

Assembly Identification

Substrate
N = Nailable

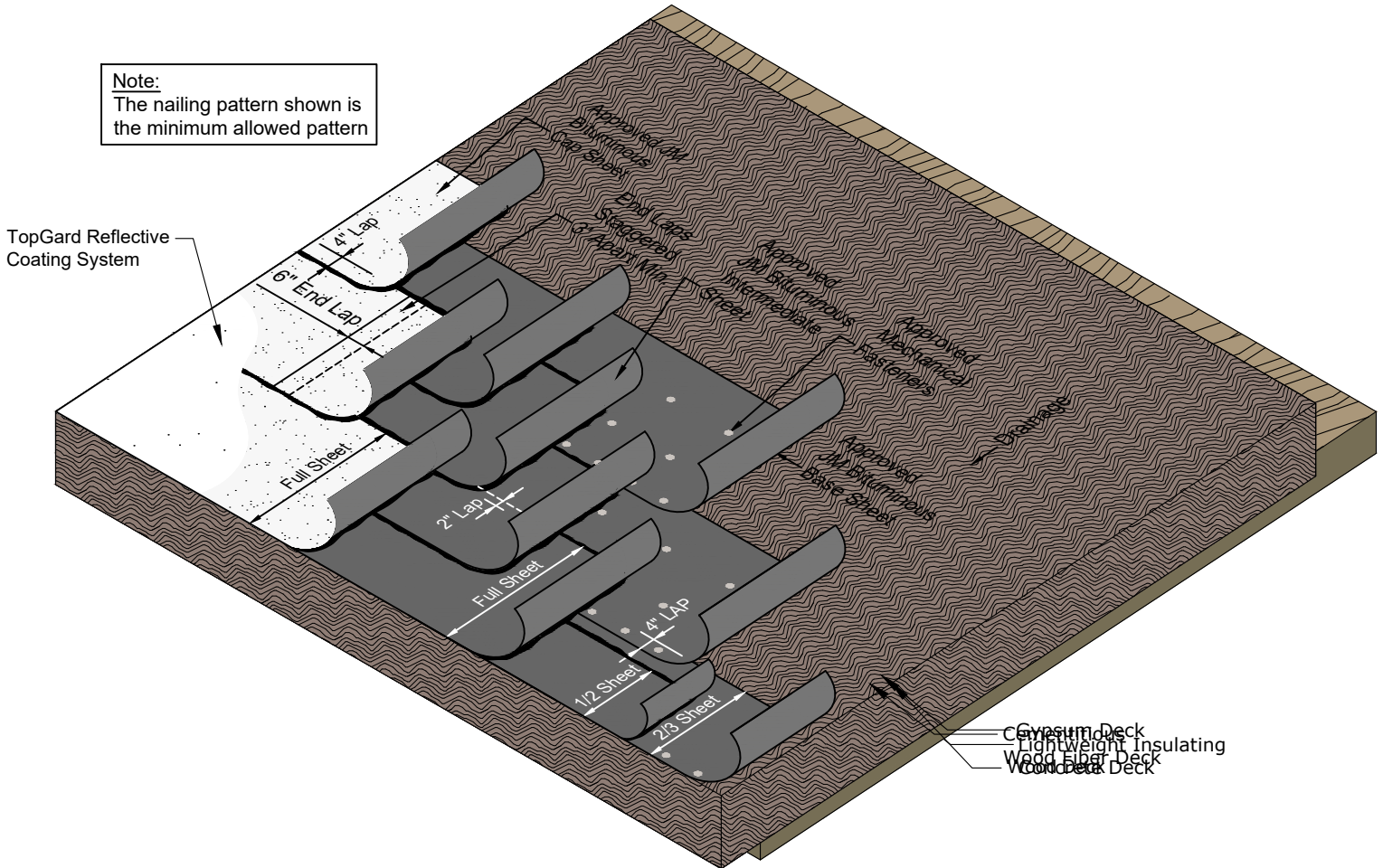
Number of Plies → **4 END-SW-CR**

Cap Sheet
C = Composite
F = Fiberglass
P = Polyester

Surfacing
D = SBS Cap Sheet (Granule Surface)
CR = Mineral Surfaced Cool Roof Sheet

Cap Sheet Application Method
CA = Cold Adhesive
HA = Hot Asphalt
HW = Heat Welded
SA = Self Adhered

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

- Cap Sheet - Bolted/Adhesive**
(Only for Bolted/Adhesive Cool Roof):
- DynaMax Smooth CR G
 - DynaMax Smooth CR G
 - DynaMax Smooth CR CR
 - DynaMax Smooth CR GR G
 - DynaMax Smooth CR RT
 - DynaMax Smooth CR G
 - DynaMax Smooth CR G
 - DynaMax Smooth

- Intermediate Sheet - Bolted/Adhesive**
(Only for Bolted/Adhesive):
- DynaMax Smooth
 - DynaMax Smooth
 - DynaMax Smooth
 - DynaMax Smooth
 - DynaMax Smooth
 - DynaMax Smooth
 - DynaMax Smooth

- Base Sheet: (Nailed)**
- DynaFast®180 S
 - DynaFast 180 HW
 - DynaLastic®180 S
 - GlasBase® Plus
 - PermaPly®28

- Deck Type:**
Nailable Decks include:
- Cementitious Wood Fiber
 - Gypsum
 - Lightweight Insulating Concrete
 - Wood (Plywood, Plank, OSB)



4 PLY SBS INCLUDING NAILED BASE SHEET

General

This specification is for use over any approved structural deck (without insulation) which can receive 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 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 SBS modified bitumen membrane is to be applied to should be an approved structural substrate. The surface must be clean, smooth, flat and dry. SBS modified bitumen should not be applied directly to foam plastic insulations.

Flashings and Components

Refer to the JM Bituminous Details in the SBS Systems Application Tools.

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. Refer to the JM Roof Decks document in System Considerations for further information.

Base Sheet Application

Using one of the base sheets listed, start with a piece $\frac{2}{3}$ sheet wide. The remaining sheets are to be applied full width with 4" (102 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.

Asphalt Application

Asphalt should meet the requirements of ASTM D 312. JM guarantees require the use of Trumbull[®] asphalt or another JM approved asphalt. The slope of the roof as well as the climate governs the grade of asphalt to be used.

JM endorses the guidelines established by the NRCA and ARMA for heating asphalt for proper applications. Asphalt should be applied at the Equiviscous Temperature (EVT) +/- 25°F (+/- 4°C).

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.

Roll a $\frac{1}{2}$ 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 4" (102 mm) side and 4" (102 mm) end laps over the preceding sheets.

Apply a full width sheet of one of the cap sheets listed into a full mopping of asphalt. The remaining sheets are to be applied in the same manner with 4" (102 mm) side and end laps over the preceding sheets (6" (152 mm) end laps for polyester reinforced products).

Note:

Sheets with polyester reinforcement must be allowed to relax in an unrolled position prior to installation. Allow the membrane to relax for at least 15 minutes when the temperature is above 60°F (16°C), or 30 minutes when the temperature is below 60°F (16°C) prior to installation.

Modified Bitumen Sheet Application - Cold Adhesive

Roll a $\frac{1}{2}$ width piece of one of the intermediate sheets listed over the nailed base sheet into a full coating of MBR Cold Application Adhesive, Premium Cold Application Adhesive, or MBR Bonding Adhesive. The remaining sheets are to be applied full width, in the same manner, with 4" (102 mm) side and 4" (102 mm) end laps over the preceding sheets.

Apply a full width piece of one of the cap sheets listed into a full coating of MBR Cold Application Adhesive, Premium Cold Application Adhesive, or MBR Bonding Adhesive. The remaining sheets are to be applied in the same manner with 4" (102 mm) side laps and 6" (152 mm) end laps over preceding sheets. Apply all sheets so that they are firmly and uniformly set, without voids. Refer to the JM SBS Application Guide for further information.

Modified Bitumen Sheet Application - Heat Welded

Heat Weld a $\frac{1}{2}$ width piece of one of the intermediate sheets listed over the nailed base sheet. The remaining sheets are to be applied full width, in the same manner, with 4" (102 mm) side and 4" (102 mm) end laps over the preceding sheets. Starting at the low point of the roof, heat weld a full width piece of one of the Cap Sheets listed over the installed intermediate ply. Remaining sheets are to be applied in the same manner, with 4" (102 mm) side laps and 6" (152 mm) end laps over the preceding sheets. Apply all sheets so that they are firmly and uniformly set, without voids. Maintain a $\frac{1}{8}$ " (3 mm) to $\frac{3}{8}$ " (10 mm) bleed out beyond all laps. Refer to the JM SBS Application Guide for further information.

Modified Bitumen Sheet Application - Self Adhered

Starting at the low point of the roof, install a half sheet width piece of one of the intermediate sheets listed over the installed base sheets. Remove the bottom release film and roll in the sheet with a 75 lb to 100 lb (34 kg to 45 kg) split wheel steel roller to ensure full adhesion. Position the next full width sheet with the bottom film in tact, so that the leading edge is lined up with the perforated side lap line of the previously installed half width sheet. Install per specifications.

Roll the cap sheet and allow it to relax. Position the full width cap sheet (with bottom release film in tact) over the release film of the already installed intermediate sheet and install per specifications. Refer to the JM SBS Application Guide for further information.

Roof Coatings

TopGard[®] 4000 and TopGard 5000 are one part acrylic elastomeric roof coatings. When used over a modified bitumen roof, TopGard Base Coat must be applied as a base coat prior to application of TopGard 4000 and TopGard 5000. It is recommended that TopGard Base Coat be used with all installations of TopCoat 4000 and TopCoat 5000. Drying time between coats is normally 4 to 12 hours depending on weather conditions. Apply when temperature is 50°F (10°C) and rising using a brush, roller or spray equipment. TopGard 5000 is ideal for cold weather climates. Refer to the TopGard 4000 and TopGard 5000 data sheets for further information.

Steep Slope Requirements

Special procedures are required on inclines over 1/2" per foot (41 mm/m). Refer to the JM SBS Application Guide for further information.

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.

Refer to the JM Peak Advantage Guarantee Specimen document to see a JM Peak Advantage Guarantee sample.

All guaranteed installations must follow the guidelines for the requested guarantee as outlined in the JM SBS Modified Bitumen Specifications document. Not all JM specifications are eligible for all JM Peak Advantage Guarantee terms or enhanced coverage. Please contact JM Guarantee Services at (800) 922-5922 Option 3 for specific requirements.

All projects requiring a guarantee from JM must be applied for a minimum 14 days in advance of job start.

Refer to the Preventative Maintenance Brochure for roof and building maintenance guidelines.