

## **SUPERPAVE ASPHALT CONCRETE.**

**(REV 8-14-03) (1-04)**

SUBARTICLE 334-2.5.1 (Pages 246-247) is deleted and the following substituted:

**334-2.5.1 General Requirements:** Subject to certain requirements, RAP material may be used as a component material of the asphalt mixture. Where the material is recovered from a FDOT project, the Composition of Existing Pavement may be available on the Department's web site. The URL for obtaining this information, if available, is: [www.dot.state.fl.us/statematerialsoffice/Bituminous/CentralBitLab/AsphaltCompositions/Compositions.htm](http://www.dot.state.fl.us/statematerialsoffice/Bituminous/CentralBitLab/AsphaltCompositions/Compositions.htm)

RAP may be used as a component material of the asphalt mixture subject to the following conditions:

1. The Contractor assumes full responsibility for the design and construction of asphalt mixes which incorporate RAP as a component material.
2. For design purposes, the Contractor assumes responsibility for establishing accurate specific gravity values for the RAP material. This may be accomplished by one of the following methods:
  - a) Calculation of the bulk specific gravity value based upon the effective specific gravity of the RAP, determined on the basis of the asphalt binder content and maximum specific gravity. The Engineer will approve the estimated asphalt binder absorption value used in the calculation.
  - b) Testing of the extracted aggregate obtained through a vacuum extraction or ignition oven extraction.
3. For projects with Traffic Levels D and E, do not permit the amount of RAP material used in the mix to exceed 30% by weight of total aggregate. For projects with Traffic Levels A, B and C, do not permit the amount of RAP material used in the mix to exceed 50% by weight of total aggregate. When using a PG 76-22 Asphalt Binder, limit the amount of RAP material used in the mix to a maximum of 15%.
4. Use a grizzly or grid over the RAP cold bin, in-line roller crusher, screen, or other suitable means to prevent oversized RAP material from showing up in the completed recycled mixture.

If oversized RAP material appears in the completed recycled mix, take the appropriate corrective action immediately. If the appropriate corrective actions are not immediately taken, stop plant operations.
5. Provide stockpiled RAP material that is reasonably consistent in characteristics and contains no aggregate particles which are soft or conglomerates of fines.
6. Provide RAP having a minimum average asphalt content of 4.0% by weight of total mix. The Engineer may sample the stockpile to verify that this requirement is met.

SUBARTICLE 334-4.3.2 (Page 252) is deleted and the following substituted:

**334-4.3.2 Roadway Testing Requirements:** For density determination, obtain a minimum of five 6 inch [150 mm] diameter roadway cores within 24 hours of placement at random locations as directed by the Engineer within each subplot. Test these Quality Control

samples for density in accordance with 334-5. The  $G_{mm}$  used for the density evaluation will be based on the Quality Control test result for the subplot.

On coarse mixes when the average density for the Initial Production LOT is less than 93.00% of  $G_{mm}$ , cut five 6 inches [150 mm] diameter roadway cores at locations determined by the Engineer for evaluation of permeability by the Department. The Department will have a maximum of three working days from the date the cores are obtained to complete the permeability evaluation.

SUBARTICLE 334-4.3.4 (Pages 252 and 253) is deleted and the following substituted:

**334-4.3.4 Criteria for Initiation of 4,000 Ton [4,000 Metric Ton] LOTs:** At the completion of the Initial Production LOT, the quality of the as-produced material will be evaluated by the Engineer. Begin the option of 4,000 ton [4,000 metric ton] LOT sizes only when authorized by the Engineer based upon the Quality Control test results for the Initial Production LOT meeting the following:

1. A minimum Pay Factor of 0.90 for each asphalt quality characteristic as defined in 334-8.

2. A favorable comparison with the Verification test results. Comparisons between the Quality Control and Verification test results will be based on between-laboratory precision values shown in Table 334-4.

3. An average coefficient of permeability of less than  $125 \times 10^{-5}$  cm/s as determined in accordance with FM 5-565. Permeability criteria applies only to coarse mixes when the average density for the LOT is less than 93.00% of  $G_{mm}$ .

In the event that the Initial Production LOT does not meet these criteria, limit production LOT sizes to 2,000 tons [2,000 metric tons] with 500 ton [500 metric ton] sublots until these criteria are met.