

SIEVE VERIFICATION PROCEDURE #1

Revised 4/24/2002 (4.2.2020 - fillable)

Equipment Checked: **SIEVES (COARSE)**

Purpose:

This method provides instructions for checking the physical condition of laboratory tests sieves ranging in size from 75 mm (3 in.) to 0.075 mm (No. 200).

Inspection Equipment Required:

1. A caliper readable to 0.01 mm. (Use for No. 4.75 mm sieve and coarser).
2. Visual inspection.

Tolerance:

Sieves shall meet the physical requirements specified in AASHTO M 92 (ASTM E 11).

Procedures:

(Steps 1 & 2 apply only to sieves having openings greater than 4.75 mm).

1. Select an adequate number of individual sieve openings (3 or 4) along a 45 deg.line. Measure and record the sieve openings to verify that the size opening indicated on the label is correct.
2. Repeat step 1, rotating the sieve 90 degrees.
3. Inspect the general condition of the sieve. Check the frame and solder joints for racks or holes (check for pin holes in the finer sieves).
4. Make sure the sieve has an appropriate label.
5. Check for tightness of the wires on each individual sieve.

EQUIPMENT CALIBRATION RECORD

Calibration Procedure No. 1 Coarse Sieves (AASHTO M 92)

Date:	Calibrated by:
Previous Calibration Date:	Next Due:
Frequency: 12 Months	
Calibration Equipment	Serial Number
Calipers	

<u>Sieve Type</u>	<u>Specification (mm)</u>
3" (75mm)	72.8-77.2
2½" (63mm)	61.1-64.9
2" (50mm)	48.5-51.5
1-1/2" (37.5mm)	36.4-38.6
1" (25.0mm)	24.2-25.8
¾" (19.0mm)	18.4-19.6
5/8" (16.0mm)	15.5-16.5
½" (12.5mm)	12.11-12.89
3/8" (9.5mm)	9.2-9.8
No.4 (4.75mm)	4.6-4.9
No. 8 (2.36 mm)	-----

Sieve Size	Sieve I.D.	Specification (mm)	Reading	Visual Inspection	Action Recommended	
					Accept	Replace