

Assembly Identification

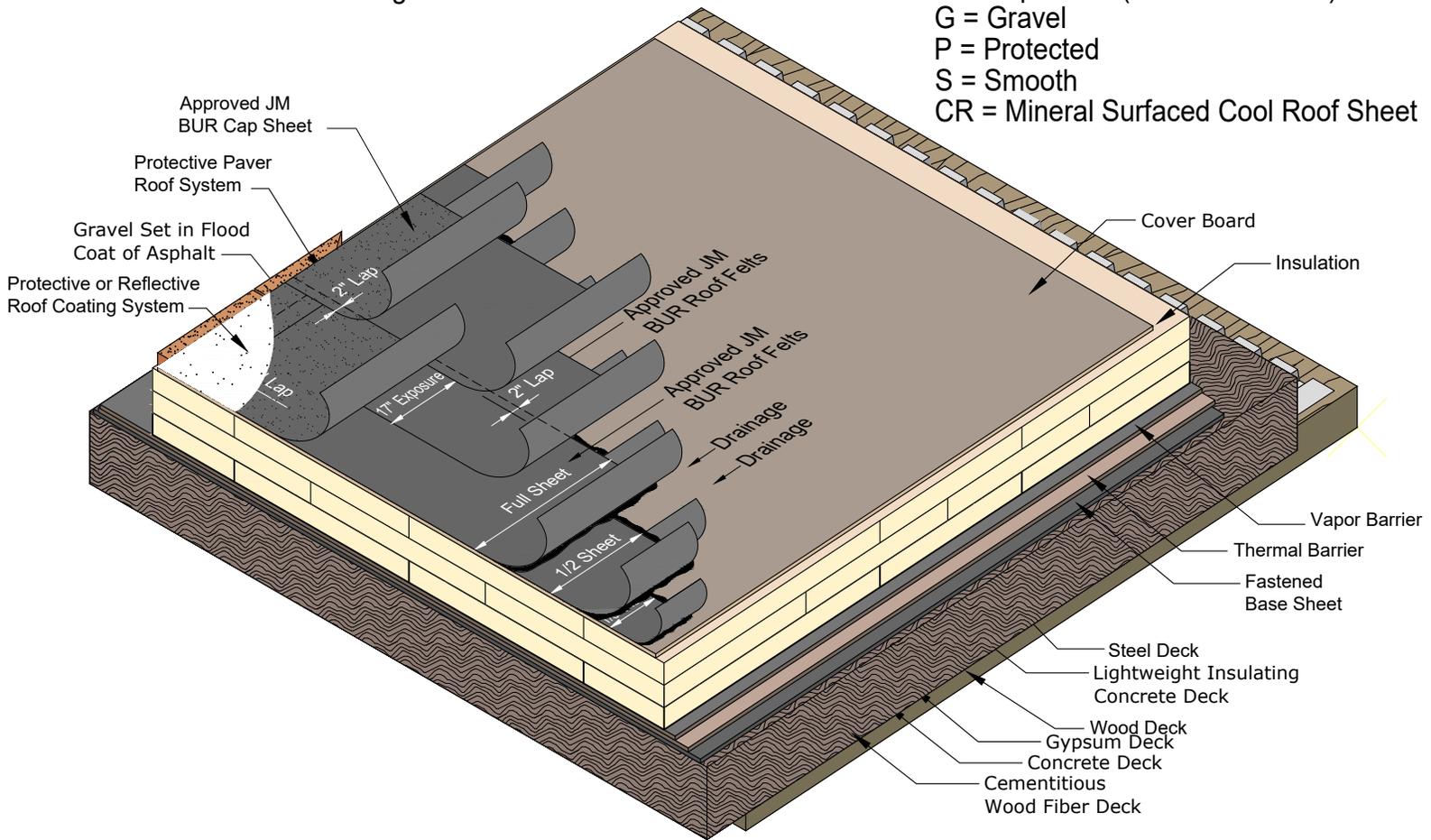
Substrate
I = Insulated

Number of Plies → **3 G I B - B A - C R**

Type of Ply
G = Fiber glass

Application Method
CA = Cold Adhesive
HA = Hot Asphalt

Surfacing
C = Cap Sheet (Granule Surface)
G = Gravel
P = Protected
S = Smooth
CR = Mineral Surfaced Cool Roof Sheet



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

<u>Cap Sheet - Cold Adhesive</u> <u>(Fiber Glass Reinforced):</u> <u>Cold Asphalt</u> GlasKap®	<u>Approved Cover Boards:</u> (If Applicable) 1/2" RetroFit™ Board (HA) DuraBoard® (CA)(HW) Fesco® Board (HA) Fesco® Board HD (HA) Fesco® Foam (HA) JM DEXCELL® FA Glass-Mat Roof Board (HA) JM SECUROCK® Gypsum-Fiber Roof Board (CA)(HA) JM DensDeck® Prime (CA)(HA) RetroPlus™ Roof Board (CA) (HA) Protector™ HD Cover Board (CA) Separator® CGF Recover Board (CA) Cover Board Thickness _____	<u>Approved JM Insulations:</u> DuraFoam® ENRGY 3® (ENRGY 3 Options) CGF 20 PSI 25 PSI Tapered Tapered Fesco Board Layer 1 Thickness _____ Layer 2 Thickness _____ Layer 3 Thickness _____	<u>Approved Base Sheets:</u> (Fastened): (If Applicable) Over Nailable Deck PermaPly®28 DynaBase® DynaBase PR Ventsulation®Felt GlasBase™ Plus GlasTite®Flexible DynaFast®180 S DynaLastic®180 S GlasPly®Premier	<u>Approved Thermal Barrier:</u> (If Applicable) JM SECUROCK® Gypsum-Fiber Roof Board Glass-Mat Roof Board DensDeck Prime® Duraboard® Fesco® Board HD Thermal Barrier Thickness _____
<u>Roofing Felts (Ply)</u> <u>Cold Adhesive</u> <u>(Fiber Glass Reinforced):</u> GlasPly®Premier GlasPly IV				
<u>Roofing Felts (Base or Ply)</u> <u>Cold Adhesive</u> <u>(Fiber Glass Reinforced):</u> GlasPly®Premier GlasPly IV				
<u>Roofing Felts (Base Ply)</u> <u>Cold Adhesive</u> <u>(Fiber Glass Reinforced):</u> PermaPly®28		<u>Approved Vapor Barrier:</u> (If Applicable) GlasPly®IV (HA) GlasPly Premier (HA) DynaBase®(CA)(HA) DynaBase PR (CA)(HA) 6 or 10 mil poly with taped seams		<u>Deck Type:</u> Steel (22 Ga. Min.) Structural Concrete Nailable Decks include: Cementitious Wood Fiber Gypsum Lightweight Insulating Concrete Wood (Plywood, Plank, OSB)

General

This specification is for use over any approved structural deck which is not nailable and which provides a suitable surface to receive the roof. This specification can also be used over certain JM insulations or other approved insulations that are not nailable and provide a suitable surface to receive the roof. Specific written approval is required for any roof insulation that is not provided by JM. This specification can also be used in certain re-roofing applications.

Note:

Consider all general instructions contained in the current JM BUR 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), 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 Roof membrane is to be applied to should be an approved structural substrate. The surface must be clean, smooth, flat and dry. Built Up Roofing should not be applied directly to foam plastic insulations.

Flashings and Components

Refer to the JM Bituminous Details in the Built Up Roofing 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.

Insulation Application

A minimum offset of 6" (152 mm) is recommended from the previous layer of insulation. Loose laid insulations should be positioned with the long side of the boards running perpendicular to the membrane orientation and continuous. End joints should be staggered at least 12" (305 mm) from the end joint in adjacent rows. A minimum offset of 6" (152 mm) is recommended from plywood joints. Refer to the Insulation Installation Instructions document for further information.

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 INS within the Roof Insulation document for Adhesive Bead Patterns.

When adhering insulation boards using hot asphalt, board size must be no greater than 4' x 4' (1.22 m x 1.22 m). If insulation is being installed over existing insulation or in multiple layers, all joints must be offset a minimum of 6" (152 mm) between layers. 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
- UltraFast Fasteners and Plates
- Structural Concrete Deck Fasteners and Plates
- Polymer Auger Fasteners

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 JM Cover Boards Selector Guide for JM Cover Boards product information. Refer to section [Insulation Application](#) below for Cover Board Securement Information including Adhered and Fastened methods of attachment.

Ply Sheet Application

When installing a roof system with applied surfacing start by using one of the ply sheets listed $\frac{1}{2}$ sheet wide, then a piece $\frac{3}{8}$ sheet wide. The remaining sheets are to be applied full width with 11 $\frac{1}{8}$ " exposure and 4" (102 mm) end laps over preceding sheets.

When installing a system with a granulated cap sheet start by using one of the sheets listed $\frac{1}{2}$ sheet wide, then full width sheets with 17" exposure and 4" (102 mm) end laps over preceding sheets.

Refer to the Built Up Roofing Specifications-General Information document 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. JM recommends the use of only Type III and Type IV asphalt in BUR and SBS modified bitumen with thermoplastic fleece backed specifications. 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).

BUR 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 piece of one of the ply sheets listed into a full mopping of hot asphalt. Followed by the next sheet of one of the ply sheets listed into a full mopping of asphalt. The remaining sheets are to be applied in the same manner with laps and exposure as mentioned above.

Apply a full width piece of one of the cap sheets listed into a full mopping of hot asphalt. The remaining sheets are to be applied in the same manner with 2" (51 mm) side laps and 4" (102 mm) end laps over preceding sheets. Apply all sheets so that they are firmly and uniformly set, without voids. Refer to the Built Up Roofing- Specifications document for further information.

BUR Sheet Application - Cold Adhesive

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. Apply all sheets so that they are firmly and uniformly set, without voids into a full coating of MBR Cold Application Adhesive or MBR Bonding Adhesive.

Roll a piece of one of the ply sheets listed into a full coating of MBR Cold Application Adhesive or MBR Bonding Adhesive. The remaining sheets are to be applied in the same manner, with laps and exposure as mentioned above.

Apply a full width piece of one of the cap sheets listed into a full coating of MBR Cold Application Adhesive or MBR Bonding Adhesive. The remaining sheets are to be applied in the same manner with 2" (51 mm) side laps and 4" (102 mm) end laps over preceding sheets. Apply all sheets so that they are firmly and uniformly set, without voids. Refer to the Built Up Roofing-Specifications document 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.

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. TopGard Type A is a one part coating that is a combination of aluminum flakes and non-asbestos reinforcing fibers suspended in an emulsified asphalt. Apply when temperature is 40°F (4°C) and rising using a brush, roller or spray equipment. Refer to the TopGard Type A data sheet for further information.

Note:

Sheets with polyester reinforcement must be allowed to relax in an unrolled position prior to installation.

Steep Slope Requirements

Special procedures are required on inclines over 1/2" per foot (41 mm/m). Refer to Section Two, paragraph 21 of the JM Hot Asphalt and Cold Adhesive Applied Roofing Systems 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 30 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 Built Up Roofing Specification General Information 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.