



SBS Heat-Weld Specifications Specification 3FLD-HW

Three Ply Heat Welded Modified Bitumen Mineral Surfaced Roofing System. For use over approved lightweight insulating fill decks on inclines up to 6" per foot (152 mm/m).

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

Base Ply: DynaWeld™ Base, PermaPly 28, or Ventsulation	1 layer
Intermediate Plies: DynaWeld™ Base	1 layer
Cap Sheet Options: DynaWeld™ Cap FR, DynaClad*	1 layer

*DynaClad cannot be used for a membrane on any roof that will have significant foot traffic. Approximate installed weight: 185-270 lbs. (84-122 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 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.

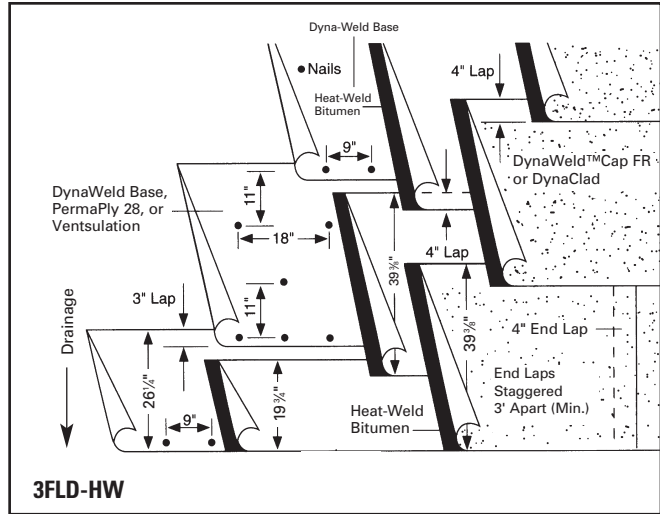
Flashings

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

Application

Using one of the base plies listed, start with a piece 26¼" (665 mm) wide. The remaining plies are to be applied full width with 3" (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Using an approved lightweight insulating fill fastener, nail the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply, 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. For additional fastener information, refer to the fastener data in the "Roof Decks" section of the current JM Commercial/Industrial Roofing Systems Manual.

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 a full width piece of one of the cap sheets listed so that it is firmly and uniformly bonded to the intermediate plies. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 4" (102 mm) end laps over preceding sheets.

Apply all sheets so that they are firmly and uniformly set, without voids. Using a propane torch, apply the flames 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 laps and end laps. A healthy compound flow will simplify seaming at the laps. This is done by keeping the flame directed at the adhered ply and in front of the roll. 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.

Preparation of the 4" (102 mm) lap of DynaClad requires the removal of 4" (102 mm) of metal surfacing, creating the selvedge edge. Next, apply heat to the lap that is being seamed, making sure there is a good compound flow to adhere the two surfaces. Check all laps for good adhesion.

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

For cold weather application techniques, refer to Paragraph 7A.24 of the JM Commercial/Industrial Roofing Systems Manual.

Steep Slope Requirements

Special procedures are required on inclines over 1½" per foot (125 mm/m). Refer to paragraph 7A.21 of the JM Commercial/Industrial Roofing Systems Manual.

Surfacing

No additional surfacing is required.

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