

Procedure Checklist ASTM C 1610 Static Segregation of Self-Consolidating Concrete (SCC) Using Column Technique

		P	F	N/A
Item				
1.	Perform test on a flat, level work surface. Do not subject the work surface or column mold to vibration or disturbance.			
2.	Remix the sample obtained in accordance with ASTM C-192.			
3.	Dampen the interior of the mold, removing any standing water on the base plate within the column.			
4.	Fill the mold with SCC in accordance with ASTM C-1758. Completely fill the mold within 2 minutes.			
5.	After filling the mold, strike off the top surface by sliding the strike-off bar across the top rim of the mold with a sawing motion until the SCC surface is level with the top of the mold.			
6.	Allow the SCC to stand undisturbed in the mold for 15 ± 1 minute.			
7.	Immediately following the standing period, securely hold the top section of the mold and remove the fastening system.			
8.	Complete step 09 through step 21 within 20 minutes.			
9.	Place the cutout section of the collector plate around the column just below the joint between the "Top" and "Middle" sections to catch and collect the SCC.			
10.	Grasp the upper section of the mold and, using a horizontal rotating motion, screed the SCC in the top section of the column on to the collector plate and then deposit it into a plastic pail.			
11.	Securely hold the middle section of the mold and remove the fastening system.			
12.	Place the cutout section of the collector plate around the column just below the joint between the "Middle" and "Bottom" sections to catch and collect the SCC.			
13.	Grasp the middle section of the mold and, using a horizontal rotating motion, screed the SCC in the middle section of the column on to the collector plate and then discard this SCC.			
14.	Place the SCC sample collected from the upper section of the mold onto the 4.75 mm (No. 4) sieve.			
15.	Wash the SCC on the 4.75 mm (No. 4) sieve so that only coarse aggregate remains on the sieve.			
16.	Deposit the coarse aggregate into a clean plastic pail.			
17.	Place the SCC sample retained from the bottom section of the mold onto the 4.75 mm (No. 4) sieve.			
18.	Wash the SCC on the 4.75 mm (No. 4) sieve so that only coarse aggregate remains on the sieve.			
19.	Deposit the coarse aggregate into a clean plastic pail. Separate from the top section.			
20.	Bring the coarse aggregate obtained from the top and bottom sections of the mold to a surface dry condition.			
21.	Determine the mass of the coarse aggregate in the top and bottom section of the mold to the nearest 50g (0.11lb)			
22.	Calculate the percent static segregation, and report to the nearest 0.1 percent.			

Remarks: Comparison Criteria: N/A

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

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