Built-Up Roofing Specifications
Specification 5GNS

Five Ply Smooth Surfaced Fiber Glass Built-Up Roof. For use over wood or other nailable decks on inclines of up to 6" per foot (500 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 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.)
Surfacing:		
TopGard Type A		1¾ - 2 gallons (0.7 - 0.8 l/m²)
TopGard Type B		2 - 3 gallons (0.8 - 1.2 l/m²)
TopGard 4000		1 - 1½ gal (0.4 - 0.6 l/m²) (over smooth sheets)
TopGard 4000		1½ - 2 gal (0.6 - 0.8 l/m²) (over mineral sheets)
TopGard 5000		1 - 1½ gal (0.4 - 0.6 l/m²) (over smooth sheets)
TopGard 5000		1½ - 2 gal (0.6 - 0.8 l/m²) (over mineral sheets)
TopGard Base Coat		1 - 1½ gal (0.4 - 0.6 l/m²) (over smooth sheets)
TopGard Base Coat		1½ - 2 gal (0.6 - 0.8 l/m²) (over mineral sheets)
Asphalt (Type consistent with slope)		15 lbs. max. (0.7 kgs./m²)
Fibrated Aluminum Roof Coating*		2 gallons (0.8 l/m²)

Approximate installed weight: 138 - 240 lbs. (63 - 109 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 (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.

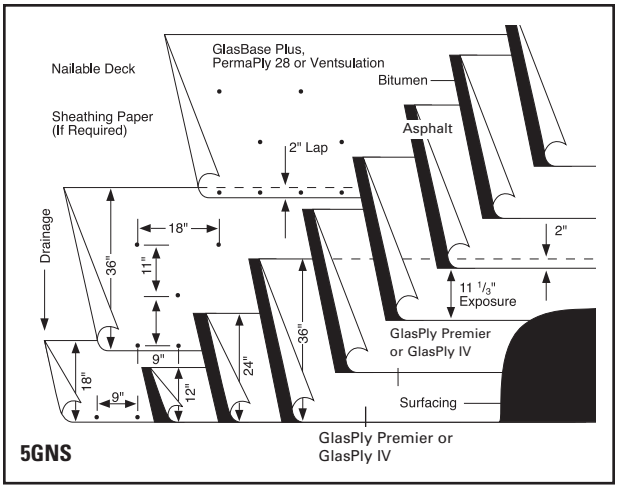
Flashings

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 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 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

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.