

Kentucky Method 64-324-086

Revised 02/22/08

Supersedes KM 64-324-06

Dated 03/03/06

## UNIT WEIGHT OF CONCRETE

Perform tests in accordance with ASTM C138.

Perform calibrations in accordance with ASTM C29 with the following permitted as an alternate:

1. Perform the initial calibration in accordance with ASTM C29.
2. Perform subsequent calibrations using the following calculation:

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

V = Volume (ft<sup>3</sup>)

D = Average bucket inside diameter (in.)

H = Average inside height of bucket (in.)

NOTE: Two (2) measurements shall be taken for each dimension (90° apart) and averaged. Measurements shall be made with a caliper and recorded to three decimal places.

3. If the volume from calculation differs from the original calibration by .005 ft<sup>3</sup> or more use the calibration described in ASTM C29.
4. If the bucket is out of round, has gouges or build up of concrete, correct or replace the bucket. Perform a new calibration in accordance with ASTM C29.

APPROVED

\_\_\_\_\_  
DIRECTOR  
DIVISION OF MATERIALS

DATE

02/22/08

APPROVED

\_\_\_\_\_  
~~Director~~  
~~DIVISION OF MATERIALS~~

DATE

3/3/06

KM 64-324-085

Kentucky Method 64-324-0~~86~~  
Revised 02/22/08  
Supersedes KM 64-324-06  
Dated 03/03/06

km3240~~86~~.doc