

Procedure Checklist ASTM C 1621 Passing Ability of Self-Consolidating Concrete (SCC) by J-Ring

		P	F	N/A
Item				
1.	Perform test on a flat, level, nonabsorbent work surface. Do not subject the work surface or column mold to vibration or disturbance.			
2.	Dampen the work surface, removing any standing water.			
3.	Place J-Ring at the center of the work surface			
4.	Remix the sample obtained in accordance with ASTM C-172.			
5.	Dampen the interior of the mold and place it centered on the work surface in either the upright or inverted mold position.			
6.	Fill the mold with SCC in accordance with ASTM C-1758.			
7.	Strike off the surface of the concrete level with the top of the mold by a sawing motion of the strike-off bar. Remove concrete from the area surrounding the base of the mold.			
8.	Remove the mold from the concrete by raising it vertically. Raise the mold a distance of 9 ± 3 inches (225 ± 75 mm) in 3 ± 1 seconds by a steady upward lift with no lateral or torsional motion.			
9.	Complete the entire test from the start of filling through removal of the mold without interruption within an elapsed time of $2 \frac{1}{2}$ minutes.			
10.	Wait for the concrete to stop flowing and then measure the largest diameter (j_1) of the resulting circular spread of concrete to the nearest $\frac{1}{4}$ inch (5 mm).			
11.	Measure a second diameter (j_2) of the circular spread at an angle approximately perpendicular to the first measured diameter (j_1) to the nearest $\frac{1}{4}$ inch (5 mm).			
12.	When a halo is observed in the resulting circular spread of concrete, it shall be included as part of the diameter of the concrete.			
13.	The test is invalid if the two measurements differs by more than 2 inches (50 mm) and the test must be repeated.			
14.	Conduct a slump flow test without the J-Ring in accordance with ASTM C-1611.			
15.	Complete both slump flow and J-Ring flow within 6 minutes.			
16.	Calculate the passing ability to the nearest $\frac{1}{2}$ inch (10 mm).			
17.	Identify the blocking assessment.			

Remarks: Comparison Criteria: N/A

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

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