
Standard Practice for Sampling Freshly Mixed Concrete

AASHTO Designation: R 60M/R 60-23¹

Technically Revised: 2023

Editorially Revised: 2023

Technical Subcommittee: 3b, Fresh Concrete

ASTM Designation: C172/C172M-17

**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This method covers the procedures for obtaining representative samples of fresh concrete as delivered to the project site and on which tests are to be performed to determine compliance with quality requirements of the specifications under which the concrete is furnished (Note 1). The method includes sampling from stationary, paving, and truck mixers, and from agitating and nonagitating equipment used to transport central mixed concrete and from continuous mixing equipment as described in M 241M/M 241.
- 1.2. The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.
- Note 1**—Composite samples are required by this method, unless specifically excepted by procedures governing the tests to be performed, such as tests to determine uniformity of consistency and mixer efficiency. Procedures used to select the specific test batches are not described in this method, but it is recommended that random sampling be used to determine overall specification compliance.
- 1.3. This practice also covers the procedures to be used for preparing a sample of concrete for further testing where it is desirable or necessary to remove the aggregate larger than a designated size. This removal of larger aggregate particles is preferably accomplished by wet-sieving.
- 1.4. The text of this standard references notes and footnotes that provide explanatory material and shall not be considered as requirements of the practice.
- 1.5. *This standard does not purport to address of all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*
- Warning**—Fresh hydraulic cementitious mixtures are caustic and may cause chemical burns to skin and tissue upon prolonged exposure.

2. REFERENCED DOCUMENT

- 2.1. *AASHTO Standard:*
- M 241M/M 241, Concrete Made by Volumetric Batching and Continuous Mixing
- 2.2. *ASTM Standards:*