



Self-consolidating Concrete Mixture Pre-Qualification & Quality Control Products

New

The use of self-consolidating or self-compacting concrete (SCC) has increased in the concrete industry for several good reasons. SCC additives are ideal for casting concrete in heavily reinforced sections, complex shapes, and frames with limited access for vibrators for compaction. In order to ensure standard testing for these new mixtures the construction industry and ASTM have implemented several new tests to ensure the performance and quality of SCC concrete.

Self-consolidating Concrete Mixture Pre-Qualification & Quality Control Products

Mixture Pre-qualification and Quality Control procedures have been determined to ensure adequate performance of proposed mixtures and production batches. ELE International, your partner in construction materials testing equipment, offers high quality products to help you with all your testing requirements for SCC mixtures to ensure full compliance with testing standards such as ASTM C1610/C1610M, C1611/C1611M, ASTM C1621/C1621M, and ASTM C1712.

ASTM C1610/C1610M & ASTM C1712 – Segregation Resistance

This test is used to determine the potential static segregation of self-consolidating concrete mixtures.

- **EI 34-0630** **Static Segregation using the Penetration Test ASTM C1712. Includes: Penetration Apparatus with a support frame, metal sleeve with set screw, penetration head, and a stainless steel scale.**
- **EI 36-0640** **Static Segregation Column Mold; includes three part column molds in Schedule 40 PVC, base, and two stainless steel collection plates..**

ASTM C1611/1611M – Slump Flow

Slump Flow is used to monitor the consistency of fresh, unhardened self-consolidating concrete. This test uses a standard Slump Cone meeting the requirements of ASTM C143/C143M, a strike off bar meeting the requirements of ASTM 173/C173M, a base plate, and a ruler.

- **EI 34-0180** **Slump Cone**
- **EI 3432-0012** **Strike-off bar**
- **EI 34-0620** **J-Ring Base**

ASTM C1621/C1621M – Passing Ability J-Ring

This test has been designed to determine the passing ability (flow-ability) of SCC concrete. Our test set includes a J-Ring fabricated in Zinc Plated steel for rust resistance and a Base Plate made in stainless steel for durability. The base plate includes a return bend lip for easy carrying and includes three concentric circles etched on the base plate to center the ring.

- **EI 34-0610** **J-Ring**
- **EI 34-0620** **J-Ring Base**
- **EI 34-0180** **Slump Cone**
- **EI 3432-0012** **Strike-off bar**



ASTM C1610/C1610M & ASTM C1712
– Segregation Resistance



ASTM C1611/1611M
– Slump Flow



ASTM C1621/C1621M
– Passing Ability J-Ring