3 PLY TPO HYBRID INCLUDING NAILED BASE SHEET

Assembly Identification

Substrate
N = Nailable

Number of Plies → 3 → 6

Cap Sheet Thickness
T = TPO

Type of Base Sheet
C = SBS Composite
F = SBS Fiberglass
P = SBS Polyester
G = BUR Fiber Glass

Fleece Backed Membrane adhered with JM Approved Hot Asphalt

Intermediate Ply
Polyethylene Reinforced:
- DynaLam Polyethylene
- GlasPly Laminated

Base Sheet (SBS Polyethylene):
- DynaBase®
- GlasTite Flexible

Base Sheet (SBS Fiberglass):
- DynaBase®
- DynaMax™ Smooth

Base Sheet (SBS Composite):
- DynaPly™
- GlasBase™

Cap Sheet
T = TPO

Membrane Type
T = Thermoplastic

Note:
The nailing pattern shown is the minimum allowed pattern.

For JM Guarantee Requirements Contact JM Technical Services at (800) 922-5922 Option 3 or Refer to the JM Peak Advantage Charges and Requirements-Multi Ply document.

RS-1701 03-21 (Replaces 05-20)
General
This specification is for use over any approved structural deck (without insulation) which can: be applied and adequately retain nails or other mechanical fasteners that may be recommended by the deck manufacturer and which provides a suitable surface to receive the roof. This specification can also be used in certain re-roofing applications.

Note:
Consider all general instructions contained in the current JM Thermoplastic Membrane with Redundant Bituminous Ply Systems Installation Guide and the JM SBS Application Guide as part of this specification.

Design
Consider local conditions and characteristics when designing, specifying and installing any roofing system. Information from the Single Ply Roofing Industry (SPRI), Asphalt Roofing Manufacturers Association (ARMA), FM Global and local building codes can provide guidelines for the designer.

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 substantially within 48 hours of a rain event.

Membrane Substrate
The surface on which the built up, SBS modified bitumen or thermoplastic fleece backed membrane is to be applied should be an approved structural substrate. The surface must be clean, smooth, flat and dry. Built Up roofing and SBS modified bitumen should not be applied directly to foam plastic insulations.

Flashings and Components
Refer to the JM TPO Hybrid Details and the JM Thermoplastic Membrane with Redundant Bituminous Ply Systems Installation Guide on the JM website.

Deck Preparation
Before roofing work is started, the deck should be carefully inspected by the roofing contractor, the deck contractor, and the owners representative to determine that it will be able to receive the roofing system by some method which will hold the system securely, either by adhesion, ballast, or mechanical fasteners.


SBS Base Sheet Application
Using one of the base sheets listed, start with a 2½ width sheet. The remaining sheets are to be applied full width with 3” (76 mm) side and 4” (102 mm) end laps over preceding sheets.

Nail per specifications. Use nails or fasteners appropriate for the deck type, with 1” (25 mm) minimum diameter caps. Refer to the JM SBS Application Guide for additional information.

BUR Base Sheet Application
Using one of the base sheets listed, start with a 2½ width sheet. The remaining sheets are to be applied full width with 2½ (51 mm) side and 4” (102 mm) end laps over preceding sheets. Nail as described above.

Asphalt Application
JM BUR, SBS modified bitumen and thermoplastic fleece back products are designed to be installed with hot asphalt. Permanop® coal tar pitch and coal tar asphalt are not permitted.

Re-Roofing
A large percentage of all commercial and industrial roofing pertains to re-roofing of existing buildings. Refer to the JM Re-Roofing document for inspection, testing, components and other valuable information pertaining to re-roofing projects.

JM Guarantee Requirements
JM Peak Advantage Guarantees are available up to a 25 year term with approved components and assembly make-up. Refer to the JM Peak Advantage Charges and Requirements-Bituminous Systems document for additional guarantee information.

Refer to the JM Peak Advantage Guarantee Information document for additional guarantee information and guidelines.

Modified Bitumen Sheet Application - Hot Asphalt
On roof decks with slopes up to 1/2” per foot (41 mm/m), the roof felts may be installed either perpendicular or parallel to the roof incline. Install each felt so that it is firmly and uniformly set, without voids into the hot asphalt just before the felt at the proper nominal recommended rates. All sheet edges should be well sealed.

SBS Intermediate Sheet Application
Roll a half width piece of one of the intermediate sheets listed over the nailed base sheet into a full mopping of hot asphalt. The remaining sheets are to be applied full width, in the same manner, with 3” (76 mm) side and 4” (102 mm) end laps over the preceding sheets.

Thermoplastic Membrane with Redundant Bituminous Systems Over Nailable Decks.
These specifications are for use over any type of structural deck (with or without insulation) which can adequately retain nails or other approved mechanical fasteners. The thermoplastic fleece backed membrane must be firmly and uniformly placed into a full mopping of hot asphalt without voids. Asphalt must not be applied to the selvage edge of the thermoplastic fleece backed membrane to allow a minimum of 1.5” (38 mm) weld. Before installation, unroll the JM TPO Fleece Backed membrane and allow it to relax. The laps of JM TPO Fleece Backed membrane must be hot air welded. Clean all surfaces to be welded. All laps must be a minimum of ½” (13 mm) in width.

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Steep Slope Requirements
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