
Standard Method of Test for Slump Flow of Self-Consolidating Concrete (SCC)

AASHTO Designation: T 347-13 (2021)¹

Technically Revised: 2013

Reviewed but Not Updated: 2021

Editorially Revised: 2021

Technical Subcommittee: 3b, Fresh Concrete



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1. SCOPE

- 1.1. This test method covers determination of slump flow of self-consolidating concrete (SCC), both in the laboratory and in the field. SCC is defined as a highly workable concrete that can flow through densely reinforced or complex structural elements under its own weight without vibration and adequately fill voids without experiencing segregation or excessive bleeding.
- 1.2. The values stated in either SI units or inch-pound units are to be regarded separately as standard. Within the text, the inch-pound units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with this standard.
- 1.3. *This standard does not purport to address all of the safety concerns associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*
- 1.4. *The quality of the results produced by this standard are dependent on the competence of the personnel performing the procedure and the capability, calibration, and maintenance of the equipment used. Agencies that meet the criteria of R 18 are generally considered capable of competent and objective testing/sampling/inspection/etc. Users of this standard are cautioned that compliance with R 18 alone does not completely assure reliable results. Reliable results depend on many factors; following the suggestions of R 18 or some similar acceptable guideline provides a means of evaluating and controlling some of those factors.*
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2. REFERENCED DOCUMENTS

- 2.1. AASHTO Standards:
- R 18, Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
 - R 60, Sampling Freshly Mixed Concrete
 - T 119M/T 119, Slump of Hydraulic Cement Concrete
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3. SUMMARY OF TEST METHOD

- 3.1. A sample of freshly mixed SCC is placed in an inverted mold shaped as the frustum of a cone. The mold is raised, allowing the SCC to spread radially. After flow has ceased, the diameter of the