Two-Ply SBS Modified Bitumen System with DynaFast Base Sheet In-Lap Fastened at Either 6", 12" or 18" O.C. With Cap Sheet Heat Welded. System Used Over Approved Deck Types With Optional JM Insulation(s) and Cover Boards.

Materials per 100 sq. ft. (9.29 m²) of roof area

| Base Sheet: | Approved JM DynaFast Base Sheet | 1 layer |
| Cap: | JM Approved Cap Sheet Heat Welded | 1 layer |

Installed weight per 100 sq. ft. (9.29 m²) of two-ply roof assembly, including optional insulation and cover board may vary depending upon components utilized.

Deck:
Steel, Concrete, LWIC, Wood, CWF and Gypsum

General
This Specification is for use with DynaFast in-lap fastened systems that are installed over approved decks that comply with IBC Chapter 15 requirements. This specification is for both insulated and noninsulated roof assemblies.

When used, JM roof insulations and/or cover boards shall be installed in accordance with the JM Industrial/Commercial Roofing Solutions Manual, including reference to the "Re-roofing" section of said manual and as found at www.specjm.com

Note: General Instructions found at www.specjm.com and referenced in the current JM Industrial/Commercial Roofing Solutions Manual shall be considered part of this specification.

The designer of record or authority having jurisdiction (AHJ) shall be responsible for the design of the structural components including roof deck securement while their sub-contractors shall install these components in accordance with the IBC, other applicable Code and the contract documents. The finished deck and above-deck components installed shall result in a substrate that drains freely and to outlets in order to remove water. Roof areas where water ponds for more than 24 hours are unacceptable and are not eligible to receive a Johns Manville Roofing Systems Guarantee.

Flashings
Flashings details can be found at www.specjm.com

Application (General)
DynaFast Base Sheets should be installed perpendicular to steel deck ribs. Fasten through the insulation layer and into the top rib of the steel decking whenever possible; while recognizing when 'picture framing' perimeter rolls, the DynaFast Base Sheet may need to be secured to the ribs. Follow current JM Industrial/Commercial Roofing Solutions Manual and detail requirements for DynaFast Base Sheet perimeter securement layouts especially when Wind Rider Guarantees are specified. Current information can be found at www.specjm.com

Project wind uplift pressures are determined by designer of record or AHJ. Depending upon those pressures for Zone 1 (field), Zone 2 (perimeter) and Zone 3 (Corner) mechanically fasten the DynaFast Base Sheet in-lap with one of the available JM Maximum Design Pressure (MDP) tested fastening patterns. JM-approved fasteners are used to secure the DynaFast Base Sheet in-lap at 6", 12" or 18" O.C. Fastener spacing can vary based on the project wind uplift pressure requirements. Wind Riders may require additional fastener rows with cover strips.

Refer to the Material Safety Data Sheet and product label prior to using this product.
Base Sheet Application
Starting at the low point of the roof, fasten a full-width base sheet (bottom layer). Note: minimum side lap and end lap widths are 4" and 6", respectively. Seam plate must be centered to ensure a secure bitumen bond on either side of the plate. The subsequent base sheet (top layer) shall extend past the seam plates of the bottom base sheet a minimum of ¾" (19 mm), creating a minimum 4" wide side lap. Heat weld the side and end laps using a hot-air welder or a medium-sized torch head placed inside the lap using the “torch and roll” heat-welding method. The combination of heat and pressure will ensure a fully bonded lap, producing a 1/8" (3 mm) bleed out visible at the edge of all seams. Verify all seams are watertight and heat weld any voids at the seam. Subsequent layers of base sheets shall be applied in the same manner. Simultaneously apply heat to the top and bottom surfaces of the lap area only. Mate both surfaces together with pressure to ensure contact and a fully welded seam area. A 1/8" (3 mm) bleed out of SBS compound may be visible at the edge of seams. Check for watertight seams and heat weld all voids closed. Periodic seam samples can be extracted to ensure a full weld behind the seam plate. Subsequent DynaFast Base Sheets shall be applied in the same manner.

Cap Sheet Heat Weld Application
Starting at the low point of the roof, center a 1/2-width starter roll of cap sheet between the completed DynaFast Base Sheet side laps and fully heat weld. Maintain minimum 4" (102 mm) side laps, 6" (152 mm) end laps and that subsequent heat-welded cap sheets continue to be centered and aligned over the DynaFast side laps.

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 sheen and the burn-off will disappear. Heat weld subsequent full-width cap sheets in the same manner as the preceding sheets.

A 1/8" (3 mm) bleed out of SBS compound may be visible at the edge of seams. Check for watertight seams and heat weld all voids closed.

Note: Due to the highly reflective surface, CR cap sheets require additional relaxation time prior to application.

Standard Cap Sheet End Lap Surface
At the end laps, soften the bitumen by heating the granule surface with a detail torch or a hand-held, 220v hot-air welding tool with a 3" (76 mm) wide air nozzle. When the granules start to sink into the bitumen, stop heating and with a hot trowel, press/embed the granules into the bitumen. Afterward, simultaneously hot-air weld or heat weld with a detail torch the top and bottom surfaces of the end lap area only, mating both surfaces together with pressure to ensure contact and a fully welded seam area. Check for watertight seams and weld all voids closed.

For special precautions on heat-weld applications, see section 7A.31 of the JM Industrial/Commercial Roofing Solutions Manual at www.specjm.com. Base sheets and cap sheets must be allowed to relax in an unrolled position prior to installation.

Surfacing
No additional surfacing is required. Refer to the “Modified Bitumen Specifications” section of the JM Industrial/Commercial Roofing Solutions Manual at www.specjm.com

Note: For the most current information on general guidelines, please refer to the System Considerations tab under Systems Introduction & Selection on the JM Roofing Web site. For specifications, flashing details and general installation information please refer to the System Application tab.

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