

MECHANICAL COMPACTION HAMMER VERIFICATION PROCEDURE #6A

Revised June 14, 2002

Equipment Checked: **MECHANICAL COMPACTION (AASHTO T 99) (AASHTO T 180)**

Purpose:

This method provides instructions for checking the critical dimensions and drop of the proctor hammer.

Inspection Equipment Required:

1. Calipers readable to 0.001 inches.
2. Tape measure readable to 1/16 inch.
3. Balance, capacity 5 kg (5000 g) readable to 1 g.
4. Molds

Tolerance:

Equipment shall meet the dimensional tolerances specified in the applicable test method.

Procedure:

1. Measure and record the diameter of the rammer face by taking two readings 90 degrees apart.
2. Determine and record the mass to the nearest 1 g.
3. Determine and record the drop of the hammer 18.00 ± 0.06 inches (T 180); 12.00 ± 0.06 inches (T 99).
4. Mechanical rammer shall be calibrated by ASTM D2168 Method B to give the same moisture density results as with a manually operated rammer. CENTRAL LAB USE ONLY.

EQUIPMENT CALIBRATION RECORD

Calibration Procedure No. 6A Mechanical Rammer Proctor (AASHTO T 99 & T 180)

Date:	Calibrated by:
Previous Calibration Date:	Next Due:
Frequency: 12 months	
Manufacturer:	
Action Recommended:	
Repair _____ Replace _____ None _____ Other _____	
Calibration Equipment	Serial Number
Calipers, readable to 0.001"	
Balance, 5,000 g. readable to 1 g	
Tape Measure Readable to 1/16"	
Rammer Diameter #1 _____ #2 _____	
Weight _____ Drop _____	

Diameter	Fall	Weight	
T-99	1.985-2.010"	12± 1/16"	5.48-5.52 lb.
T-180	1.985-2.010"	18± 1/16"	9.98-10.02 lb.

4/24/2002