

Equipment Checklist

AASHTO T 99 The Moisture-Density Relations of Soils Using a 2.5kg or 5.5lb Rammer and a 305mm or 12in Drop

		P	F	N/A
Molds				
1.	Diameter 4.000 ± 0.016 in (101.60 ± 0.40 mm) or 6.000 ± 0.026 in (152.40 ± 0.70 mm)			
2.	Height 4.584 ± 0.018 inch (116.40 ± 0.50 mm)			
3.	Base plate plane to 0.005 inches (0.13 mm)			
4.	Detachable collar			
5.	Determine mold volume by "Calibration of Measure" section in T 19M/T 19			
Manual Rammer				
6.	Diameter 2.00 ± 0.01 inch (50.80 ± 0.25 mm) in service not less than 1.985 inch (50.42 mm)			
7.	Weight 5.5 ± 0.02 lbs (2495.0 ± 9.0 g)			
8.	Drop height 12.00 ± 0.06 inch (305 ± 2 mm)			
9.	Unrestricted drop			
10.	4 vent holes at each end no smaller than 0.375 in (9.5 mm) in diameter			
Mechanical Rammer				
11.	Diameter 2.00 ± 0.01 inch (50.80 ± 0.25 mm), in service not less than 1.985 inch (50.42 mm)			
12.	Drop height 12.00 ± 0.06 inch (305 ± 2 mm)			
13.	Drop adjusts to elev. of soil			
14.	Weight 5.5 ± 0.02 lb (2495.0 ± 9.0 g)			
15.	Mechanical Rammer calibrated once a year after any repair or when results are questionable by ASTM D2168			
16.	Sample extruder (or other device adopted to extract compacted samples from molds)			
Balances – Conforming to M231				
17.	Meeting the requirements of class G 5 capacity of approx. 11.5 kg and readability of 1.0 g			
18.	Also a balance meeting the requirements of class G 2 capacity and readability 0.1 g			
Drying Oven				
19.	Capable of maintaining 230 ± 9° F (110 ± 5° C)			
Straightedge				
20.	Made of Steel			
21.	At least 10 in (25 cm) long – one beveled edge			
22.	Edge plane to 0.01in or 0.1% of length within the portion used for trimming			
Sieves				
23.	Conforming to M92			
Mixing Tools				
24.	Pans and or Spoons			
Containers (for each moisture content)				
25.	Resistant to corrosion and not subject to change in mass or disintegration			

Remarks:

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

Employer's/Supervisor's E-mail Address: _____