



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET  
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Andy Beshear  
GOVERNOR

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**CONSTRUCTION MEMORANDUM**

No. 03-24

**TO:** Executive Directors  
Project Delivery and Preservation Branch Managers  
Engineering Support Branch Managers  
Materials Section Supervisors

**FROM:** Matthew P. Simpson, P.E. *MPS*  
Director, Division of Construction

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Director, Division of Construction

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Director, Division of Materials

**DATE:** July 22, 2024

**SUBJECT:** Performance Testing Requirements for Laboratory Asphalt Mixture Designs

The Kentucky Transportation Cabinet continues to look for ways to improve the life of pavements in our state. Based on the work of the Asphalt Forum and supporting research efforts over the past six years, effective with the August 22, 2024, letting, we are implementing a supplemental specification for performance testing of laboratory asphalt mixture designs. This change modifies Subpart 5 of Subsection 403.03.03 (Preparation of Mixture), Part C (Mix Design Criteria) as follows:

5) Mix Performance Verification. For ALL 0.5-inch and 0.38-inch nominal surface mixtures, ensure that the following limits are met or exceed to obtain approval:

<b>Mix Design Performance Limits</b>		
<b>Class</b>	<b>Hamburg Passes<sup>1</sup> (min)</b>	<b>KYCT Index<sup>2</sup> (min)</b>
PG 64-22		
2	7,500	110
3	10,000	110
4	10,000	125
PG 76-22		
ALL	20,000	75

<sup>1</sup>Mixture rutting resistance shall meet the above number of passes for a critical rut depth of ½" (12.5 mm). The "Hamburg Passes" value is determined by averaging the results from both sides of the test.

<sup>2</sup>Test in accordance with KM 64-450.

After an evaluation period of one year, the intent of the Cabinet is possibly to modify this specification further based on the experience of the previous year.

Thank you for your cooperation as we strive to improve the performance of asphalt pavements in Kentucky. Please let us know if you have any questions.

MPS/JMR/AHM/ahm

c: James Ballinger, State Highway Engineer  
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