



Johns Manville

**SBS Modified Bitumen Specifications
Specification 3FID MA/HW, 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 foot (500 mm/m).

Materials per 100 sq. ft. (9.3 m²) of roof area

Base:	
DynaLastic™ 180 S	1 layer
Intermediate Plies:	
DynaWeld™ Base	1 layer
Cap:	
DynaWeld Cap FR	1 layer
Approximate installed weight: 185-270 lbs. (84-122 kgs.)	

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 Solutions Manual. This specification can also be used in certain reroofing situations. Refer to the "Reroofing" section of the JM Commercial/Industrial Roofing Solutions 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 Johns Manville Roofing Systems Guarantee.

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

Flashings

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

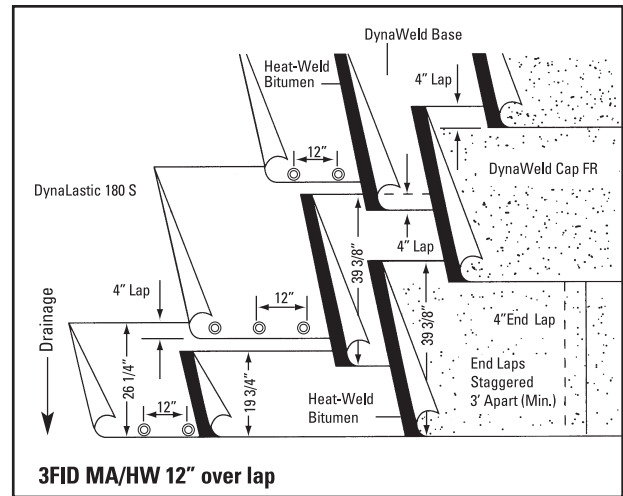
Application

On roof decks with slopes up to 1 1/2" per foot (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 26 1/4" (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.



Intermediate and Cap Sheet Application

Over the fastened base ply, heat-weld a half width 19 3/4" (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.

At the end laps, soften the bitumen by heating the granule surface with the torch. When the granules start to sink into the bitumen, stop torching and with a hot trowel, embed the granules into the bitumen. All laps must be checked for good adhesion.

For special precautions for heat-weld applications, see section 7A.31 of the JM Commercial/Industrial Roofing Manual.

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