

**CONCRETE TESTING EQUIPMENT**

**LABORATORY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

All measurements are made to the nearest thousandths of an inch (0.000") unless otherwise stated.

**SLUMP CONE (KM 64-302) ID #** \_\_\_\_\_

Base (8" ± 1/8" ID)                    1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

Top (4" ± 1/8" ID)                    1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

Height (12" ± 1/8")                    1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

Thickness

--Top of Mold                            1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_  
 (min. .065" if formed by spinning .045")

--Bottom of Mold                        1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

Condition: \_\_\_\_\_

Date checked: \_\_\_\_\_ Next Due: \_\_\_\_\_ Checked by: \_\_\_\_\_

**AIR METER – PRESSURE (KM 64-303) ID #** \_\_\_\_\_

Bucket

--Height                                    1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

--Diameter (± 25% x Ht.)              1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

Cover Assembly

--Verify that bleeder valves, pump and petcocks are working properly

--Is dial readable to 0.1%? Yes \_\_\_\_\_ No \_\_\_\_\_

--Verify initial pressure setting. Old \_\_\_\_\_ New \_\_\_\_\_

--Calibrated @ 5% Yes \_\_\_\_\_ No \_\_\_\_\_ @ 10 % Yes \_\_\_\_\_ No \_\_\_\_\_

Condition \_\_\_\_\_ Method : ASTM C29 or Calculation

Date Calibrated: \_\_\_\_\_ Next Due: \_\_\_\_\_ Calibrated by: \_\_\_\_\_

**UNIT WEIGHT BUCKET (ASTM C29) ID #** \_\_\_\_\_ [INITIAL CALIBRATION]

V = volume of measure [ft<sup>3</sup>]

W = mass water, glass, measure \_\_\_\_\_ [0.1 lb.]

M = mass glass/measure \_\_\_\_\_ [0.1 lb.]

D = density of water for measured temp. \_\_\_\_\_ [ 1°F, Table 3]

$$V = (W - M) / D$$

Volume: \_\_\_\_\_ Condition: \_\_\_\_\_

Date Calibrated: \_\_\_\_\_ Next Due: \_\_\_\_\_ Calibrated by: \_\_\_\_\_

**UNIT WEIGHT BUCKET (KM 64-324-06)**

[SUBSEQUENT CALIBRATION]

V = Volume [ft<sup>3</sup>]

D = Average bucket inside diameter [in. w/caliper]

H = Average inside height of bucket [in. w/caliper]

$$V = \frac{3.141593 (D^2) (H)}{6912}$$

Height 1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

Diameter (± 25% x Ht.) 1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

Volume: \_\_\_\_\_ Condition: \_\_\_\_\_

Date Calibrated: \_\_\_\_\_ Next Due: \_\_\_\_\_ Calibrated by: \_\_\_\_\_

**THERMOMETERS (KM 64-318)** ID# \_\_\_\_\_ MASTER ID# \_\_\_\_\_

Date checked: \_\_\_\_\_ Next Due: \_\_\_\_\_ Checked by: \_\_\_\_\_

Thermometers: shall be capable of accurately measuring ± 1° F [ ± 0.5° C] throughout a range 30° to 120° F [ 0 to 50° C] required

**Calibration of Measuring Devices:** compared readings at two temperatures at least 30° F [ 15° C] apart.

Number of adjustable dial thermometers calibrated: \_\_\_\_\_

Number of liquid in glass thermometers calibrated with or without correction factors: \_\_\_\_\_

**TAMPING ROD** (except for use on 4 x 8 cylinders)

--Length (20" ± 4") \_\_\_\_\_

--Diameter (5/8" ± 1/8") \_\_\_\_\_

--Tamping end rounded to a hemispherical tip? Yes \_\_\_\_\_ No \_\_\_\_\_

Condition: \_\_\_\_\_

**TAMPING ROD** (for use on 4 x 8 cylinders)

--Length (12" ± 4") \_\_\_\_\_

--Diameter (3/8" ± 1/8") \_\_\_\_\_

--Tamping end rounded to a hemispherical tip? Yes \_\_\_\_\_ No \_\_\_\_\_

Condition: \_\_\_\_\_

**MALLET**

--Rubber/Rawhide Head Yes \_\_\_\_\_ No \_\_\_\_\_

--Weight (1.25 ± 0.5 lb.) \_\_\_\_\_

Condition: \_\_\_\_\_

**STRIKE-OFF BAR**

--Length (min. 12") \_\_\_\_\_

--Width (min. 3/4") \_\_\_\_\_

--Thickness (min. 1/8") \_\_\_\_\_

Condition: \_\_\_\_\_

**STRIKE-OFF PLATE**

--Thickness (Min. 1/4" if metal 1/2" if acrylic or glass) Metal \_\_\_\_\_ Acrylic/glass \_\_\_\_\_ (check one)

1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_  
--Length/Width (min. 2" greater than the diameter of the measure of which it is to be used)

1) \_\_\_\_\_ 2) \_\_\_\_\_ Avg. \_\_\_\_\_

--Edges straight and smooth within tolerance of 1/16"? Yes \_\_\_\_\_ No: \_\_\_\_\_

Date checked: \_\_\_\_\_ Next Due: \_\_\_\_\_ Checked by: \_\_\_\_\_

**COMPRESSION MACHINE (ASTM C39) SN # \_\_\_\_\_**

Calibrate Annually

Date Calibrated: \_\_\_\_\_ Next Due: \_\_\_\_\_ Calibrated by: \_\_\_\_\_

**RETAINERS (ASTM C1231)**

Visual Inspection

Condition – Retainer 1 \_\_\_\_\_

Condition – Retainer 2 \_\_\_\_\_

Date Checked: \_\_\_\_\_ Checked by: \_\_\_\_\_

**PAD CAPS (ASTM C1231)**

Document Uses and Visually Inspect

Replace after 100 uses

**CYLINDER MOLDS**

Certification from Supplier that Molds Conform to ASTM C470 for each shipment

**CYLINDER TANK (KM 64-305-06)**

Bi-weekly temperature checks and attach to annual calibration records