

**ASPHALTIC CONCRETE TYPE RLC
(J-14-1211)**

Asphaltic Concrete, Type RLC shall meet all of the requirements of Asphaltic Concrete, Type SPR listed in Section 1028 in the Standard Specifications and these Special Provisions, with the following exceptions:

1. Material Characteristics

- 1. a. The type of PG Binder used shall be PG Binder 64-34.
- 1. b. The Asphaltic Concrete shall contain a minimum of 70 percent crushed aggregate. The crushed aggregate shall have a minimum Fine Aggregate Angularity (FAA) of 45. The remaining 30 percent of the aggregate shall be natural sand with no FAA minimum requirement. The FAA shall be sampled from the blended crushed cold feed material.
- 1. c. Asphaltic Concrete Type RLC shall use the gradation band listed below.

**Gradation Control Points for Asphaltic Concrete Type RLC
0.19 Inch (4.75 mm) Nominal Size**

English Sieve (Metric)	Control Points (percent passing)	
	Minimum	Maximum
1/2 inch (12.5 mm)	100.0	
3/8 inch (9.5 mm)	100.0	
No. 4 (4.75 mm)	90.0	100.0
No. 8 (2.36 mm)	70.0	90.0
No. 16 (1.18 mm)	50.0	65.0
No. 30 (600 µm)	35.0	55.0
No. 50 (300 µm)	15.0	30.0
No. 100 (150 µm)	10.0	18.0
*No. 200 (75 µm)	5.0	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.
- 2. b. The Voids in the Mineral Aggregate (VMA) shall be a minimum of 16% ± 1%.
- 2. c. The Voids Filled with Asphalt (VFA) shall be a 72% to 78%.

3. Placing and Finishing

- 3. a. Asphaltic Concrete shall be placed only when the temperature of the surface on which it is to be placed is at least 70°F (21°C) and the ambient temperature is at least 70°F (21°C) and rising.
- 3. b. The asphaltic concrete temperature shall be 300°F (149°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 only steel wheel compactors only. No rubber tire rollers will be allowed.
- 4. Asphaltic Concrete Density

Density will be monitored to insure compaction is optimized.

Method of Measurement:

Asphaltic Concrete Type RLC shall be measured for payment in tons at the contract unit price for the item "Asphaltic Concrete, Type RLC".

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