

## Built-Up Roofing Specifications Specification 4GNC

### Four Ply Mineral 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 m<sup>2</sup>) 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 2 plies  
GlasKap 1 ply

**Asphalt** (Interply): Trumbull\*\* or other JM Approved Asphalt

Incline per foot	Asphalt	Nominal Weight
Up to 1" (83 mm/m)	170°F (77°C), Type II, Flat	69 lbs. (31 kgs.)
1" to 3" (83 to 250 mm/m)	190°F (88°C), Type III, Steep	69 lbs. (31 kgs.)
3" to 6" (250 to 500 mm/m)	220°F (104°C), Type IV, Special Steep	69 lbs. (31 kgs.)
Up to 6" (500 mm/m)	PermaMop	69 lbs. (31 kgs.)

Approximate installed weight: 175 - 260 lbs. (79 - 118 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

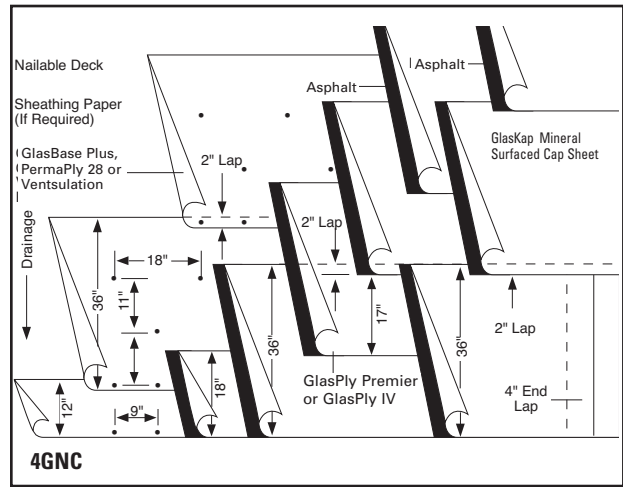
Flashing details can be found in the "Bituminous Flashings" section of the JM Commercial/Industrial Roofing Systems Manual.

#### 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 18" (457 mm) wide, then over that, a full width piece. The following felts are to be applied full width overlapping the preceding felts by 19" (483 mm) so that at least 2 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  $\pm 25^\circ\text{F}$  [ $\pm 14^\circ\text{C}$ ] 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.

#### Surfacing

Prior to application of GlasKap, 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/m<sup>2</sup>). (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, the cap sheet is positioned upside down, directly over the sheet in the preceding course such that 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.

#### 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.