

COMMITTEE C09 AND THE AMERICAN CONCRETE INSTITUTE

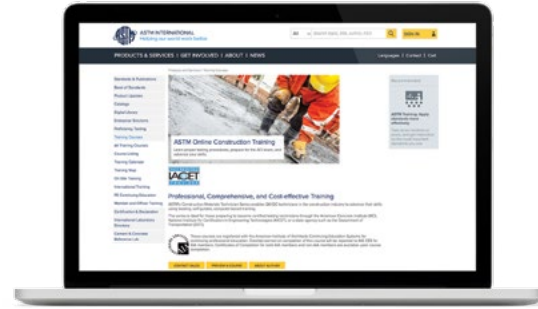
There has been a longstanding agreement of cooperation between ASTM International and the American Concrete Institute (ACI) in the preparation of standards. This agreement states that, in general, standards concerned with matters of engineering design or construction shall be the responsibility of ACI. ASTM International has responsibility for the development of test methods for concrete and concrete products and for the constituent materials of concrete, as well as certain related materials such as those used in curing.

RELATIONSHIP WITH INDUSTRY, GOVERNMENT AND REGULATION

Committee C09 continues to make significant changes to its standards to encompass new materials and to improve the capabilities of concrete as a basic construction material. The standards developed and maintained by C09 contribute to industry by providing recognized safety and reliability measurements, protecting against liability through their use in contracts, providing a means of quality control, contributing to the proficiency of laboratories, and providing a basis for training and certification of qualified personnel.

CCRL AND CONSTRUCTION MATERIALS TESTING

ASTM Committees C01 and C09 oversee the activities of the Cement and Concrete Reference Laboratory (CCRL). CCRL operates proficiency sample programs in the following construction materials areas: portland cement, blended cement, masonry cement, hydraulic cement concrete, pozzolans, concrete masonry units, and masonry mortar.



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ASTM's Construction Materials Technician Series enables QA/QC technicians in the construction industry to advance their skills using leading, self-guided, computer-based training.

The series is ideal for those preparing to become certified testing technicians through the American Concrete Institute (ACI), National Institute for Certification in Engineering Technologies (NICET), or a state agency such as the Department of Transportation (DOT).

These courses are registered with the American Institute of Architects Continuing Education Systems for continuing professional education. Credit(s) earned on completion of this course will be reported to AIA CES for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon course completion.

<http://www.astm.org/TRAIN/concrete-testing-training-homepage.html>

CONTACT SALES Call 1-877-909-ASTM

ASTM Online Centers

ASTM International, in cooperation with several separate national concrete trade associations, is making ASTM standards more accessible to individual users in Latin America. Each trade association provides instantaneous electronic access to published ASTM standards (historical and redline), research reports and the Digital Library content through an Online Center. There are currently Online Centers in Colombia, Costa Rica, Ecuador, and Mexico.

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Over 12,000 ASTM standards operate globally. Defined and set by us, they improve the lives of millions every day.

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Working across borders, disciplines, and industries we harness the expertise of over 30,000 members to create consensus and improve performance in manufacturing and materials, products and processes, systems and services.

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Committee C09 Concrete and Concrete Aggregates

www.astm.org/COMMITTEE/C09

The standards of Committee C09 on Concrete and Concrete Aggregates, together with the standards developed by ASTM Committee C01 on Cement and committees of the American Concrete Institute (ACI), are essential to the construction of civil infrastructure. Formed in 1914, Committee C09 includes approximately 1,400 members who have jurisdiction over more than 180 standards published in Volume 04.02 of the *Annual Book of ASTM Standards*.

Committee C09 has 37 technical subcommittees that maintain its standards. The subcommittees are divided into four groups: concrete materials, concrete systems, concrete testing and administration.



A SAMPLING OF COMMITTEE C09'S MORE THAN 180 STANDARDS

Organic Materials for Bonding

- **C1583** Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)

Chemical Reactions

- **C1567** Standard Test Method for Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)

Ready-Mixed Concrete

- **C1602** Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete
- **C1603** Standard Test Method for Measurement of Solids in Water

Shotcrete

- **C1604** Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete
- **C1621** Standard Test Method for Passing Ability of Self-Consolidating Concrete by J-Ring
- **C1712** Standard Test Method for Rapid Assessment of Static Segregation Resistance of Self-Consolidating Concrete Using Penetration Test

Self-Consolidating Concrete

- **C1611** Standard Test Method for Slump Flow of Self-Consolidating Concrete

Cementitious Materials and Admixture Combinations

- **C1679** Standard Practice for Measuring Hydration Kinetics of Hydraulic Cementitious Mixtures Using Isothermal Calorimetry

Concrete's Resistance to Fluid Penetration

- **C1585** Standard Test Method for Measurement of Rate of Absorption of Water by Hydraulic-Cement Concretes

Volume Change

- **C1698** Standard Test Method for Autogenous Strain of Cement Paste and Mortar

Pervious Concrete

- **C1688** Standard Test Method for Density and Void Content of Freshly Mixed Pervious Concrete
- **C1701** Standard Test Method for Infiltration Rate of In-Place Pervious Concrete

Strength Testing

- **C31/C31M** Standard Practice for Making and Curing Concrete Test Specimens in the Field
- **C39/C39M** Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens

Supplementary Cementitious Materials

- **C1697** Standard Specification for Blended Supplementary Cementitious Materials

C09 SUBCOMMITTEES

- **C09.20** Normal Weight Aggregates
- **C09.21** Lightweight Aggregates and Concrete
- **C09.22** Materials Applied to New Concrete Surfaces
- **C09.23** Chemical Admixtures
- **C09.24** Supplementary Cementitious Materials
- **C09.25** Organic Materials for Bonding
- **C09.26** Chemical Reactions
- **C09.27** Ground Slag
- **C09.40** Ready-Mixed Concrete
- **C09.41** Hydraulic Cement Grouts
- **C09.42** Fiber-Reinforced Concrete
- **C09.43** Packaged Dry Combined Materials
- **C09.44** Polymer-Modified Concrete and Mortars
- **C09.45** Roller-Compacted Concrete
- **C09.46** Shotcrete
- **C09.47** Self-Consolidating Concrete
- **C09.48** Performance of Cementitious Materials and Admixture Combinations
- **C09.49** Pervious Concrete
- **C09.50** Risk Management for Alkali Aggregate Reactions
- **C09.60** Testing Fresh Concrete
- **C09.61** Testing for Strength
- **C09.62** Abrasion Testing
- **C09.64** Nondestructive and In-Place Testing
- **C09.65** Petrography
- **C09.66** Concrete's Resistance to Fluid Penetration
- **C09.67** Resistance to the Environment
- **C09.68** Volume Change
- **C09.69** Miscellaneous Tests

MEETINGS

Committee C09 meets twice a year, in June and December, with approximately 150 members attending four days of technical meetings. The committee holds a new member orientation at both meetings. It provides new members with an overview of the committee and gives them the opportunity to meet with C09 officers.

MEMBERSHIP

ASTM welcomes all technical experts with a desire to work toward further development of international technical standards. Membership and participation in the activities of Committee C09 provide the opportunity to:

- Network with technical professionals worldwide;
- Have direct input into the development of new and revised standards;
- Participate in informational webinars;
- Receive a free volume of the *Annual Book of ASTM Standards* (print, CD, or virtual volume);
- Enjoy discounts on all ASTM publications;
- Receive free subscriptions to *ASTM Standardization News* and *ASTM eNews*; and
- Benefit from reduced attendance fees at ASTM symposia and technical workshops.

The annual fee to be an informational or participating member of ASTM International is \$75 USD. Annual membership provides access to multiple technical committees at no additional cost.

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ENVIRONMENTAL PRODUCT DECLARATIONS PUBLISHED PRODUCT CATEGORY RULES

Product category rules are defined in ISO 14025 as a set of specific rules, requirements, and guidelines, for developing environmental declarations for one or more products that can fulfill equivalent functions. PCR determine what information should be gathered and how that information should be evaluated for an environmental declaration.

ASTM International has published the following PCRs:

- PCR for Asphalt Shingles, Built-up Asphalt Membrane Roofing and Modified Bituminous Membrane Roofing
- PCR for Expanded Shale, Clay, and Slate Lightweight Aggregate
- PCR for Manufactured Concrete and Concrete Masonry Products
- PCR for Portland, Blended Hydraulic, Masonry, Mortar, and Plastic Stucco Cements
- PCR for Precast Concrete
- PCR for Segmental Concrete Paving Products
- PCR for Slag Cement

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