

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT VERIFICATION PROCEDURE

LA ABRASION MACHINE (AASHTO T96)

EQUIPMENT

1. Steel rule readable to 1/16 inch (1 mm).
2. Stopwatch readable to 0.1 second.
3. Balance with 5 kg capacity, readable to 1 gram.

PROCEDURE

A. L. A. MACHINE

1. Measure and record the inside diameter of the drum at the left and right edges to nearest 1/8 inch.
2. Measure and record the wall thickness at the left and right edge to the nearest 1/16 inch.
3. Determine if the cylinder is horizontal using a steel ball to check left-to-right roll.
4. Measure and record the shelf width inside the drum to the nearest 1/16 inch.
5. Measure and record the distance from the shelf to the opening in the direction of rotation.
6. Using the stopwatch, determine the RPM to the nearest whole number over a 5 minutes period. Record the RPM.
7. Check that the number of revolutions is 500 by looking at the counter on the machine.

B. STEEL SPHERES

1. Determine and record the mass of each individual sphere to the nearest gram.
2. Determine and record the mass of the collective charge(s) to the nearest gram.