

## Procedure Checklist

### ASTM C 1712 Rapid Assessment of Static Segregation Resistance of Self-Consolidating Concrete (SCC) Using Penetration Test

		P	F	N/A
<b>Item</b>				
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 hollow cylinder.			
3.	Hold apparatus in the horizontal position and release the set screw.			
4.	Spin the penetration head to ensure no obstructions are between rod and inner sleeve.			
5.	Tighten the set screw to hold rod in the sleeve.			
6.	Remix the sample obtained in accordance with ASTM C-172.			
7.	Dampen the interior of the mold and place it centered on the work surface in the inverted mold position.			
8.	Fill the mold with SCC in accordance with ASTM C-1758.			
9.	Strike off the surface of the concrete with the strike-off bar.			
10.	Allow the SCC to stabilize for $80 \pm 5$ seconds. Perform steps 11 through 14 during stabilization period.			
11.	Place the penetration apparatus on the top of the inverted slump mold with the hollow cylinder in the center of the mold.			
12.	Hold metal rod and release the set screw.			
13.	Lower hollow cylinder carefully to just touch the surface of the concrete.			
14.	Tighten screw and take initial reading ( $d_1$ ) on the reading scale at the mark that is in line with the top of the metal rod.			
15.	After stabilization period, release the set screw to allow the hollow cylinder to penetrate the SCC.			
16.	Take final reading ( $d_2$ ) after wait time of $30 \pm 2$ seconds on the reading scale at the mark that is in line with the top of the metal rod.			
17.	Calculate penetration depth to the nearest 1 mm.			
18.	Report penetration depth to the nearest 1 mm.			

**Remarks:**            **Comparison Criteria:**            **2 mm**

Date: \_\_\_\_\_ Technician: \_\_\_\_\_ IA Observer: \_\_\_\_\_

Technician's E-mail Address: \_\_\_\_\_

Employer's/ Supervisor's E-mail Address: \_\_\_\_\_