

## Built-Up Roofing Specifications Specification 4GIG-Alt

**Four Ply Gravel Surfaced Fiber Glass Built-Up Roof. For use over JM insulation, approved decks or other approved insulations, on inclines of up to 3" per foot (250 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>		
GlasBase Plus, PermaPly 28 or Ventsulation Felt	1 ply	
GlasPly Premier or GlasPly IV	3 plies	
<b>Asphalt</b> (Interply): Trumbull®* or other JM Approved Asphalt		
Incline per foot	Asphalt	Total Weight
Up to ½" (41.6 mm/m)	170°F (77°C), Type II, Flat	92 lbs. (42 kgs.)
½" to 3" (41.6 to 250 mm/m)	190°F (88°C), Type III, Steep 220°F (104°C), Type IV, Special Steep	92 lbs. (42 kgs.)
Up to 3" (250 mm/m)	PermaMop	92 lbs. (42 kgs.)

<b>Surfacing:</b>		
Flood coat of asphalt	60 lbs. (2.9 kgs./m <sup>2</sup> )	
Gravel or Slag	400 lbs. (19.5 kgs./m <sup>2</sup> ) 300 lbs. (14.6 kgs./m <sup>2</sup> )	

Aggregate density, size and coverage will determine actual weight. Approximate installed weight: 452 - 615 lbs. (205 - 279 kgs.).

**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.

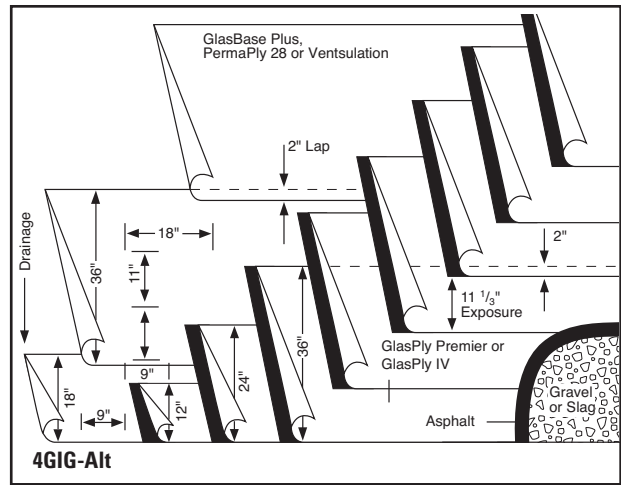
This specification is also for use over JM roof insulations or other approved rigid roof insulations, which are not nailable and which offer a suitable surface to install the roof. Specific written approval is required for any roof insulation not manufactured or supplied by JM. Insulation should be installed 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 GlasBase Plus, PermaPly 28 or Ventsulation, start with an 18" (457 mm) width (the use of a specific base sheet may be a condition of Guarantee). The following base sheet courses are to be applied full width, lapping the preceding felt 2" (51 mm) on the side laps and 4" (102 mm) on the end laps. Install each base sheet 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 kgs./m<sup>2</sup>) over the entire surface.

Using GlasPly Premier or GlasPly IV, apply a piece 12" (305 mm) wide, then over that, one 24" (610 mm) wide, then over both, a full width piece. The following felts are to be applied full width, overlapping the preceding felts by 2 ½" (627 mm) so that at least 3 plies of felt cover the base felt/ 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 kgs./m<sup>2</sup>) over the entire surface.

**Surfacing**

Flood the surface with the appropriate asphalt at an approximate rate of 60 lbs. per square (2.9 kgs./m<sup>2</sup>). Into the hot asphalt, embed an acceptable gravel at a rate of 400 lbs. per square (19.5 kgs./m<sup>2</sup>) or an acceptable slag at a rate of 300 lbs. per square (14.6 kgs./m<sup>2</sup>).

Aggregate must be installed so that there is complete coverage across the entire surface and at least 50% of the aggregate is solidly adhered in the hot asphalt. Aggregate should meet the requirements of ASTM D 1863.

**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.