# Procedure Checklist
# ASTM C 143 Slump of Hydraulic Cement Concrete

| Item | | P | F | N/A |
|---|---|---|---|---|
| 1. | Dampen the interior of the slump mold. | | | |
| 2. | Place the mold on a rigid, flat, level, moist, nonabsorbent surface, free of vibration, that is large enough to contain all of the slumped concrete. | | | |
| 3. | Hold the mold firmly in place by standing on the two foot pieces on either side of the mold. A base plate with clamps is also acceptable. | | | |
| 4. | Using a scoop, fill the mold in three layers moving the scoop around the perimeter of the mold opening to ensure an even distribution of the concrete. | | | |
| 5. | For the first layer: Fill the mold to approximately 1/3 of its volume (2-5/8 in. (70 mm)); Rod the layer 25 times throughout its depth with the rounded end of the tamping rod. Uniformly distribute the strokes over the cross section of the layer; Incline the rod slightly near the perimeter, and progress spirally toward the center. | | | |
| 6. | For the second layer: Fill the mold to approximately 2/3 of its volume, approximately 6-1/8 in. (160 mm)); Rod the layer 25 times with the rounded end of the tamping rod, penetrating through the second layer and approximately 1 in. (25 mm) into the first layer. Uniformly distribute the strokes over the cross section of the layer. | | | |
| 7. | For the third layer: Heap concrete above the top of the mold; Rod the layer 25 times with the rounded end of the tamping rod, penetrating through the third layer and approximately 1 in. (25 mm) into the second layer. Uniformly distribute the strokes over the cross section of the layer. Should rodding result in the concrete falling below the top of the mold, add concrete to keep an excess above the mold. Continue the rodding count from the value reached before concrete was added to the mold. | | | |
| 8. | Strike off the top surface of concrete with the tamping rod in a screeding and rolling motion. | | | |
| 9. | While maintaining downward pressure, remove any concrete which collected around the base of the mold during strike off. | | | |
| 10. | Immediately remove the mold by raising the mold in a steady, vertical direction. There should be no lateral or torsional motion of the mold while lifting. Lift the mold off the concrete, a distance of 12 in [300 mm], in 5 ± 2 s. | | | |
| 11. | Complete the slump test, from the start of filling the mold through the removal of the mold, in 2-1/2 minutes. | | | |
| 12. | If a decided falling away or shearing off of concrete from one side or portion of the mass occurs, disregard the test and make a new test on another portion of the sample. | | | |
| 13. | Immediately measure the slump. This is the vertical distance between the top of the mold and the displaced original center of the top surface of the specimen. | | | |
| 14. | Report the slump to the nearest 1/4 inch [5 mm]. | | | |

**Remarks:** **Comparison Criteria:**

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| **Slump Range 0 to 1.25":** | **Slump Height = ± 0.75" [20 mm]** |
| **Slump Range 1.50" to 3.50":** | **Slump Height = ± 1.00" [25 mm]** |
| **Slump Range 3.75" >:** | **Slump Height = ± 1.50" [40 mm]** |

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

Employer's/ Supervisor's E-mail Address: _____