

Built-Up Roofing Specifications

Specification 5GIC CR


Five Ply White-Coated Mineral Surfaced Fiber Glass Built-Up Roof. For use over JM insulation, approved decks or other approved insulations, on inclines of up to 6" per foot (500 mm/m).

Materials per 100 sq. ft. (9.3 m²) of Roof Area

Concrete Primer: If required	1 gallon (3.8 liters)	
Felts: GlasPly Premier or GlasPly IV GlasKap CR	4 plies 1 ply	
Asphalt (Interply): Trumbull®* or other JM Approved Asphalt		
Incline per foot	Asphalt	Total Weight
Up to 1" (83 mm/m)	170°F (77°C), Type II, Flat	115 lbs. (52 kgs.)
1" to 3" (83 to 250 mm/m)	190°F (88°C), Type III, Steep	115 lbs. (52 kgs.)
3" to 6" (250 to 500 mm/m)	220°F (104°C), Type IV, Special Steep	115 lbs. (52 kgs.)
Up to 6" (500 mm/m)	PermaMop	115 lbs. (52 kgs.)

Approximate installed weight: 200 - 254 lbs. (91 - 115 kgs.).

Energy and the Environment

 <p>CRRC COOL ROOF RATING COUNCIL</p>	Solar Reflectance	Initial 0.76	Weathered Pending
	Thermal Emittance	0.85	Pending
	Rated Product ID	0662-0007	
	Licensed Manufacturer ID	0662	
	Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary.</small>			
<small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.</small>			

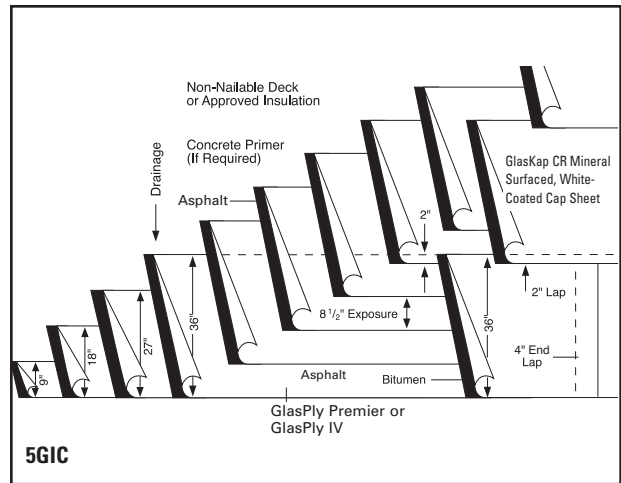
General

This specification is for use over any type of approved structural deck which is not nailable and which offers a suitable surface to receive the roof. Poured and pre-cast concrete decks require priming with JM Concrete Primer prior to application of hot asphalt.

This specification is also for use over JM roof insulations or other approved rigid roof insulations, which are not nailable and which offer a suitable surface to install the roof. Specific written approval is required for any roof insulation not manufactured or supplied by JM. Insulation should be installed in accordance with the appropriate JM Insulation Specification detailed in the current 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 directly over poured or pre-cast gypsum or lightweight, insulating concrete fills.

Design and installation of the deck and/or substrate must result in the roof draining freely and 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 are not eligible to receive a JM Roofing Systems Guarantee.

Note: All general instructions contained in the current JM Commercial/Industrial Roofing Systems Manual should be considered part of this specification.



Flashings

Flashing details can be found in the "Bituminous Flashings" section of the JM Commercial/Industrial Roofing Systems Manual.

Application

Note: On roof decks with slopes up to 1" per foot (83.3 mm/m), the roofing felts may be installed either perpendicular or parallel to the roof incline. On slopes over 1" per foot (83.3 mm/m), refer to **Paragraph 6.11** of this section for special requirements.

Using GlasPly Premier or GlasPly IV, apply a piece 9" (229 mm) wide, then over that, one 18" (457 mm) wide, then over that, one 27" (686 mm) wide. Over these 3 partial sheets install a full width 36" (914 mm) piece. The following felts are to be applied full width, overlapping the preceding felts by 27½" (699 mm) so that at least 4 plies of felt cover the substrate at all locations. Install each felt so that it is firmly and uniformly set, without voids, into the hot asphalt (within ±25°F [±14°C] of the EVT) applied just before the felt at a nominal rate of 23 lbs. per square (1.1 kg/m²), over the entire surface. Installation over porous substrates such as roof insulation may require up to 33 lbs. of hot asphalt per square (1.6 kg/m²).

Surfacing

Prior to application of GlasKap CR, cut the cap sheet into handleable lengths (12' - 18' [3.66 m - 5.50 m]). Lay the material out on the roof and allow it to relax and flatten. To accommodate a full width sheet, apply a mopping of hot asphalt, approximately 20°F (11°C) above the EVT, at a nominal rate of 23 lbs. per square (1.1 kg/m²). (The higher temperature of asphalt maximizes the bonding of the cap sheet to the ply felts.) Then flop the cap sheet into the hot asphalt. On subsequent courses, a slop sheet can be positioned upside down, directly over the sheet in the preceding course such that only the side lap area of the preceding sheet is exposed. Care should be taken to maintain 2" (51 mm) side laps and 4" (102 mm) end laps. Asphalt is applied in the same manner as before, making sure to also cover the 2" (51 mm) exposed side lap. Asphalt may also be applied to the exposed "upside down" cap sheet, prior to "flopping" it into the hot asphalt. The cap sheet must be firmly and uniformly set, without voids, into the hot asphalt with all edges and laps well sealed.

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



Johns Manville

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Finishing

It is important to be careful with asphalt when applying the GlasKap CR sheets on the roof. However, if a small amount of asphalt bleeds out at the side or end laps, the roof will still meet Title 24 requirements. Bleed out of less than 1" (25 mm) is acceptable, but $\frac{3}{8}$ " (10 mm) is recommended.

Some applicators or building owners may want to dress up the roof by coating the asphalt to give the roof surface a uniform white appearance. This is an optional step. JM recommends using a heavy knap roller, in a 4" (102 mm) width, to coat the exposed asphalt with a JM recommended white acrylic coating.

Asphalt

Asphalt should meet the requirements of ASTM D 312.

JM Guarantees require the use of Trumbull®* asphalt or another JM Approved Asphalt.

Check with a JM Technical Service Specialist for special asphalt requirements in hot climates.

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

* Trumbull is a registered trademark of Owens Corning.