

## SECTION 412 - PAVING FABRIC

**412.01 Description.** This section describes furnishing and placing paving fabric and asphalt cement between pavement layers.

**412.02 Materials.**

Asphalt Cement (PG 64-16)	702.01
Geotextiles for Paving Applications	716.04

**412.03 Construction.**

**(A) Weather Limitations.** Application of asphalt cement will not be allowed under the following conditions:

- (1)** On wet surfaces as determined by the Engineer.
- (2)** When air temperature is below 60 degrees F and falling. Asphalt cement may be applied when air temperature is above 50 degrees F and rising. Air temperature will be measured in shade and away from artificial heat.
- (3)** When weather conditions prevent proper method of construction.

**(B) Equipment.** Provide equipment for heating and distributing asphalt cement in accordance with Subsection 407.03(B) - Equipment.

**(C) Surface Preparation.** Immediately before applying asphalt cement, clean surface in accordance with Section 310 - Brooming Off.

Clean cracks and joints with compressed air. Seal cracks and joints wider than 3/8 inch with sand slurry consisting of 20 percent CSS-1 emulsified asphalt, approximately 2 percent portland cement, and water.

Clean potholes and other surface defects and fill with HMA Pavement, Mix V.

**(D) Application of Asphalt Cement.** Protect all structures, including guardrails, guardrail post, and other appurtenances, from asphalt cement splatter.

Apply asphalt cement to cover area of paving fabric plus 3 inches on each side.

### 412.03

48 Limit asphalt cement application only to areas that can be immediately  
49 covered with paving fabric and that can be paved on same day. Do not allow  
50 asphalt cement to chill, set up, dry, or otherwise impair placement of paving  
51 fabric.

52  
53 Apply asphalt cement at rate of 0.25 gallon asphalt per square yard, or  
54 as recommended by paving fabric manufacturer. Temperature of asphalt  
55 cement at time of spraying shall be between 290 degrees F and 325 degrees  
56 F.

57  
58 **(E) Paving Fabric Placement.** Before asphalt cement has cooled and  
59 lost its tackiness, place fabric onto asphalt cement, with heat-bonded side up  
60 and with minimum wrinkling or folding.

61  
62 Slit, lay flat, and tack all wrinkles or folds, or both, 1/2 inch or more in  
63 height. Broom or roll paving fabric to remove air bubbles and maximize fabric  
64 contact with pavement surface.

65  
66 Overlap fabric 6 inches at joints. Do not lap joint with more than two  
67 layers of fabric. Shingle transverse joints in direction of paving. Apply  
68 asphalt cement to fabric joints at rate of 0.2 gallon per square yard, or as  
69 recommended by paving fabric manufacturer.

70  
71 Construction equipment or vehicular traffic will not be allowed directly  
72 on paving fabric.

73  
74 Remove and replace damaged paving fabric at no increase in contract  
75 price or contract time.

76  
77 **(F) Paving Operation.** On same day and in areas where paving fabric  
78 was placed, construct HMA overlay in accordance with the contract  
79 documents. If asphalt cement bleeds through paving fabric prior to  
80 placement of HMA overlay, blot asphalt cement by spreading same type of  
81 HMA mixture on affected areas. Limit HMA laydown temperature to a  
82 maximum of 325 degrees F. If paving fabric is composed of polypropylene  
83 material, limit laydown temperature to a maximum of 300 degrees F.

84  
85 **412.04 Measurement.** The Engineer will measure paving fabric per square yard  
86 of finished fabric surface, not including overlaps, in accordance with the contract  
87 documents.

88  
89 **412.05 Payment.** The Engineer will pay for the accepted paving fabric at the  
90 contract price per square yard. Payment will be full compensation for the work  
91 prescribed in this section and the contract documents.

92  
93

93           The Engineer will pay for the following pay item when included in the proposal  
 94 schedule:

96	<b>Pay Item</b>	<b>Pay Unit</b>
97		
98	Paving Fabric	Square Yard

99  
 100           The Engineer will pay for:

101  
 102           **(A)**   20 percent of the contract bid price upon completion of preparing  
 103 surface.

104  
 105           **(B)**   30 percent of the contract bid price upon completion of furnishing and  
 106 applying asphalt cement binder.

107  
 108           **(C)**   40 percent of the contract bid price upon completion of furnishing and  
 109 placing of paving fabric.

110  
 111           **(D)**   10 percent of the contract bid price upon completion of cleaning up.

112  
 113           The Engineer will pay for the accepted HMA overlay in accordance with and  
 114 under Section 401 - Hot Mix Asphalt (HMA) Pavement.

115  
 116  
 117

**END OF SECTION 412**