

# Sieve Inspection

AASHTO R18 AASHTO M92 / ASTM E11

<b>Sieves No. 5 and finer.</b>	<b>Sieves No. 4 and coarser.</b>
<p><u>Sieve Verification Equipment Required:</u></p> <p>An eye comparator with a 0.1-mm scale or a magnifier.</p>	<p><u>Sieve Verification Equipment Required:</u></p> <p>A caliper readable to 0.01 mm</p>
<p><b><u>Procedure for Sieves No. 6 and finer:</u></b></p> <ol style="list-style-type: none"><li>1. Record the sieve identification number, date of inspection, manufacturer, and sieve size.</li><li>2. Examine the sieve frames. Check frame and solder joints for cracks or holes. The frame shall be without distortion, looseness, or waviness. Inspect joint between wire cloth and the frame; joint shall be constructed so that the material will not be trapped.</li><li>3. Inspect the sieve cloth against a uniformly illuminated background. Use the eye comparator or magnifier to examine any suspicious areas of the cloth. If obvious deviations, such as weaving defects, creases, wrinkles, or excessive foreign matter in the cloth are found, the wire cloth is unacceptable.</li><li>4. Record Verified By, WAQTC number, Signature, Previous Verification Date, and Reverification Due Date.</li><li>5. Record any comments.</li></ol>	<p><b><u>Procedure for Sieves No. 4 and coarser.</u></b></p> <ol style="list-style-type: none"><li>1. Record the sieve identification number , date of inspection, manufacturer, and sieve size.</li><li>2. Examine the sieve frames. Check frame and solder joints for cracks or holes. The frame shall be without distortion, looseness, or waviness. Inspect joint between wire cloth and the frame; joint shall be constructed so that the material will not be trapped.</li><li>3. Select 5 diagonal openings and measure those openings in the sieve, both x and y directions. Be sure to include, in the selection, any opening that appear distorted or unusual in size. Measure each opening as the distance between parallel wires measured at the center of each opening.</li><li>4. Determine and record if the sieve meets the tolerances of AASHTO M-92 see Table.</li><li>5. Record Verified By, WAQTC number, Signature, Previous Verification Date, and Reverification Due Date.</li><li>6. Record any comments.</li></ol>

## Wire Cloth Sieves Verification Procedure (No. 5 and finer)

*Verification Frequency: 6 months*

Identification No.:	Date:
Manufacturer:	Sieve size:

General condition of sieve frame:	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable
General condition of sieve cloth, Test #1 Observation of deviations, such as weaving defects, creases, wrinkles	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable
Sieve opening appearance, Test #2 Observation of oversized openings.	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable

Remarks:
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Verified By:	Signature:
WAQTC No.	
<b>Date of Last Verification:</b>	<b>Reverification Due Date:</b>

## Wire Cloth Sieves Verification Procedure (No. 5 and finer)

*Verification Frequency: 6 months*

Identification No.:	Date:
Manufacturer:	Sieve size:

General condition of sieve frame:	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable
General condition of sieve cloth, Test #1 Observation of deviations, such as weaving defects, creases, wrinkles	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable
Sieve opening appearance, Test #2 Observation of oversized openings.	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable

Remarks:
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Verified By:	Signature:
WAQTC No.	
<b>Date of Last Verification:</b>	<b>Reverification Due Date:</b>

## Wire Cloth Sieves Verification Procedure (No. 4 and courser)

*Verification Frequency: 6 months*

Identification No.:	Date:
Manufacturer:	Sieve size:

General condition of sieve frame:	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable
General condition of sieve cloth, Test #1 Observation of deviations, such as weaving defects, creases, wrinkles and maximum individual sieve opening not exceeded	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable
Sieve opening appearance, Test #2 Observation of oversized openings must be less than 10%	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable

Opening #	Opening Size X Vertical	Opening #	Opening Size Y Horizontal	Sieve	Max. Opening (mm)
				3"	78.7
				2 1/2"	66.2
				2"	52.6
				1 3/4"	47.4
				1 1/2"	39.5
				1 1/4"	33.2
				1"	26.4
				7/8"	23.7
				3/4"	20.1
				5/8"	17.0
				1/2"	13.31
				7/16"	11.94
				3/8"	10.16
				5/16"	8.58
				1/4"	6.78
				No. 4	5.14

Remarks:

Verified By:	Signature:
WAQTC NO.	
<b>PREVIOUS VERIFICATION DATE:</b>	<b>REVERIFICATION DUE DATE:</b>