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.

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.

Committee C09 and the Cement and Concrete Reference Laboratory (CCRL) oversees the activities of the Cement and Concrete Reference Laboratory (CCRL), which is located at the National Institute of Standards and Technology (NIST) as a cooperative program between ASTM and NIST. 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 mortars.

ASTM International

ASTM International is one of the largest standards development and delivery systems in the world. ASTM standards are voluntary consensus documents that guide research, design, manufacturing, marketing, and trade. For more than a century, ASTM has met the technical needs of commerce by providing standards that are accepted and used around the world.

ASTM’s market relevance is evident in more than 100 industrial and management sectors, ranging from construction materials and environmental assessment to medical devices and consumer products. More than 30,000 individuals from 150 countries participate in standards development as members of ASTM International. Membership is open to all who have an interest in the standards affecting business and industry.

Committee C09 on Concrete and Concrete Aggregates

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 1200 members who have jurisdiction over more than 160 standards published in Volume 04.02 of the Annual Book of ASTM Standards. Committee C09 has 38 technical subcommittees that maintain its standards. The subcommittees are divided into four groups: concrete materials, concrete systems, concrete testing and administration.

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C09 Standards
A sampling of Committee C09’s more than 160 standards:

Organic Materials for Bonding
C1563 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

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

Fiber-Reinforced Concrete
C1579 Standard Test Method for Evaluating Plastic Shrinkage Cracking of Restrained Fiber Reinforced Concrete (Using a Steel Form Insert)
C1609 Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)

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

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

Cementitious Materials and Admixture Combinations

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

Supplementary Cemenitious Materials
C1697 Standard Specification for Blended Supplementary Cemenitious Materials

ASTM International standards are available in hard copy, CD and virtual volume format. Standards are available for purchase online at www.astm.org, at ASTM Online Centers in Latin America, or by contacting ASTM Customer Service (sales@astm.org; phone: 887-909-ASTM).

Join ASTM’s NEW Subcommittee C01.98 on Sustainability Assessment

While standards developed by C01.98 will be under the jurisdiction C01, members of C09 are being asked to participate since they promulgate standards that are impacted by the sustainability assessment activity. The scope of C01.98 is to support the development and maintenance of standards related to methodologies and metrics for assessing sustainability in the manufacture and use of hydraulic cement. The new subcommittee will coordinate its activities with Committee C09, in addition to providing liaison with ASTM Committee E60 on Sustainability.

ASTM International opens its doors to all technical experts with an interest in the standardization process. As a member of ASTM Committee C09, you will be exposed to several resources and member benefits that have helped make ASTM a worldwide standards development leader. Members of ASTM and Committee C09 have the opportunity to:
- Network with industry professionals worldwide;
- Receive one free volume of the Annual Book of ASTM Standards in print, CD or online;
- Receive discounts on all ASTM publications;
- Use ASTM’s custom Web collaboration areas and online tools;
- Stay informed with a free subscription to ASTM’s bimonthly magazine, Standardization News, and the monthly e-News; and
- Attend Committee C09 symposia and technical workshops at no charge.

Meetings and New Member Orientation
Committee C09 meets twice a year, in June and December. Approximately 150 members attend four days of technical meetings. The committee holds new member orientation at each of the biannual meetings. The orientation provides new members with an overview of the committee and gives them the opportunity to meet with C09 officers.

The annual fee to be an informational or participating member of ASTM International is $75. To join, please visit the Membership section of the ASTM website (www.astm.org/JOIN).