

## APP Modified Bitumen Specifications Specification 3CBS-W/3PBS-W

**Three Ply Heat Welded, Base Sheet Fastened Modified Bitumen Smooth Surfaced Roofing System. For use over Johns Manville (JM) insulation, approved substrate or other approved insulations on inclines up to 6" per foot (500 mm/m).**

**Materials per 100 sq. ft. (9.3 m<sup>2</sup>) of Roof Area**

<b>Base Ply:</b>	
TRICOR S*, BICOR S*, APPeX 4S, JM APP Base, Ventsulation or PermaPly 28	1 layer
<b>Intermediate Plies:</b>	
TRICOR S*, BICOR S*, APPeX 4S, or JM APP Base	1 layer
<b>Cap: ♦</b>	
3CBS-W—TRICOR S* or BICOR S*	1 layer
3PBS-W—APPeX 4S	

<b>Surfacing:</b>	
TopGard Type A	1¾ - 2 gallons (0.7 - 0.8 l/m <sup>2</sup> )
TopGard Type B	2 - 3 gallons (0.8 - 1.2 l/m <sup>2</sup> )
TopGard 4000	1 - 1½ gal (0.4 - 0.6 l/m <sup>2</sup> ) (over smooth sheets)
TopGard 4000	1½ - 2 gal (0.6 - 0.8 l/m <sup>2</sup> ) (over mineral sheets)
TopGard 5000	1 - 1½ gal (0.4 - 0.6 l/m <sup>2</sup> ) (over smooth sheets)
TopGard 5000	1½ - 2 gal (0.6 - 0.8 l/m <sup>2</sup> ) (over mineral sheets)
TopGard Base Coat	1 - 1½ gal (0.4 - 0.6 l/m <sup>2</sup> ) (over smooth sheets)
TopGard Base Coat	1½ - 2 gal (0.6-0.8l/m <sup>2</sup> ) (over mineral sheets)
Fibrated Aluminum Roof Coating	2 gallons (0.8 l/m <sup>2</sup> )

Approximate installed weight: 185 - 270 lbs. (84 - 122 kgs.)

### General

This specification is for use over any type of approved structural deck with insulation or approved substrate which is suitable to receive a mechanical fastener and which provides an acceptable surface to receive the roof.

Specific written approval is required for any roof insulation that is not supplied by JM. Insulation shall be installed in accordance with the appropriate JM Insulation Specification detailed in the JM Commercial/ Industrial Roofing Systems Manual. This specification can also be used in certain reroofing situations. Refer to the "Reroofing" section of the JM Commercial/Industrial Roofing Systems Manual. This specification is not to be used over gypsum, either poured or pre-cast, or lightweight insulating concrete decks or fills.

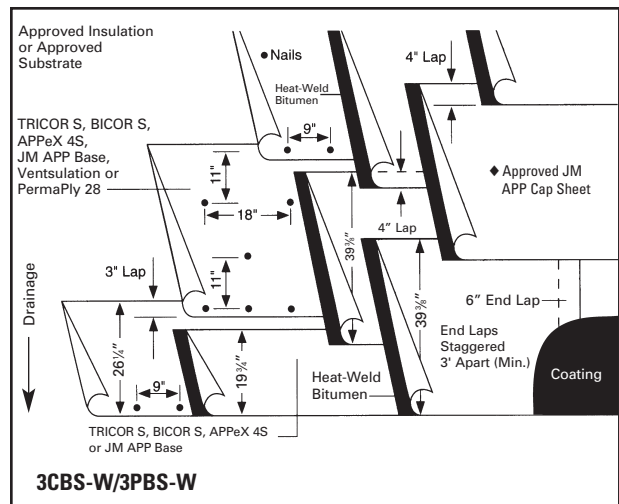
**Design and installation of the deck and/or roof substrate must result in the roof draining freely, to outlets numerous enough and so located as to remove water promptly and completely. Areas where water ponds for more than 24 hours are unacceptable and will not be eligible for a JM Roofing System Guarantee.**

### 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, mechanically fasten with an approved JM insulation fastener and plate a 26¼" (667 mm) wide piece of base ply through the insulation. The remaining base plies are to be applied full width with 3" (76 mm) side and 4" (102 mm) end laps over the preceding sheets. Fasten the laps at 9" (229 mm) centers, and down the longitudinal center of each felt ply, place two rows of fasteners, with the rows spaced approximately 11" (279 mm) apart, and fasteners staggered on approximately 18" (457 mm) centers. Use fasteners



appropriate to the insulation and deck. 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 19¾" (502 mm) piece of one of the intermediate plies listed with 4" (102 mm) side and 6" (152 mm) end laps. The remaining plies are to be applied full width, in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheet.

Heat weld a full width piece of one of the cap sheets listed so that it is firmly and uniformly set. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side and 6" (152 mm) end laps over the preceding sheets. All laps must be rolled with a 3" (76 mm) rounded edge roller. A ⅛" to ⅜" (3 mm to 10 mm) bleedout of APP compound shall be visible at the edge of all seams. All laps must be checked for good adhesion.

**Application of JM APP Modified Bitumen Products may require the use of an open flame propane torch. Improper use of these materials and application equipment can result in severe burns, and/or other physical injury, as well as damage to property. In order to prevent these situations the mechanic must install the materials using the techniques recommended by JM and those found in "A Guide to Safety: Torch-On Modified Bitumens" available from the Asphalt Roofing Manufacturers Association. These techniques have been endorsed by the National Roofing Contractors Association and the United Union of Roofers, Waterproofers and Allied Workers.**

For cold weather application techniques, refer to Paragraph 8A.14.

### Steep Slope Requirements

Special procedures are required on inclines over 2½" per foot (208 mm/m). Refer to Paragraph 8A.12.

### Surfacing

Smooth surfaced membranes must be coated with a JM approved coating. The coating chosen will depend on aesthetics and any fire rating or code approval required.

**Note:** When using metric and English sized sheets in the same system, care must be taken to avoid lap over lap configurations.

\*This is a special order product. Contact your JM Sales Representative about availability and lead time.

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