

## ORIGINATION FORM

**THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR** (The person who receives or originates the issue and needs to forward the issue for action.)

**Specification:** 234

**Subject:** Superpave Asphalt Base

**Origination date:** May 28, 2009

**Originator:** Greg Sholar

**Office/Phone:** State Materials Office / 352.955.2920

**Problem statement:** Address issue related to determining the spread rate.

**Proposed solution:** Modified wording for calculating the spread rate to be similar to specifications 334 and 337.

**Information source:** Construction Office.

**Recommended Usage Note:** All asphalt projects.

**Estimated fiscal impact, if implemented:** None.

**Implementation of these changes, if and when approved, will begin with the January 2010 letting.**



## *Florida Department of Transportation*

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### **M E M O R A N D U M**

**DATE:** June 11, 2009

**TO:** Specification Review Distribution List

**FROM:** Rudy Powell, Jr., P.E., State Specifications Engineer

**SUBJECT:** Proposed Specification: 2340801, Superpave Asphalt Base – Thickness Requirements

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Tom Malerk to modify the wording for calculating the spread rate to be similar to Sections 334 and 337.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after July 13, 2009, may not be considered. Your input is encouraged.

RP/dr  
Attachment

**SUPERPAVE ASPHALT BASE – THICKNESS REQUIREMENTS.**  
**(REV 6-1-09)**

SUBARTICLE 234-8.1 (Page 220) is deleted and the following substituted:

**234-8.1 General:** *The total thickness of the Type B asphalt layer(s) will be the plan thickness as shown in the Contract Documents. Before paving, propose a thickness for each individual layer meeting the requirements of this specification, which when combined with other layers (as applicable) will equal the plan thickness. For construction purposes, the plan thickness and individual layer thickness will be converted to spread rate based on the maximum specific gravity of the asphalt mix being used, as well as the minimum density level, as shown in the following equation:*

$$\text{Spread rate (lbs/yd}^2\text{)} = t \times G_{mm} \times 43.3$$

*Where: t = Thickness (in.) (Plan thickness or individual layer thickness)*

*G<sub>mm</sub> = Maximum specific gravity from the verified mix design*

*The weight of the mixture shall be determined as provided in 320-2.2. For target purposes only, spread rate calculations should be rounded to the nearest whole number.*

*Note: Plan quantities are based on a G<sub>mm</sub> of 2.540, corresponding to a spread rate of 110 lbs/yd<sup>2</sup>-in. Pay quantities will be based on the actual maximum specific gravity of the mix being used.* ~~When the Department pays for the pavement on a square yard basis, the Engineer will determine the thickness of the asphalt base based upon the spread rate of the material. The minimum spread rate for the total thickness shall be established from the plan thickness in the following manner: 43.3 lbs/sy multiplied by the maximum specific gravity of the mix (as indicated on the mix design) for every one inch of desired thickness, or as determined by the Engineer. The weight of the mixture shall be determined as provided in 320-2.2 (including the provisions for automatic recordation system).~~

~~The spread rate for each individual layer shall be established by the Engineer. The minimum layer spread rate shall be 43.3 lbs/sy multiplied by the maximum specific gravity (G<sub>mm</sub>) of the mix (as indicated on the mix design) for every one inch of desired thickness.~~