Assembly Identification

Substrate
I = Insulated

Number of Plies → 2B1 D-BW-CR

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

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

TopGard Reflective Coating System

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

Cover Board Membrane Compatibility and Application Key
(CA) Cold Applied
(HA) Hot Asphalt
(HW) Heat Welded
(SA) Self Adhered

Vapor Barrier Application Key
(CA) Cold Applied
(HA) Hot Asphalt
(HW) Heat Welded
(SA) Self Adhered

Cover Board
Base Sheet
Insulation
Drainage or Cover Board
(If Applicable)

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

Base Sheet:
- DynaFast™ 180 S
- DynaFast 250 S
- DynaFast 180 HW
- DynaLastic™ 180 S
- DynaLastic 250 S
- DynaWeld™ 180 S Base

Approved Cover Boards:
(If Applicable)
- 1/2" Retrofit™ Board (HA)
- DuraBoard™ (CA) (HW)
- DuraFoam™ (CA) (HW)
- Tesco® Board (HA)
- Tesco Board HD (HA)
- Tapered Tesco Board (HA)
- Tesco Foam (HA)
- Invinsa™ Roof Board (CA) (SA)
- Invinsa FR Roof Board (SA)
- Invinsa Foam (CA) (SA)
- JM SECUROCK®
- Gypsum-Fiber Roof Board (CA) (HW) (SA)

Approved Insulations:
- DuraFoam®
- ENRGY 3 (ENRGY 3 Options)
- AGF
- CGF
- FR
- 20 PSI
- 25 PSI
- Tapered
- Tesco Foam
- Tesco Board

Approved Thermal Barrier:
(If Applicable)
- JM SECUROCK®
- Gypsum-Fiber Roof Board
- Glass-Mat Roof Board
- JM DeniDeck®
- Duraboard
- Tesco Board HD

Approved Vapor Barrier:
(If Applicable)
- GlasPly™ IV (HA)
- GlasPly Premier (HA)
- JM BaseGrip™ SD/SA (SA)
- DynaGrip™ Base SD/SA (SA)
- JM Vapor Barrier SA (SA)
- DynaBase™ (CA) (HW)
- DynaBase PR (CA) (HA)
- DynaBase XT (CA) (HA)
- DynaWeld™ Base (HW)
- DynaWeld Base XT (HW)
- DynaLastic™ 180 S (CA) (HA)
- DynaLastic™ 250 S (CA) (HA)

6 or 10 mil poly with taped seams

Approved Base Sheets (Fastened):
(If Applicable)
- Over Nailable Deck
- PermaPly™ 28
- DynaBase
- DynaBase PR
- DynaBase XT
- Ventuslution® Felt
- GlasBase™ Plus
- GlasPly Premier
- DynaFast 180 HW
- DynaLastic 250 S
- GlasTite® Flexible
- DynaFast 180 S
- DynaLastic 180 S

Deck Type:
- Steel (22 Ga. Min.)
- Structural Concrete
- Nailable Decks include:
  Wood (Plywood, Plank, OSB)
This specification is for use over any approved structural deck that can receive and adequately retain nails or other mechanical fasteners that may be recommended by the deck manufacturer and that provides a suitable surface to receive the roof. This specification can also be used in certain re-roofing applications.

This specification is also for use over JM insulations or other rigid insulations which are not nailed and which offer a suitable surface to receive the roof. Specific written approval is required for any roof insulation manufactured or supplied by JM. This specification is not to be used over poured or precast gypsum or lightweight, insulating concrete fills.

Note: Consider all general instructions contained in the current JM SBS Application Guide as part of this specification.

Appropriate JM Insulation Adhesives Include:
- **JM One Step Foamable Adhesive**
- **JM Roofing System Urethane Adhesive (RSUA)**
- **JM Two-Part Urethane Insulation Adhesive (UIA)**
- **JM Green Two-Part Urethane Insulation Adhesive**
- **Hot Asphalt**

Refer to JM drawing UA-12 for Adhesive Bead Patterns.

When installing a low rise urethane adhesive product for insulation boards, all surfaces必须 be clean, dry, smooth, compatible and free of dirt, debris, oils, grease and gravel. Apply the urethane adhesive directly to the substrate and allow it to rise and build body before placing board stock into the adhesive. Board stock attachment requires the board stock to be walked in to ensure positive contact between the board stock, adhesive and substrate. When installing JM One-Step Foamable Adhesive, insulation boards must be set into the adhesive immediately and walked in due to the rapid curing time of the adhesive. Refer to the specific JM product data sheets of JM insulation adhesives listed above for coverage rates and specific application information.

When adhering insulation boards using hot asphalt, firmly set the insulation boards long joints continuous and short joints staggered, into a full width mopping of hot asphalt. Porous substrates may require greater amounts of asphalt. Concrete decks must be primed with Asphalt Primer™ prior to application of hot asphalt. Refer to the Insulation Installation Instructions document for further information.

Appropriate JM Insulation Fasteners Include:
- **All Purpose Fasteners**
- **Butyl Fastened Fasteners & Plates**
- **Structural Concrete Deck Fasteners and Plates**
- **Polymer Auger Fasteners**

Install JM insulation Fasteners and Plates at an appropriate rate determined by building code, specification, and/or JM Guarantee requirements. Refer to the JM Minimum Insulation Fastening Requirements-Adhered Membrane Bulletin for further information.

Cover Board Application
Cover boards may be installed using asphalt, mechanical fasteners, or adhesives. A minimum offset of 6" (152 mm) is recommended from previous layers of insulation. No board widths less than 6" (152 mm) are allowed. Refer to the Insinva Roof Board Codes and Application Brochure for further information. Refer to the JM Cover Boards Selector Guide for JM Cover Boards product information. Refer to section Insulation Application below for Cover Board Securment Information including Adhered and Fastened methods of attachment.

Base Sheet Application
Using one of the base sheets listed, start with a full sheet. The remaining sheets are to be applied full width with 4" (102 mm) side and 4" (102 mm) end laps over preceding sheets. Polyester reinforced sheets require a 6" (152 mm) end lap. Center the fasteners and plates within the seam. Heat weld the side and end laps while maintaining a J6 (3.18 mm) and 3/8" (9.5 mm) bleed out beyond all laps. Refer to the SBS Modified Bitumen document in the SBS Systems Considerations section for additional information.

Asphalt Application
JM 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). Refer to the modified Bitumen Systems document in the SBS Systems Considerations section for additional information.

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.

Apply a half width sheet of one of the cap sheets listed into a full mopping of asphalt. The remaining full width sheets are to be applied in the same manner with 4" (102 mm) side and end laps over the preceding sheets 8" (152 mm) end laps for polyester reinforced products.

Modified Bitumen Sheet Application - Cold Adhesive
Apply a half 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 full width sheets are to be applied in the same manner with 4" (102 mm) side laps and 6" (152 mm) end laps for polyester reinforced products. 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
Starting at the low point of the roof, heat weld a half width piece of one of the Cap Sheets listed over the installed intermediate ply. Remaining full width sheets are to be applied in the same manner, with 4" (102 mm) side laps and 6" (152 mm) end laps for polyester reinforced products. Apply all sheets so that they are firmly and uniformly set without voids. 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 TopGard 4000 and TopGard 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.

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.

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 SBS Modified Bitumen Specification document. Not all 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.