



CERTIFICATE OF ACCREDITATION



Soil and Materials Engineers, Inc.

in

Kirtland, Ohio, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories ([aashtoresource.org](https://www.aashtoresource.org)).

A handwritten signature in black ink, appearing to read 'Jim Tymon', written over a horizontal line.

Jim Tymon,
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Matt Linneman', written over a horizontal line.

Matt Linneman,
AASHTO COMP Chair

This certificate was generated on 04/04/2026 at 9:35 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](https://www.aashtoresource.org/aap/accreditation-directory)



SCOPE OF AASHTO ACCREDITATION FOR:

Soil and Materials Engineers, Inc.
in Kirtland, Ohio, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/16/2012
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	03/08/2016
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	03/16/2012
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	06/28/2018
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	03/16/2012
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	03/16/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Soil and Materials Engineers, Inc.
in Kirtland, Ohio, USA

Asphalt Mixture

Standard:

Accredited Since:

R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	03/16/2012
T30	Mechanical Analysis of Extracted Aggregate	03/16/2012
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	03/16/2012
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	03/16/2012
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	03/16/2012
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	03/16/2012
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	03/16/2012
T355	Density of Bituminous Concrete In Place by Nuclear Methods	06/24/2024
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	03/16/2012
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	03/16/2012
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	03/16/2012
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	03/16/2012
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	03/16/2012
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	09/11/2020
D5444	Mechanical Analysis of Extracted Aggregate	03/16/2012
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	03/16/2012
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	03/16/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Soil and Materials Engineers, Inc.
in Kirtland, Ohio, USA

Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/16/2012
T88	Particle Size Analysis of Soils by Hydrometer	03/16/2012
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	03/16/2012
T90	Plastic Limit of Soils (Atterberg Limits)	03/16/2012
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/16/2012
T100	Specific Gravity of Soils	03/16/2012
T134	Moisture-Density Relations of Soil-Cement Mixtures	03/16/2012
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/16/2012
T208	Unconfined Compressive Strength of Cohesive Soil	03/16/2012
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	03/16/2012
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	03/16/2012
T265	Laboratory Determination of Moisture Content of Soils	03/16/2012
T267	Determination of Organic Content in Soils by Loss on Ignition	03/16/2012
T288	Minimum Soil Resistivity	06/24/2024
T289	pH of Soils for Corrosion Testing	06/24/2024
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	03/16/2012
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	03/16/2012
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	03/16/2012
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/16/2012
D422	Particle Size Analysis of Soils by Hydrometer	03/16/2012
D558	Moisture-Density Relations of Soil-Cement Mixtures	03/16/2012
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/16/2012
D854	Specific Gravity of Soils	03/16/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Soil and Materials Engineers, Inc.
in Kirtland, Ohio, USA

Soil (Continued)

Standard:	Accredited Since:
D1140 Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	06/24/2024
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/16/2012
D2166 Unconfined Compressive Strength of Cohesive Soil	03/16/2012
D2216 Laboratory Determination of Moisture Content of Soils	03/16/2012
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	03/16/2012
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	10/29/2020
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	03/16/2012
D2974 Determination of Organic Content in Soils by Loss on Ignition	03/16/2012
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	03/16/2012
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	03/16/2012
D4318 Plastic Limit of Soils (Atterberg Limits)	03/16/2012
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	03/16/2012
D4972 pH Testing of Soils	06/24/2024
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	06/24/2024
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	03/16/2012
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	06/24/2024



SCOPE OF AASHTO ACCREDITATION FOR:

Soil and Materials Engineers, Inc.

in Kirtland, Ohio, USA

Rock

Standard:

Accredited Since:

D4543	Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	06/24/2024
D4644	Slake Durability of Shales and Weak Rocks	07/16/2013
D5731	Point Load Strength Index of Rock	07/16/2013
D7012 (Method C)	Compressive Strength of Rock Core Specimens (Method C)	06/24/2024



SCOPE OF AASHTO ACCREDITATION FOR:

Soil and Materials Engineers, Inc.
in Kirtland, Ohio, USA

Aggregate

Standard:

Accredited Since:

T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	06/28/2018
T27	Sieve Analysis of Fine and Coarse Aggregates	06/28/2018
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	06/28/2018
T85	Specific Gravity and Absorption of Coarse Aggregate	06/28/2018
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/11/2020
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	10/29/2020
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	03/08/2016
C127	Specific Gravity and Absorption of Coarse Aggregate	03/08/2016
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	03/08/2016
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/11/2020
C136	Sieve Analysis of Fine and Coarse Aggregates	03/08/2016
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/11/2020
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	10/29/2020



SCOPE OF AASHTO ACCREDITATION FOR:

Soil and Materials Engineers, Inc.
in Kirtland, Ohio, USA

Concrete

Standard:		Accredited Since:
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	03/16/2012
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	03/16/2012
C39	Compressive Strength of Cylindrical Concrete Specimens	03/16/2012
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	08/20/2025
C138	Density (Unit Weight), Yield, and Air Content of Concrete	03/16/2012
C143	Slump of Hydraulic Cement Concrete	03/16/2012
C172	Sampling Freshly Mixed Concrete	03/16/2012
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	03/16/2012
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	03/16/2012
C293	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	03/16/2012
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	04/20/2012
C617 (9000 psi and below)	Capping Cylindrical Concrete Specimens	08/20/2025
C1064	Temperature of Freshly Mixed Portland Cement Concrete	03/16/2012
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	04/20/2012
C1542	Measuring Length of Concrete Cores	08/20/2025