

CITY OF ALBANY

Standard Specifications Technical Provisions

Section 14

Pavement Reinforcing Fabric

14-1 General — Pavement reinforcing fabric shall be placed on existing pavement to be surfaced or between layers of asphalt concrete when such work is shown on the plans, or specified in the special provisions, or ordered by the Engineer.

14-2 Materials — Pavement reinforcing fabric shall be manufactured from polyester, polypropylene, or polypropylenenylon material. The fabric shall be nonwoven, and shall conform to the following:

Weight, ounces per square yard	
ASTM Designation: D 1910	3.0 to 8.0
Grab tensile strength (1-inch grip), pounds min.	
ASTM Designation: D 1117	90
Elongation at break, percent min.	
ASTM Designation: D 1117	40
Fabric thickness, mils.	
ASTM Designation: D 461	12 to 100

The following fabrics have been found to meet the requirements of these specifications: Amoco, Amopave, Petromat, Fibretex AO, or approved equal designed specifically for asphalt overlays. When these materials are used, a mill certificate or affidavit indicating that the material to be installed is the same material as one of those named above, and that the fabric does meet the specifications, shall be submitted to the Engineer.

14-3 Surface Preparation — Before placing the pavement reinforcing fabric, a binder of paving asphalt shall be applied to the surface to receive the pavement reinforcing fabric at an approximate rate of 0.25-gallon per square yard of surface covered. The exact rate will be determined by the Engineer. The binder shall be applied to a width equal to the width of the fabric mat plus 3 inches on each side.

The temperature of the asphalt binder shall be greater than 300 degrees F when applied, but shall not exceed 325 degrees F when the fabric is placed. The width of the sprayed application shall be no more than 6 inches and no less than 2 inches wider than the fabric width.

Before applying binder, large cracks, spalls and chuckholes in existing pavement shall be repaired as directed by the Engineer, and such repair work will be paid for provided by Section 5, "Street Failed Area Repair," and Section 9, "Asphalt Concrete," of these specifications.

14-4 Placing — The fabric shall be stretched, aligned, and placed with no wrinkles that lap. The test for lapping shall be made by gathering together the fabric in a wrinkle. If the height of the doubled portion of extra fabric is 1/2 inch or more, the fabric shall be cut to remove the wrinkle, then lapped in the direction of paving. Lap in excess of 2 inches shall be removed.

Pavement reinforcing fabric shall not be placed in areas of conform taper where the thickness of the overlying asphalt concrete is 0.08-foot or less.

If manual laydown methods are used, the fabric shall be unrolled, stretched, aligned, and placed in increments of approximately 30 feet.

Adjacent borders of the fabric shall be lapped 2 to 4 inches. The preceding roll shall lap 2 to 4 inches over the following roll in the direction of paving at ends of rolls or at any break. At fabric overlays, both the tack coat and the fabric shall overlap the previously placed fabric by the same amount.

Seating of the fabric with rolling equipment after placing will be permitted. Turning of the paving machine and other vehicle shall be gradual and kept to a minimum to avoid damage.

A small quantity of asphalt concrete, to be determined by the Engineer, may be spread over the fabric immediately in advance of placing asphalt concrete surfacing in order to prevent fabric from being picked up by construction equipment.

Public traffic shall not be allowed on the bare reinforcing fabric, except that public cross traffic shall be allowed to cross the fabric, under traffic control, after the Contractor has placed a small quantity of asphalt concrete over the fabric.

Care shall be taken to avoid tracking binder material onto the pavement reinforcing fabric or distorting the fabric during seating of the fabric with rolling equipment. If necessary, exposed binder material shall be covered lightly with sand.

14-5 Measurement — Pavement reinforcing fabric will be paid by the square

yard of horizontal surface area covered. Overlaps and materials wasted by the Contractor will not be measured for the purpose of payment.

14-6 Payment — The contract unit price paid for pavement reinforcing fabric shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work in finishing and placing pavement reinforcing fabric, as specified and no additional payment shall be made therefor.