



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TURF DIAGNOSTICS AND DESIGN

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GEOTECHNICAL
PUTTING GREEN MATERIALS

Valid To: November 30, 2012

Certificate Number: 0797.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Designation:	Short Title:
ASTM C29/C29M	Bulk Density (“Unit Weight”) and Voids in Aggregate
ASTM C88	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
ASTM C702	Reducing Samples of Aggregate to Testing Size
ASTM D75	Sampling Aggregates
ASTM D421	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock
ASTM D2974	Standard Test Method for Moisture, Ash and Organic Matter of Peat and Other Organic Soils
ASTM D3665	Random Sampling of Construction Materials
ASTM D4972	pH of Soils
ASTM D6393	Bulk Solids Characterization by Carr Indices (Method A)
ASTM E2396	Saturated Water Permeability of Granular Drainage Media [Falling-Head Method] for Green Roof Systems
ASTM E2397	Determination of Dead Loads and Live Loads associated with Green Roof Systems
ASTM E2398	Water Capture and Media Retention of Geocomposite Drain Layers for Green Roof Systems
ASTM E2399	Maximum Media Density for Dead Load Analysis of Green Roof Systems
ASTM F355*	Standard Test Method for Shock Absorbing Properties of Playing Surface Systems and Materials (Method A)
ASTM F1632	Standard Test Method for Particle Size Analysis and Sand Shape Grading of Golf Course Putting Green and Sports Field Root Zone Mixes
ASTM F1647	Standard Test Method for Organic Matter Content of Putting Green and Sports Turf Zone Mixes
ASTM F1815	Standard Test Method for Saturated Hydraulic Conductivity, Water Retention, Porosity, Particle Density and Bulk Density of Putting Green and Sports Turf Root Zones (Exc. Section 13)

SSSA

Particle Density by Pycnometer Method using Vacuum Dessicator to Remove Air (Flint, A.L., and L. E. Flint. 2002. Particle Density, p. 230-232. In J.H. Dane and P.T. Topp (ed.) Methods of Sol Analysis. Part 4. Soil Science Society of America, Madison, WI).

- Acid Reaction SOP
- Particle Size Analysis (USDA Modified) SOP - Pipette Method
- Bunker SOP
- Electrical Conductivity (EC) SOP
- Water Release Characterization SOP
- Infiltration Rate SOP (Saturated Hydraulic Conductivity-KSAT)
- Turf Diagnostics & Design SOP "Modification of ASTM F1815 Methods for Saturated Hydraulic Conductivity, Water Retention, Porosity, Particle Density and Bulk Density of Putting Green and Sports Turf Root Zone Mixes" (3 in. diameter by 2 in. high core)
- Determination of size factors SOP

* This laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing Laboratories for these tests.



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

TURF DIAGNOSTICS AND DESIGN

Linwood, KS

for technical competence in the field of

Geotechnical / Putting Green Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).



Presented this 19th day of November 2010.



President & CEO

For the Accreditation Council
Certificate Number 0797.01
Valid to November 30, 2012

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Geotechnical Scope of Accreditation.