



Florida Department of Transportation

JEB BUSH
GOVERNOR

State Materials Office – Materials Research Park
5007 N.E. 39th Avenue, Gainesville, FL 32609
Phone (352) 955-6600, Fax (352) 955-6613

JOSÉ ABREU
SECRETARY

****Expired****

November 2, 2004

MATERIALS BULLETIN NO. 08-04

MEMORANDUM NO. 20-04

**TO: DISTRICT MATERIALS ENGINEERS
DISTRICT CONSTRUCTION ENGINEERS**

FROM: Thomas O. Malerk, P.E., Director, State Materials Office
Ananth Prasad, P.E., Director, State Construction Office

COPIES: Bob Burleson, Jim Warren, Jim Musselman

SUBJECT: Asphalt Mixture Reheating

Problems have been reported with reheating hot mix asphalt (HMA) samples, particularly in situations where a small oven is used; the oven is opened frequently; and/or an inappropriate sample box size is used. The reheating procedure described in Subarticle 334-4.5 entails heating the boxed sample at the specified roadway compaction temperature for 1½ hours, followed by the conditioning of the sample in a covered, flat, shallow pan for one additional hour at the roadway compaction temperature. In order to comply with this requirement, the HMA Producer must provide an oven capable of heating HMA samples to within $\pm 10^{\circ}\text{F}$ [6°F] of the target roadway compaction temperature (as shown on the mix design) when the one hour conditioning is complete.

In addition, there must also be sufficient oven capacity to handle the required number of samples, projects, and types of samples (G_{mm} , G_{mb} , washed gradation samples, stockpile samples, etc.). If necessary, the HMA Producer must have separate ovens if the number and types of samples require frequent opening of the oven, thereby reducing the oven's effectiveness. Repeated failures in meeting these basic laboratory equipment requirements should be addressed by suspending the HMA Producer's Laboratory Qualification.

The box size that the hot mix asphalt samples are stored in is also critical to the efficient heating of the samples. Oversized and/or corrugated boxes reduce the efficiency of heating. Thin walled, non-corrugated boxes, of approximately 12 x 6 x 4 inches in size have proven effective for efficient heating.

Should you have any questions or require additional information, please contact Greg Sholar at (352) 955-2920 or by e-mail at gregory.sholar@dot.state.fl.us.

TOM/AP/gs



Florida Department of Transportation

JEB BUSH
GOVERNOR

State Materials Office – Materials Research Park
5007 NE 39th Avenue, Gainesville, FL 32609
Phone (352) 955-6600, Fax (352) 955-6613

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: October 22, 2004

TO: Mayur Patel, Bouzid Choubane, Dave Horhota,
Rick Kessler, and John Cooper

FROM: Thomas O. Malerk, Director, State Materials Office 

SUBJECT: Delegation of Signature Authority

In my absence for the month of November 2004, I delegate signature authority to Mayur Patel and, in his absence, Richard Kessler. The delegates will sign their own name for Thomas O. Malerk, Director, State Materials Office and attach a copy of this signature authority to all outgoing correspondence.

TOM:dd