

**ASPHALTIC CONCRETE TYPE LC
(J-13-0213)**

Asphaltic Concrete, Type LC shall meet all of the requirements of Asphaltic Concrete, Type SPH, listed in Section 1028 and these Special Provisions, with the following exceptions:

1. Material Characteristics:

- 1. a. The type of PG Binder used shall be PG Binder s/c_____.
- 1. b. Reclaimed Asphalt Pavement (RAP) will be allowed up to 35% maximum. The RAP must be fractionated prior to use, to a sizing such that the combined hot mix meets the required gradation.
- 1. c. The Asphaltic Concrete shall have a minimum Fine Aggregate Angularity (FAA) of 43.0 on the combined aggregate blend, there is no requirement for Coarse Aggregate Angularity (CAA).
- 1. d. Asphaltic Concrete Type LC shall use the gradation band listed below.

**Gradation Control Points for
0.19 Inch (4.75 mm) Nominal Size**

English Sieve (Metric)	Control Points (percent passing)	
	Minimum	Maximum
1/2 inch (12.5 mm)	98.0	100.0
3/8 inch (9.5 mm)	93.0	100.0
No. 4 (4.75 mm)	85.0	100.0
No. 8 (2.36 mm)	50.0	65.0
No. 16 (1.18 mm)	30.0	50.0
No. 30 (600 µm)	20.0	40.0
No. 50 (300 µm)	10.0	30.0
No. 100 (150 µm)	---	---
*No. 200 (75 µm)	4.0	10.0

* Dust to binder ratio is the ratio of the percentage by weight of aggregate finer than the No. 200 (75 µm) sieve to the asphalt content expressed as a percent by weight of total mix. The dust to binder ratio shall be between 0.70 and 1.70.

2. Design Criteria:

- 2. a. The optimum binder content shall be the binder content that produces 4.0 percent air voids at 50 gyrations, with a minimum content of 5.8%.

2. b. The Voids in the Mineral Aggregate (VMA) shall be a minimum of 17% ± 1% (mix design only).

3. Placing and Finishing:

3. a. Asphaltic Concrete shall be placed only when the ambient temperature is at least 40°F (4°C) and rising.
3. b. The asphaltic concrete temperature shall be 285° F (154°C) or above measured in the truck just prior to placement. Exceptions to this requirement are that the PG Binder Supplier recommended maximum temperature requirement shall not be exceeded.
3. c. The Contractor will use steel wheel compactors only. No rubber tire rollers will be allowed.

4. Asphaltic Concrete Density:

Regardless of layer thickness, Asphaltic Concrete Type LC will be monitored for density.

An initial rolling pattern test strip shall be completed to determine the rolling pattern that will target a minimum of 92.5% density. The Contractor shall monitor the density through a combination of rolling pattern and field testing as deemed necessary by the Engineer.

Method of Measurement:

For each lot of Asphaltic Concrete Type LC, the asphaltic concrete shall be paid by the contract unit price for the item "Asphaltic Concrete, Type LC" the asphaltic concrete unit price is a product of all applicable pay factors excluding density and CAA.

Basis of Payment:

Paragraphs 2.a., 2.b.(1), 2.b.(2) and 2.b.(3) of Subsection 503.06 are void and superseded by the following:

Asphaltic Concrete Type LC shall be paid per ton (Mg) for the item "Asphaltic Concrete Type LC".