

**LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT  
VERIFICATION PROCEDURE**

**PHYSICAL DIMENSIONS OF UNIT WEIGHT MEASURE**

**I. EQUIPMENT**

- A. Metal ruler, accurate to 0.02 inch.
- B. Caliper, accurate to 0.001 inch.
- C. Feeler gage measuring 0.01 inch.
- D. Two pieces of plate glass, preferably at least 1/4 inch thick and at least 1 inch larger than the diameter of the measure.

**II. PROCEDURE**

- A. Obtain three readings of the inside diameter of the measure with a caliper and record to the nearest 0.01 inch. Calculate and record the average.
- B. Obtain three readings of the inside height of the measure with the metal ruler and record to the nearest 0.02 inch. Calculate and record the average. Check to ascertain that the height is 80 to 150 % of diameter.
- C. Obtain three readings for the outside height of the measure with the metal ruler and record to the nearest 0.02 inch. Calculate and record the average.
- D. Subtract the average found in step 2 from the average found in step 3 and record as the thickness of the bottom.
- E. Obtain three readings of the wall thickness to the nearest 0.01 inch and calculate the average.
- F. Obtain three reading of the edge thickness to the nearest 0.01 inch and calculate the average.
- G. Is the top plane within 0.01 inch? The top rim is satisfactorily if a 0.01-inch feeler gage cannot be inserted between the rim and a piece of 1/4 inch or thicker plate glass laid over the measure.

**STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
VERIFICATION OF  
UNITS WEIGHT MEASURES  
verification procedures used: DOTD A14/ AASHTO T 19**

Calibration Frequency: 12 months

Previous Calibration Date: \_\_\_\_\_

Date of Calibration: \_\_\_\_\_

Next Calibration Due: \_\_\_\_\_

Identification No.: \_\_\_\_\_

Property control no.: N/A

Calibrated by: \_\_\_\_\_

Mfg./distributor: N/A

Calibration equipment used: \_\_\_\_\_

Bottom Thickness					
Readings	Inside Height	Outside Height	Bottom Thickness	In.	mm
#1					
#2					
#3					
Average					

Readings	Diameter	Height	Wall Thickness	Edge Thickness	In.	mm
#1						
#2						
#3						
Average						

Is top rim plane within 0.01 inch: \_\_\_\_\_ Yes \_\_\_\_\_ No

Recommended action: repair \_\_\_\_\_ replace \_\_\_\_\_ none \_\_\_\_\_

Comments: \_\_\_\_\_

Checked By: \_\_\_\_\_

Reviewed By: \_\_\_\_\_