 23 lbs. per square (1.1 kgs./m²) over the entire surface. Installation over porous substrates such as roof insulation may require up to 33 lbs. per square (1.6 kgs./m²) of hot bitumen.

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).

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 lbs. per square (1.1 kgs./m²). 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.

For cold weather application techniques, refer to **Paragraph 7A.24**.

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

Steep Slope Requirements

Special procedures are required on inclines over 1/2" per foot (41.6 mm/m). Refer to **Paragraph 7A.21**.

Surfacing

No additional surfacing is required.

Asphalt

Asphalt should meet the requirements of ASTM D 312.

JM Guarantees require the use of Trumbull®* asphalt or another JM Approved Asphalt.

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

* Trumbull is a registered trademark of Owens Corning.