

IA Checklist T 119 Slump of Hydraulic-Cement Concrete

Procedure		P	F	NA
1	Obtain a sample of freshly mixed concrete in accordance with R 60.			
2	Dampen the mold and the floor or base plate.			
3	Hold the mold firmly against the base by standing on the two foot pieces. Do not allow it to move in any way during filing.			
4	Fill mold in three approximately equal layers (by volume), the first to a depth of 2 3/4" [70 mm], the second to a depth of 6 1/2" [165 mm], and the third to just over the top of the mold.			
5	Rod each layer throughout its depth 25 times, distributing the strokes uniformly over the cross section of each layer.			
6	Rod the second and third layers to just penetrate into the underlying layer.			
7	When rodding the top layer, keep excess concrete above the mold at all times.			
8	Strike off concrete level with top of mold using the tamping rod.			
9	Remove concrete from the area surrounding base of the mold.			
10	Lift the mold upward 12" [300 mm] in one smooth motion, without twisting the mold, in 5 ± 2 seconds.			
11	Measure to the nearest 1/4" [5 mm] the slump from the top of mold to the displaced original center of the top surface of the specimen.			
12	Perform the test from start to finish within 2 1/2 minutes.			

Equipment		P	F	NA
Mold				
1	Mold is made of metal not readily attacked by the cement paste and is in the form of the lateral surface of the frustum of a cone.			
2	Mold has a base that is 8 ± 1/8" [200 ± 3 mm] in diameter.			
3	Mold has a top that is 4 ± 1/8" [100 ± 3 mm] in diameter.			
4	Mold has a height that is 12 ± 1/8" [300 ± 3 mm].			
5	Mold is constructed without a seam and has both foot pieces and handles.			
6	Interior of the mold is relatively smooth and free from projections and free from dents, deformations and adhered mortar.			
Tamping Rod				
7	Tamping rod is a round straight steel rod 5/8" [16 mm] in diameter and approximately 24" [600 mm] in length.			
8	Tamping rod has the tamping end rounded or both ends rounded to a hemispherical tip, the diameter of which is 5/8" [16 mm]			
Measuring Device				
9	Measuring device is a ruler, metal roll-up measuring tape or similar rigid length measuring instrument marked in increments of 1/4" [5 mm] or smaller.			
10	Length of measuring device is at least 12" [300 mm]			

Remarks: