

## Built-Up Roofing Specifications Specification 4GIS

**Four Ply Smooth 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 m<sup>2</sup>) of Roof Area**

<b>Concrete Primer</b> (If required):	1 gallon (3.8 liters)	
<b>Felts:</b> GlasPly Premier or GlasPly IV	4 plies	
<b>Asphalt</b> (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	92 lbs. (42 kgs.)
1" to 3" (83 to 250 mm/m)	190°F (88°C), Type III, Steep	92 lbs. (42 kgs.)
3" to 6" (250 to 500 mm/m)	220°F (104°C), Type IV, Special Steep	92 lbs. (42 kgs.)
Up to 6" (500 mm/m)	PermaMop	92 lbs. (42 kgs.)
<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 - 0.8 l/m <sup>2</sup> ) (over mineral sheets)	
Asphalt (Type consistent with slope)	15 lbs. max. (0.7 kgs./m <sup>2</sup> )	
Fibrated Aluminum Roof Coating*	2 gallons (0.8 l/m <sup>2</sup> )	

Approximate installed weight: 112 - 160 lbs. (51 - 73 kgs.)

\* For immediate application of Fibrated Aluminum Roof Coating, apply over TopGard Type B which has been allowed to dry. Otherwise, apply over asphalt surfacing which has been weathered over one season.

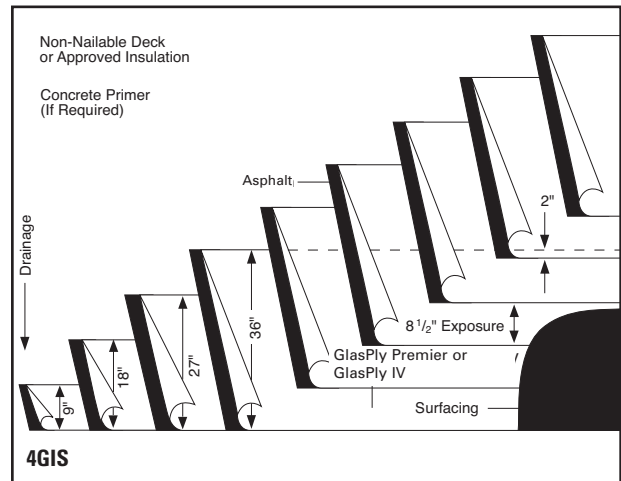
**General**

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 2" per foot (166.6 mm/m), the roofing felts may be installed either perpendicular or parallel to the roof incline. On slopes over 2" per foot (166.6 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/m<sup>2</sup>), 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/m<sup>2</sup>).

**Surfacing**

Finish the entire membrane surface with a uniform application of the selected coating. Refer to **Paragraph 6.9.3** of this section for more specific information regarding the particular coating. Pay particular attention to the installation directions printed on the label of the container for the chosen 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.