SLUMP TEST

ASTM C 143: STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE ("MOLD" = SLUMP CONE)

1. Remix the concrete sample.
2. Dampen the mold and place it on the base.
3. Fill the container in three equal layers at approximately 2-5/8 in (67 mm) and 6-1/8 in (155 mm) from the base.
4. Rod each layer 25 times.
    a. For the first layer, slightly incline the rod and make approximately half the strokes near the perimeter;
    b. on successive layers, penetrate the previous layer slightly;
    c. on the third layer, keep concrete mounded above the top of the mold at all times.
5. Strike off the last layer with a screeding and rolling motion of the tamping rod.
6. Remove any spilled concrete from the base of the cone.
7. Raise the mold a distance of 12 in (300 mm) in 5 $\pm$ 2 seconds by a steady upward lift.
8. Complete entire test within 2-1/2 minutes.
9. Raise handle to the upright position.
10. Measure the difference in height of the bottom of the handle and the displaced original center of the top surface of the concrete.
11. Measure and report to the nearest ¼ in (6mm).
12. The test is not valid if there is a decided falling away or shearing off –Disregard test and make a new test on a another portion of the sample.

(These steps apply to concretes with maximum size aggregate up through 1-1/2")

***Always refer to ASTM for the latest changes or revisions in this procedure.**