

**ASPHALT IN-HOUSE CALIBRATION PROCEDURE # 7  
APPARATUS FOR COLLARS AND FLOAT TEST OF BITUMINOUS MATERIALS**

**EQUIPMENT CHECKED: APPARATUS FOR COLLARS AND FLOAT TEST OF BITUMINOUS MATERIALS (AASHTO T 50) (ASTM D 139)**

---

**1. SCOPE**

1.1 This procedure provides instructions for checking equipment used to perform the float test.

---

**2. APPARATUS**

*Inspection Equipment Required:*

1. Caliper, readable to 0.001 in.
2. Balance, readable to 0.01 g
3. Testing bath, least 185 mm in interior diameter and 185 mm in depth
4. Thermometer, readable to 0.2°F
5. Metal ruler, readable to 1.0 mm

*Tolerance:*

Equipment shall meet the tolerances specified in test methods AASHTO T 50 and ASTM D 139.

---

**3. PROCEDURE**

**FLOAT:**

- 3.1 Using a balance capable of weighing to the nearest 0.001, weigh and record the weight of the float.
- 3.2 Viewing the illustration in test method T 50 or D 139, use a caliper readable to 0.001 inches to measure the total height of the float. Record the measurement.
- 3.3 Measure and record the height of rim above lower side of shoulder.
- 3.4 Measure and record the thickness of the shoulder.
- 3.5 Measure and record the diameter of the opening.

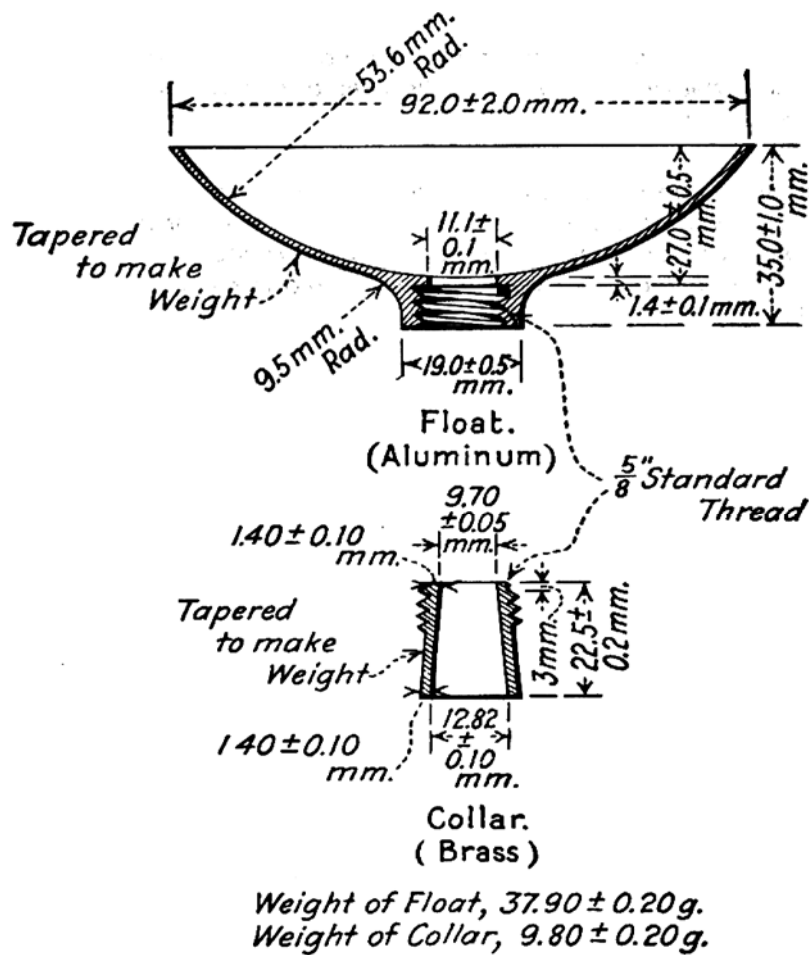
**ASPHALT IN-HOUSE CALIBRATION PROCEDURE # 7  
APPARATUS FOR COLLARS AND FLOAT TEST OF BITUMINOUS MATERIALS**

**COLLAR:**

- 3.6 Weigh and record the weight of the collar.
- 3.7 Measure and record the total height of the collar.
- 3.8 Measure and record the inner diameter at the bottom and again at the top.

**ASSEMBLY:**

- 3.9 Fill collar as described in section 5.3 in test method D 139. With float and collar assembled, place it in test bath.
- 3.10 Measure and record the distance between the water surface and the top of the rim.



**FIG. 1 Float Test Apparatus**