

Equipment Checklist

ASTM C 1610 Static Segregation of Self-Consolidating Concrete Using Column Technique

| | | P | F | N/A |
|-------------|---|---|---|-----|
| Item | | | | |
| 1. | Balance – Conforming to the requirements of ASTM C-127. | | | |
| 2. | Column Mold – The column portion shall be PVC schedule 40 meeting the requirements of ASTM D-1785. The column dimensions shall be 8 inches (200 mm) nominal inside diameter x 26 inches (660 mm) in height and separated into three sections. | | | |
| 3. | The top section shall be 6.5 inches (165 mm) in height. | | | |
| 4. | The middle section shall be 13 inches (330 mm) in height. | | | |
| 5. | The bottom section shall be 6.5 inches (165 mm) in height. | | | |
| 6. | Each section shall have its ends flat and plane and be marked as “Top”, “Middle”, or “Bottom” relative to its location in the column. | | | |
| 7. | Couplers, brackets, clamps, or other equivalent fastening systems shall be used for securing the column sections together to form a mortar-tight joint and to secure the column to the base plate. | | | |
| 8. | The column mold shall be securely attached to a non-absorbent, rigid base plate measuring at least 12 inches (300 mm) by 12 inches (300 mm) square. | | | |
| 9. | Collector Plate —The collector plate, used to obtain SCC from the top section of the column, shall be made of any nonabsorbent, rigid material measuring at least 20 inches (510 mm) by 20 inches (510 mm) square. The plate shall contain a cutout section in the center measuring 8.7 inches (220 mm) across and it shall contain a rigid lip that is at least 2 inches (50 mm) high running around three sides of the perimeter of the plate. | | | |
| 10. | Strike-off Bar – Conforming to the requirements of ASTM C-173 or ASTM C-231. | | | |
| 11. | Sieve – A No. 4 (4.75 mm) rectangular sieve with minimum dimensions of 13 inches (330 mm) by 25 inches (630 mm). | | | |
| 12. | Sample Receptacle – A pan or wheelbarrow that is water-tight, has a nonabsorbent surface, and is large enough to allow both remixing of the entire sample and retain a volume of SCC sufficient to fill the column mold. | | | |
| 13. | Other Tools – Items such as shovels and scoops capable of remixing the SCC in the sample receptacle, filling the pouring vessel, or both. | | | |

Remarks:

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

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