



This post highlights recent changes to ASTM Standards affecting geotechnical engineers, materials testing engineers, soil and construction laboratory managers and related professionals. Updates for February include: a new standard for geospatial data at coal mines; standards related to pervious concrete; an updated standard for volumetric concrete batching; and an update to D5778 - Standard Test Method for Electronic Friction Cone and Piezocone Penetration Testing of Soils; among others. Click through for the list.

New Standards

- [C1747/C1747M - Standard Test Method for Determining Potential Resistance to Degradation of Pervious Concrete by Impact and Abrasion](#) is a new standard, now available. C1747/C1747M-11
- [C1760 - Standard Test Method for Bulk Electrical Conductivity of Hardened Concrete](#) is a new standard, now available. C1760-12
- [D7780 - Standard Practice for Geospatial Data for Representing Coal Mining Features](#) is a new standard, now available. D7780-12

Revised Standards

- [C90 - Standard Specification for Loadbearing Concrete Masonry Units](#) has been revised to C90-11b
- [C125 - Standard Terminology Relating to Concrete and Concrete Aggregates](#) has been revised to C125-11b
- [C140 - Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units](#) has been revised to C140-12
- [C387/C387M - Standard Specification for Packaged, Dry, Combined Materials for Concrete and High Strength Mortar](#) has been revised (with title change) to C387/C387M-11b
- [C567/C567M - Standard Test Method for Determining Density of Structural Lightweight Concrete](#) has been revised (with title change) to C567/C567M-11
- [C685/C685M - Standard Specification for Concrete Made by Volumetric Batching and Continuous Mixing](#) has been revised to C685/C685M-11
- [C857 - Standard Practice for Minimum Structural Design Loading for Underground Precast Concrete Utility Structures](#) has been revised to C857-12a
- [C989/C989M - Standard Specification for Slag Cement for Use in Concrete and Mortars](#) has been revised (with designation change) to C989/C989M-11

Written by Randy Post
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- [C1242 - Standard Guide for Selection, Design, and Installation of Dimension Stone Attachment Systems](#) has been revised to C1242-12
- [C1528 - Standard Guide for Selection of Dimension Stone](#) has been revised to C1528-12
- [C1556 - Standard Test Method for Determining the Apparent Chloride Diffusion Coefficient of Cementitious Mixtures by Bulk Diffusion](#) has been revised to C1556-11a
- [C1688/C1688M - Standard Test Method for Density and Void Content of Freshly Mixed Pervious Concrete](#) has been revised to C1688/C1688M-11
- [C1741 - Standard Test Method for Bleed Stability of Cementitious Post-Tensioning Tendon Grout](#) has been revised to C1741-11a
- [D4223/D4223M - Standard Practice for Preparation of Test Specimens of Asphalt-Stabilized Soils](#) has been revised (with designation change) to D4223/D4223M-12
- [D5778 - Standard Test Method for Electronic Friction Cone and Piezocone Penetration Testing of Soils](#) has been revised to D5778-12
- [E1316 - Standard Terminology for Nondestructive Examinations](#) has been revised to E1316-11b

Reapproved Standards

- [C428/C428M - Standard Specification for Asbestos-Cement Nonpressure Sewer Pipe](#) has been reapproved (with editorial change), available as C428/C428M-05(2011)e1
- [C458/C458M - Standard Test Method for Organic Fiber Content of Asbestos-Cement Products](#) has been reapproved (with editorial change), available as C458/C458M-98(2011)e1
- [C459/C459M - Standard Test Methods for Asbestos-Cement Flat Products](#) has been reapproved (with editorial change), available as C459/C459M-97(2011)e1
- [C500/C500M - Standard Test Methods for Asbestos-Cement Pipe](#) has been reapproved (with editorial change), available as C500/C500M-07(2011)e1
- [C551/C551M - Standard Specification for Asbestos-Cement Fiberboard Insulating Panels](#) has been reapproved (with editorial change), available as C551/C551M-07(2011)e1
- [D2589/D2589M - Standard Test Method for McNett Wet Classification of Dual Asbestos Fiber](#) has been reapproved (with editorial change), available as D2589/D2589M-88(2011)e1
- [D2590/D2590M - Standard Test Method for Sampling Chrysotile Asbestos](#) has been reapproved (with editorial change), available as D2590/D2590M-98(2011)e1
- [D2752/D2752M - Standard Test Methods for Air Permeability of Asbestos Fibers](#) has been reapproved (with editorial change), available as D2752/D2752M-88(2011)e1
- [D2947/D2947M - Standard Test Method for Screen Analysis of Asbestos Fibers](#) has

been reapproved (with editorial change), available as D2947/D2947M-88(2011)e1

- [D2985/D2985M - Standard Test Method for Color of Asbestos](#) has been reapproved (with editorial change), available as D2985/D2985M-92(2011)e1
- [D2987/D2987M - Standard Test Method for Moisture Content of Asbestos Fiber](#) has been reapproved (with editorial change), available as D2987/D2987M-88(2011)e1
- [D3639/D3639M - Standard Test Method for Classification of Asbestos by Quebec Standard Test](#) has been reapproved (with editorial change), available as D3639/D3639M-92(2011)e1
- [D3752 - Standard Test Method for Strength Imparted by Asbestos to a Cementitious Matrix](#) has been reapproved, available as D3752-98(2011)

Other Changes to Standards

- [C541/C541M - Standard Specification for Linings for Asbestos-Cement Pipe](#) has been editorially changed, available as C541/C541M-98(2011)e1
- [C1120/C1120M - Standard Test Method for Wash Test of Asbestos](#) has been editorially changed, available as C1120/C1120M-98(2011)e1
- [D513 - Standard Test Methods for Total and Dissolved Carbon Dioxide in Water](#) has been editorially changed, available as D513-11e1
- [D7598 - Standard Test Method for Determination of Thiodiglycol in Water by Single Reaction Monitoring Liquid Chromatography/Tandem Mass Spectrometry](#) has been editorially changed, available as D7598-09e1
- [D7600 - Standard Test Method for Determination of Aldicarb, Carbofuran, Oxamyl and Methomyl by Liquid Chromatography/Tandem Mass Spectrometry](#) has been editorially changed, available as D7600-09e1
- [D7644 - Standard Test Method for Determination of Bromadiolone, Brodifacoum, Diphacinone and Warfarin in Water by Liquid Chromatography/Tandem Mass Spectrometry \(LC/MS/MS\)](#) has been editorially changed, available as D7644-10e2
- [D7645 - Standard Test Method for Determination of Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Carbofuran, Methomyl, Oxamyl and Thiofanox in Water by Liquid Chromatography/Tandem Mass Spectrometry \(LC/MS/MS\)](#) has been editorially changed, available as D7645-10e1
- [D7741/D7741M - Standard Test Method for Measurement of Apparent Viscosity of Asphalt-Rubber or Other Asphalt Binders by Using a Rotational Hand Held Viscometer](#) has been editorially changed, available as D7741/D7741M-11e1

GeoPrac and ASTM Standards Updates

[ASTM standards](#) are an important part of my geotechnical engineering practice, and keeping up with changes can be a challenging thing. Their website offers an [ASTM standards tracker service](#) that will email you a weekly update on new, revised or otherwise modified standards for your areas of interest. I try to sift through these weekly updates and provide a monthly update to GeoPrac readers that contains changes to standards (no work items) that may be of interest to them in their practice. I look at updates from the following ASTM committees:

- [C01 - Cement](#)
- [C07 - Lime](#)
- [C09 - Concrete and Concrete Aggregates](#)
- [C15 - Manufactured Masonry Units](#)
- [C17 - Fiber-Reinforced Cement Products](#)
- [C18 - Dimension Stone](#)
- [C27 - Precast Concrete Products](#)
- [D04 - Road and Paving Materials](#)
- [D18 - Soil and Rock](#)
- [D19 - Water](#)
- [D35 - Geosynthetics](#)
- [E07 - Nondestructive Testing](#)
- [E27 - Hazard Potential of Chemicals](#)
- [E44 - Solar, Geothermal and Other Alternative Energy Sources](#)
- [G01 - Corrosion of Metals](#)