SBS Heat-Weld Specifications
3FID MA/HW CR, 12" Over Lap

Three-Ply Mechanically Attached Heat-Welded Modified Bitumen Mineral-Surfaced Roofing System. For use over Johns Manville (JM) insulation or approved decks on inclines up to 6" per ft (500 mm/m).

Materials per 100 ft² (9.29 m²) of roof area

Base:	
DynaLastic 180 S	1 layer
Intermediate Plies:	
DynaWeld Base	1 layer
Cap:	
DynaWeld Cap FR CR	1 layer

Approximate installed weight: 185 - 270 lb (84 - 122 kg)

Energy and the Environment

	Initial	3-Yr. Aged
Solar Reflectance	0.76	0.61
Thermal Emittance	0.85	0.92
Rated Product ID	0662-0007	
Licensed Manufacturer ID	0662	
Classification	Production Line	

CRRC COOL ROOF RATING COUNCIL ®

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.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.

General

This specification is for use over an approved steel deck which is not nailable and which provides a suitable surface to receive the roof. Insulation should be installed in accordance with the appropriate JM insulation specification detailed in the JM Commercial/Industrial Roofing Systems Manual. This specification can also be used in certain re-roofing situations. Refer to the "Re-roofing" section of the JM Commercial/Industrial Roofing Systems Manual.

Design and installation of the deck and/or substrate must result in the roof draining freely and 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 are not eligible to receive a JM Peak Advantage Guarantee.

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

Flashings

Flashing details can be found in Section 3 of the JM Commercial/Industrial Roofing Systems Manual.

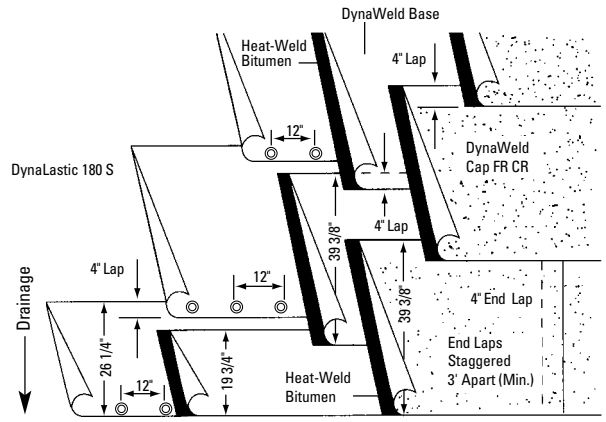
Application

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

Base Ply Application

Starting at the low point of the roof, fasten a 26¼" (667 mm), piece of the base sheet. The remaining plies are to be applied full width, with 4" (102 mm) side and 6" (153 mm) end laps over the preceding sheets.

Sheets should be fastened 12" (306 mm) on center over the side lap with JM-approved plates and fasteners for this system. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side laps and 6" (153 mm) end laps over the preceding sheets.



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Intermediate and Cap Sheet Application

Over the fastened base ply, heat-weld a half width 19¾" (502 mm) piece of one of the intermediate plies listed with 3" (75 mm) side and 4" (102 mm) end laps. The remaining plies are to be full width, heat welded in the same manner, with 4" (102 mm) side and 4" (102 mm) end laps over the preceding sheets.

Heat weld a full width piece of the cap sheet over the installed base sheet. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side laps and 4" (102 mm) end laps over the preceding sheet.

Apply all sheets so that they are firmly and uniformly set, without voids. Using a propane torch, apply the flame to the surface of the coiled portion of the roll. Torch across the full width of the roll and along the lap area. As the surface is heated, it will develop a sheen and the burn-off will disappear. The generation of smoke is an indication that the material is being overheated. Repeat the operation with subsequent rolls, maintaining proper side and end laps. A healthy compound flow will simplify seaming the laps. All laps must be checked for good adhesion.

For special precautions for heat-weld applications, see Paragraph 31.0 of Section 3d of the JM Commercial/Industrial Roofing Systems Manual.

Finishing

It is important to be careful with scorch marks when applying the coated SBS sheets on the roof. However, if scorch marks are a concern of the building owner, consultant or applicator, then the marks could be dressed up with coating to give the roof surface a uniform white appearance. This is an optional step. 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.

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