

SECTION 326 ASPHALT CONCRETE - CLASS HR

326.1 DESCRIPTION

This work consists of constructing one or more courses of a recycled asphalt aggregate mixture on a prepared surface.

326.2 MATERIALS

Asphalt **cement** shall conform to Section 890.

The salvaged asphalt **mix material shall** be processed so that the maximum particle size in the cold feed will not exceed 1-1/2 inches (37.5 mm).

Asphalt concrete aggregates shall consist of salvaged asphalt mix material and virgin aggregate. The proportions of materials in the mixture will be determined by the job mix formula.

The virgin aggregates shall meet the specifications of the class and type specified. The **combined virgin aggregate and salvaged asphalt mix material** will not be further tested for gradation or quality control purposes.

The job mix established by the Engineer shall fix a single percentage of asphalt to be added to the aggregates, a single temperature at which the mixture is discharged from the mixer, a single temperature at which the mixture is to be delivered on the road, and the application temperature of the asphalt cement.

The following table sets forth the tolerances for the job mix formula:

Asphalt Content.....	±0.3%
Temperature of Mixture when emptied from mixer	±20EF (±11EC)
Temperature of Mixture on delivery to the road	-20EF & +30EF (-11EC & +17EC)
Asphalt Application Temperature.....	±15EF (±8EC)

326.3 CONSTRUCTION REQUIREMENTS

The construction requirements shall be as prescribed in Section 320.3 with the following modifications:

- A. The compacted thickness of each lift shall not exceed 3 inches (75 mm).
- B. The minimum density requirement shall be **92** percent of SD312.
- C. The salvaged asphalt mix, virgin aggregate materials, and asphalt cement shall be mixed by

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a conventional hot mix batch plant or a drum mix type hot plant.

- D. Batch Plants:** Batch plants shall be modified to permit the cold salvaged asphalt mix material to feed directly to the weigh hopper of the plant.

The heated virgin aggregate shall be deposited in the weigh hopper first followed by the cold salvaged mix material. These two materials shall be "dry" mixed for a minimum of 10 seconds before introduction of asphalt cement into the pugmill. Wet mixing time shall be a minimum of 25 seconds. Mixing times may be adjusted by the Engineer, as necessary, to achieve uniform mixing and coating. Discharge of the heated virgin aggregate shall be from one bin only, discharged into the center of the weigh hopper. The amount of aggregate stored in the bin shall not exceed one batch in weight and shall be fed into the bin in a manner that will prevent segregation.

- E. Drum Mix Plants:** Cold, salvaged asphalt mix shall be introduced into the drum and combined with the virgin aggregate so the salvaged asphalt mix material does not come into direct contact with the burner flame. Asphalt cement shall be added to the mixture in the drum after the two aggregates have been combined.

326.4 METHOD OF MEASUREMENT

Measurement as provided in Section 320.4.

326.5 BASIS OF PAYMENT

Payment as provided in Section 320.5.