

PROCEDURE FOR CALIBRATING, STANDARDIZING OR CHECKING EQUIPMENT

Revised 12/96, 3/11, 7/14

PROCEDURE #7

Equipment Standardized:

UNIT WEIGHT MEASURE

T 19, T 121, SD 205, SD 403, SD 411

Purpose:

To provide instructions for standardizing the critical dimensions of the unit weight measure and rod.

Inspection Equipment Required:

1. Caliper readable to 0.001".
2. Straightedge 15" long.
3. Feeler gage 0.01" thick.
4. 12' tape measure.
5. Glass plate to cover measure
6. Scale readable to the nearest 0.1 lb.

Tolerance:

Equipment shall meet the dimensional tolerances specified in the test method listed above.

Procedure:

1. Record the capacity.
2. Measure and record the inner diameter.
3. Measure and record the inside height.
4. Is the top rim smooth and watertight? Place the glass plate on top of the measure. With the feeler gage check around the top rim for gaps exceeding 0.01".
5. Measure the outside height, measure the inside height. The difference between these will be recorded as thickness of the bottom.
6. Measure and record the thickness of the top inch of the rim.
7. For standardization of the measure see AASHTO T 19 Section 8. Record the volume and the date on the outside of the measure.
8. Record the length and diameter of the rod.