

CHAMPAIGN COUNTY ENGINEER

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Engineer

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***This data must be obtained prior to cutting the fibers.**

Furnish fibers according to the Department's Qualified Products List (QPL). Ensure Type A and B fibers have a uniform singular color of white to light gray. Furnish Type C fibers intended for use in asphalt concrete mixes. Ensure Type C fibers are blended with 3/4 inch (19 mm) fibrillated polyolefin fibers or wax coated to ensure proper distribution in the mix. During production, the District will obtain a random 0.5 pound (250 gram) sample of the finished fibers for each 24,000 pounds (11,000 kg) of fiber used. Forward the sample to County Engineer.

826.03 Composition. Design the mix in accordance with 441.02 or 442.02. Add Type A or B fibers at the rate of 6.0 pounds per ton (3.0 kg/metric ton) of total mix. Add Type C fibers at the rate of 2 - 4 ounces (60 to 113 g) of pure aramid fiber, not including the weight of any polyolefin fibers or coating, per ton (metric ton) of total mix.

Use no more than 10 percent reclaimed asphalt concrete pavement. Do not use recycled asphalt shingles.

826.04 Mixing. Prior to the start of full production, produce a test batch of fiber asphalt concrete to demonstrate to District Testing how the fibers will be introduced and mixed into the asphalt concrete. Achieve satisfactory results before beginning full production. If during production an unsatisfactory mix is produced, cease production until a satisfactory test batch is produced.

When a batch type plant is used, add fibers according to the manufacturer's recommendation to the heated aggregate prior to introduction of the asphalt binder. Mix the aggregate and fibers dry for a minimum of 10 seconds after introduction of the fibers. The Laboratory may increase this mixing time if satisfactory results are not obtained.

When a drum mix type plant is used, introduce the fibers into the aggregates by the reclaimed material feed system or by an adjustable pipe near the asphalt feed pipe.

For Fiber Type B mixes, ensure the temperature of the aggregate and asphalt binder does not exceed 295 °F (146 °C) where the fiber is introduced.

826.05 Basis of Payment. The Department will pay for accepted quantities at the contract price for:
Item Unit Description

Tons of Asphalt Concrete Surface and Intermediate Course treated