

## PROCEDURE FOR VERIFYING MEASURED SIEVES

### 1. PURPOSE:

- 1.1. This method provides instructions for checking the physical condition of laboratory test sieves ranging in size from 4-inch down through No. 4.

### 2. INSPECTION EQUIPMENT REQUIRED:

- 2.1. Calipers readable to 0.01 mm.

### 3. TOLERANCE:

- 3.1. Sieves shall meet the physical requirements specified in AASHTO M92.

### 4. PROCEDURE:

- 4.1. Select and mark 4 individual sieve openings along a 45° line. Measure and record both dimensions of the opening to the nearest 0.01 mm. Determine the average dimension of all 8 measures.

- 4.1.1. If the sieve is too large to have 4 holes in a 45° line, then measure at random 4 holes in the sieve.

- 4.1.2. If the sieve does not have 4 holes, measure all the holes and average the dimensions.

- 4.2. Verify that the average is within specification listed in AASHTO M92 Table 1 column 4.

- 4.3. Inspect the general condition of the sieve. Check the frame and solder joints for cracks or holes.

- 4.4. Make sure the sieve has an appropriate label.

- 4.5. Check for tightness of the wires on each sieve.

- 4.6. Sieves that do not comply with specifications should be clearly marked and/or discarded.

5. REPORT: See attached Equipment Verification Record.

APPROVED

DIRECTOR  
DIVISION OF MATERIALS

DATE 02/21/08

APPROVED

Director

DIVISION OF MATERIALS

DATE 06/01/06

Kentucky Method 64-628-086

Dated 5/30/06 02/21/08

Supersedes KM 64-628-06

Dated 05/30/06

Attachment

KM6287086.doc

Kentucky Transportation Cabinet, Division of Materials  
Aggregate Section

EQUIPMENT VERIFICATION RECORD

Inspector: \_\_\_\_\_

Date: \_\_\_\_\_

Equipment Name: Measured Sieves

Previous Verification Date: \_\_\_\_\_

Next Due Date: \_\_\_\_\_

Verification Frequency: 6 Months

Verification Procedure Used: KM 64-628

Caliper Model No. \_\_\_\_\_

Caliber Serial No. \_\_\_\_\_

Indicate Sieve Size Being Measured: ( 8 " - 12" - 15" x 24" )

Sieve Size	1-H	1-V	2-H	2-V	3-H	3-V	4-H	4-V	TOTAL	AVG	RESULT	SIEVE CONDITION
100mm												
90mm												
75mm												
63mm												
50mm												
37.5mm												
25mm												
19mm												
12.5mm												
9.5mm												
6.3mm												
4.75mm												

100mm = 4 in.  
90mm = 3.5 in.  
75mm = 3 in.  
63mm = 2.5 in.  
50mm = 2 in.  
37.5mm = 1.5 in.

25mm = 1 in.  
19mm = 3/4 in.  
12.5mm = 1/2 in.  
9.5mm = 3/8 in.  
6.3mm = 1/4 in.  
4.75mm = #4

Note: For larger size sieve tolerances, see table 1 of AASHTO M 92.

Compare average to these tolerances

Sieve Size	Tolerance
2" 50mm	+/- 1.5mm
1.5" 37.5mm	+/- 1.1mm
3/4" 19mm	+/- 0.6mm

Sieve Size	Tolerance
1/2" 12.5mm	+/- 0.39mm
3/8" 9.5mm	+/- 0.3mm
#4 4.75mm	+/- 0.15mm