



Happy New Year! Here are a list of updated and new ASTM standards related to geotechnical engineering, materials testing and other subjects of interest to geoprofessionals. In this batch is a new standard for testing individual geogrid junction strength and other updated standards for geogrid testing. The standard for geofoam has been updated, so has the standard for SPT sampling. Read on for a list of these updated standards and others.

### New Standards

- [C1722 - Standard Guide for Repair and Restoration of Dimension Stone](#) is a new standard, now available. C1722-11
- [D7737 - Standard Test Method for Individual Geogrid Junction Strength](#) is a new standard, now available. D7737-11
- [E2848 - Standard Test Method for Reporting Photovoltaic Non-Concentrator System Performance](#) is a new standard, now available. E2848-11

### Revised Standards

- [C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens](#) has been revised to C39/C39M-11a
- [C139 - Standard Specification for Concrete Masonry Units for Construction of Catch Basins and Manholes](#) has been revised to C139-11
- [C387/C387M - Standard Specification for Packaged, Dry, Combined Materials for Mortar and Concrete](#) has been revised to C387/C387M-11a
- [C441/C441M - Standard Test Method for Effectiveness of Pozzolans or Ground Blast-Furnace Slag in Preventing Excessive Expansion of Concrete Due to the Alkali-Silica Reaction](#) has been revised (with designation change) to C441/C441M-11
- [C586 - Standard Test Method for Potential Alkali Reactivity of Carbonate Rocks as Concrete Aggregates \(Rock-Cylinder Method\)](#) has been revised to C586-11
- [D653 - Standard Terminology Relating to Soil, Rock, and Contained Fluids](#) has been revised to D653-11
  
- [D1073 - Standard Specification for Fine Aggregate for Bituminous Paving Mixtures](#) has been revised to D1073-11
  
- [D1461 - Standard Test Method for Moisture or Volatile Distillates in Bituminous Paving Mixtures](#) has been revised to D1461-11
- [D1586 - Standard Test Method for Standard Penetration Test \(SPT\) and Split-Barrel Sampling of Soils](#) has been revised to D1586-11
- [D2726 - Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive](#)

- [Compacted Bituminous Mixtures](#) has been revised to D2726-11
- [D2950/D2950M - Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods](#) has been revised to D2950/D2950M-11
  - [D3203/D3203M - Standard Test Method for Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures](#) has been revised (with designation change) to D3203/D3203M-11
  - [D3454 - Standard Test Method for Radium-226 in Water](#) has been revised to D3454-11
  - [D3549/D3549M - Standard Test Method for Thickness or Height of Compacted Bituminous Paving Mixture Specimens](#) has been revised (with designation change) to D3549/D3549M-11
  - [D3666 - Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials](#) has been revised to D3666-11
  - [D3744/D3744M - Standard Test Method for Aggregate Durability Index](#) has been revised to D3744/D3744M-11a
  - [D3856 - Standard Guide for Management Systems in Laboratories Engaged in Analysis of Water](#) has been revised (with title change) to D3856-11
  - [D4439 - Standard Terminology for Geosynthetics](#) has been revised to D4439-11
  - [D4469 - Standard Practice for Calculating Percent Asphalt Absorption by the Aggregate in an Asphalt Pavement Mixture](#) has been revised to D4469-11
  - [D4561 - Standard Practice for Quality Control Systems for Organizations Producing and Applying Bituminous Paving Materials](#) has been revised to D4561-11
  - [D4595 - Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method](#) has been revised to D4595-11
  - [D4829 - Standard Test Method for Expansion Index of Soils](#) has been revised to D4829-11
  - [D4944 - Standard Test Method for Field Determination of Water \(Moisture\) Content of Soil by the Calcium Carbide Gas Pressure Tester](#) has been revised to D4944-11
  - [D5890 - Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners](#) has been revised to D5890-11
  - [D6459 - Standard Test Method for Determination of Rolled Erosion Control Product \(RECP\) Performance in Protecting Hillslopes from Rainfall-Induced Erosion](#) has been revised to D6459-11
  - [D6638 - Standard Test Method for Determining Connection Strength Between Geosynthetic Reinforcement and Segmental Concrete Units \(Modular Concrete Blocks\)](#) has been revised to D6638-11
  - [D6817 - Standard Specification for Rigid Cellular Polystyrene Geofoam](#) has been revised to D6817-11
  - [D7243 - Standard Guide for Measuring the Saturated Hydraulic Conductivity of Paper Industry Sludges](#) has been revised to D7243-11
  - [D7363 - Standard Test Method for Determination of Parent and Alkyl Polycyclic Aromatics in Sediment Pore Water Using Solid-Phase Microextraction and Gas Chromatography/Mass Spectrometry in Selected Ion Monitoring Mode](#) has been revised

to D7363-11

- [D7575 - Standard Test Method for Solvent-Free Membrane Recoverable Oil and Grease by Infrared Determination](#) has been revised to D7575-11
- [E772 - Standard Terminology of Solar Energy Conversion](#) has been revised to E772-11
  
- [E2422 - Standard Digital Reference Images for Inspection of Aluminum Castings](#) has been revised to E2422-11
  
- [E2660 - Standard Digital Reference Images for Investment Steel Castings for Aerospace Applications](#) has been revised to E2660-11
- [E2669 - Standard Digital Reference Images for Titanium Castings](#) has been revised to E2669-11
- [G91 - Standard Practice for Monitoring Atmospheric SO<sub>2</sub> Deposition Rate for Atmospheric Corrosivity Evaluation](#) has been revised (with title change) to G91-11

### Reapproved Standards

- [D490 - Standard Specification for Road Tar](#) has been reapproved, available as D490-92(2011)
- [D4071 - Standard Practice for Use of Portland Cement Concrete Bridge Deck Water Barrier Membrane Systems](#) has been reapproved, available as D4071-84(2011)
- [D6244 - Standard Test Method for Vertical Compression of Geocomposite Pavement Panel Drains](#) has been reapproved, available as D6244-06(2011)
- [D6364 - Standard Test Method for Determining Short-Term Compression Behavior of Geosynthetics](#) has been reapproved, available as D6364-06(2011)
- [D6916 - Standard Test Method for Determining the Shear Strength Between Segmental Concrete Units \(Modular Concrete Blocks\)](#) has been reapproved, available as D6916-06c(2011)
- [D7001 - Standard Specification for Geocomposites for Pavement Edge Drains and Other High-Flow Applications](#) has been reapproved, available as D7001-06(2011)
- [G52 - Standard Practice for Exposing and Evaluating Metals and Alloys in Surface Seawater](#) has been reapproved, available as G52-00(2011)

### Other Changes to Standards

- [C513 - Standard Test Method for Obtaining and Testing Specimens of Hardened Lightweight Insulating Concrete for Compressive Strength](#) has been reinstated, with revision to C513-11

### GeoPrac and ASTM Standards Updates

[ASTM standards](#) are an important part of my geotechnical engineering practice, and keeping

## ASTM Updates December 2011

Written by Randy Post

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up with changes can be a challenging thing. Their website offers an [ASTM standards tracker service](#)

[ASTM](#)

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](#)