
Asphalt Specifications Update July 2019 Implementation and January 2020 In Process



Section 334 Superpave Asphalt Concrete

Composite Pay Factor (CPF) for the LOT will be calculated:
40% Density; 25% Air Voids; 20% Asphalt Binder Content;
10% Passing No. 200; and 5% Passing No. 8.

Density up 5%. AC Content down 5%.

Specification limits widened on the high side.

Section 334 Superpave Asphalt Concrete

Table 334-7
Specification Limits

| Quality Characteristic | Specification Limits |
|--|-------------------------------------|
| Passing No. 8 sieve (percent) | Target \pm 3.1 |
| Passing No. 200 sieve (percent) | Target \pm 1.0 |
| Asphalt Content (percent) | Target \pm 0.40 |
| Air Voids (percent) | 4.00 \pm 1.20 |
| Density, vibratory mode (percent of G_{mm}): | 93.00 + 3.00, - 1.20 |
| Density, static mode (percent of G_{mm}): | 92.00 + 4.00, - 1.50 ⁽¹⁾ |

(1): No vibratory mode in the vertical direction will be allowed. Other vibratory modes will be allowed, if approved by the Engineer.

Density was 93.00 + 2.00 and 92.00 + 3.00

Section 334 Superpave Asphalt Concrete

Small Quantity Pay Table

| Table 334-6 Small Quantity Pay Table | | |
|---|------------------------------|---------------------------------|
| Pay Factor | 1 Sublot Test Deviation | 2 Sublot Test Average Deviation |
| Density | | |
| 1.05 | + (0.00-2.00), - (0.00-0.50) | + (0.00-1.40), - (0.00-0.35) |
| 1.00 | + (2.01-3.00), - (0.51-1.00) | + (1.41-2.10), - (0.36-0.71) |
| 0.95 | + (3.01-3.50), - (1.01-2.00) | + (2.11-2.80), - (0.72-1.41) |
| 0.90 | + (3.51-4.00), - (2.01-3.00) | + (2.81-3.50), - (1.42-2.12) |
| 0.80 | + >4.00 | + (>3.50), - (>2.12) |

Density upper limits (+) increased to reduce instances of reduced pay factor for higher densities.

July 2019

Section 337 Friction Courses

The Department will design the FC-5 mixtures.

The Department will have three weeks to design the mix.

Section 337 Friction Courses

FC-5: Use a mixture having a gradation at design within the ranges shown in Table 337-1.

Table 337-1
FC-5 Gradation Design Range

| 3/4 inch | 1/2 inch | 3/8 inch | No. 4 | No. 8 | No. 16 | No. 30 | No. 50 | No. 100 | No. 200 |
|----------|----------|----------|-------|-------|--------|--------|--------|---------|---------|
| 100 | 85-100 | 55-75 | 15-25 | 5-10 | -- | -- | -- | -- | 2-5 |

-200 was 2 to 4%. Now 2 to 5%.

Slightly more dust = more durability.

January 2020 (In process)

Previously Discussed

- HP Usage and Blending (Memo)
- HP FC-5 Temperature Change
- Section 300 Tack
- Asphalt binder for mixes with RAP. Appropriate binder grade, sample when directed.

Considering

- Sublots with less than three cores
- Lot times greater than 30 or 60 days