

Built-Up Roofing Specifications

Specification 5GNG

Five Ply Gravel Surfaced Fiber Glass Built-Up Roof. For use over wood or other nailable decks on inclines of up to 3" per foot (250 mm/m).

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

Sheathing Paper (Wood board decks only) 1 layer

Felts:

GlasBase Plus, PermaPly 28 or Ventsulation Felt 1 ply
 GlasPly Premier or GlasPly IV 4 plies

Asphalt (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	92 lbs. (42 kgs.)
Up to 3" (250 mm/m)	PermaMop	92 lbs. (42 kgs.)

Surfacing:

Flood coat of asphalt	60 lbs. (2.9 kgs./m ²)
Gravel or Slag	400 lbs. (19.5 kgs./m ²) 300 lbs. (14.6 kgs./m ²)

Aggregate density, size and coverage will determine actual weight.
 Approximate installed weight: 478 - 695 lbs. (217 - 315 kgs).

General

This specification is for use over any type of approved structural deck (without insulation) which can receive and adequately retain nails or other types of mechanical fasteners that may be recommended by the deck manufacturer. Examples of such decks are wood and plywood. This specification is not for use directly over lightweight, insulating concrete decks.

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

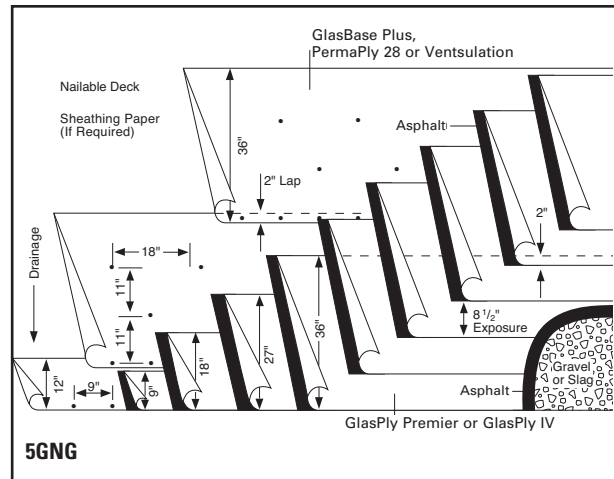
Flashing details can be found in the "Bituminous Flashings" section of the JM Commercial/Industrial Roofing Systems Manual.

Application

Over wood board decks, one ply of sheathing paper must be used under the base felt and on top of the wood board deck.

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 a 12" (305 mm) width (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. Nail the side laps 9" (229 mm) o.c.



Down the longitudinal center of each felt, place two rows of nails spaced approximately 11" (279 mm) apart, with the nails staggered on approximately 18" (457 mm) centers. Use nails or fasteners appropriate to the type of deck with 1" (25 mm) minimum diameter caps. For additional fastener information, refer to the Fastener Data in the "Roof Deck" section of the current JM Commercial/Industrial Roofing Systems Manual.

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.

Surfacing

Flood the surface with the appropriate asphalt at an approximate rate of 60 lbs. per square (2.9 kg/m²). Into the hot asphalt, embed an acceptable gravel at a rate of 400 lbs. per square (19.5 kg/m²) or an acceptable slag at a rate of 300 lbs. per square (14.6 kg/m²). 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.