



# CERTIFICATE OF ACCREDITATION



## Standard Testing & Engineering Company

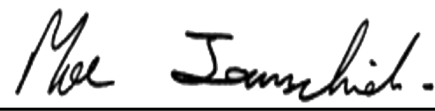
in

### Oklahoma City, Oklahoma, 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](http://aashtoresource.org)).

  
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Bud Wright,  
AASHTO Executive Director

  
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Moe Jamshidi,  
AASHTO COMP Chair

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# SCOPE OF AASHTO ACCREDITATION FOR:

Standard Testing & Engineering Company  
in Oklahoma City, Oklahoma, USA

## Quality Management System

<b>Standard:</b>		<b>Accredited Since:</b>
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	04/08/2013
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	04/08/2013
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	04/08/2013
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	04/08/2013
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	09/06/2016
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	04/08/2013
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/08/2013
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/06/2016
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/08/2013
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/08/2013
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/06/2016



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Asphalt Mixture

Standard:		Accredited Since:
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	04/08/2013
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	04/08/2013
T30	Mechanical Analysis of Extracted Aggregate	04/08/2013
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	04/08/2013
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/08/2013
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	04/08/2013
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	10/28/2014
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	10/06/2017
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	04/08/2013
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	09/06/2016
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor	04/08/2013
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	04/08/2013
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	04/08/2013
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/08/2013
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	04/08/2013
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	10/28/2014
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	10/06/2017
D5444	Mechanical Analysis of Extracted Aggregate	04/08/2013
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	09/06/2016
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor	04/08/2013
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	04/08/2013
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	04/08/2013
D6931	Indirect Tensile Strength (IDT)	10/06/2017



**SCOPE OF AASHTO ACCREDITATION FOR:**  
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**Asphalt Mixture (Continued)**

**Standard:**

**Accredited Since:**

Tex-206-F Compacting Specimens Using the Texas Gyratory Compactor (TGC)

08/15/2014



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/08/2013
R74	Wet Preparation of Disturbed Soil Samples for Test	04/08/2013
T88	Particle Size Analysis of Soils by Hydrometer	04/08/2013
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	04/08/2013
T90	Plastic Limit of Soils (Atterberg Limits)	04/08/2013
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/08/2013
T100	Specific Gravity of Soils	04/08/2013
T134	Moisture-Density Relations of Soil-Cement Mixtures	04/08/2013
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	10/06/2017
T136	Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	10/06/2017
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/08/2013
T191	Density of Soil In-Place by the Sand Cone Method	04/08/2013
T193	The California Bearing Ratio	04/08/2013
T208	Unconfined Compressive Strength of Cohesive Soil	04/08/2013
T215	Permeability of Granular Soils (Constant Head)	04/08/2013
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	04/08/2013
T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	04/08/2013
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	04/08/2013
T265	Laboratory Determination of Moisture Content of Soils	04/08/2013
T267	Determination of Organic Content in Soils by Loss on Ignition	04/08/2013
T289	pH of Soils for Corrosion Testing	08/15/2014
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	04/08/2013
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	04/08/2013



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Soil (Continued)

Standard:		Accredited Since:
T311	Grain-Size Analysis of Granular Soil Materials	10/06/2017
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/08/2013
D422	Particle Size Analysis of Soils by Hydrometer	04/08/2013
D558	Moisture-Density Relations of Soil-Cement Mixtures	04/08/2013
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	10/06/2017
D560	Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	10/06/2017
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/08/2013
D854	Specific Gravity of Soils	04/08/2013
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	04/08/2013
D1556	Density of Soil In-Place by the Sand Cone Method	04/08/2013
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/08/2013
D1883	The California Bearing Ratio	04/08/2013
D2166	Unconfined Compressive Strength of Cohesive Soil	04/08/2013
D2216	Laboratory Determination of Moisture Content of Soils	04/08/2013
D2434	Permeability of Granular Soils (Constant Head)	04/08/2013
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	04/08/2013
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	04/08/2013
D2488	Description and Identification of Soils (Visual-Manual Procedure)	04/08/2013
D2850	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	04/08/2013
D2974	Determination of Organic Content in Soils by Loss on Ignition	04/08/2013
D3080 (4000 lb/ft-sq or Greater Normal Stress)	Direct Shear Test of Soils Under Consolidated Drained Conditions (with Exceptions)	09/06/2016
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	04/08/2013
D4318	Plastic Limit of Soils (Atterberg Limits)	04/08/2013



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**Soil (Continued)**

<b>Standard:</b>		<b>Accredited Since:</b>
D4546	One-Dimensional Swell or Settlement Potential of Cohesive Soils	04/08/2013
D4643	Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	08/15/2014
D4718	Oversize Particle Correction	08/15/2014
D4943	Shrinkage Factors of Soil by Wax Method	04/08/2013
D4944	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	04/08/2013
D4972	pH Testing of Soils	04/08/2013
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	10/06/2017
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	04/08/2013



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## Aggregate

Standard:	Accredited Since:
R76 Reducing Samples of Aggregate to Testing Size	04/08/2013
T2 Sampling Aggregate	08/15/2014
T11 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	04/08/2013
T19 Bulk Density ("Unit Weight") and Voids in Aggregate	04/08/2013
T21 Organic Impurities in Fine Aggregates for Concrete	04/08/2013
T27 Sieve Analysis of Fine and Coarse Aggregates	04/08/2013
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	04/08/2013
T85 Specific Gravity and Absorption of Coarse Aggregate	04/08/2013
T96 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/15/2014
T104 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	10/28/2014
T112 Clay Lumps and Friable Particles in Aggregate	08/15/2014
T176 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	04/08/2013
T210 Aggregate Durability Index	04/08/2013
T255 Total Moisture Content of Aggregate by Drying	04/08/2013
T303 Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	10/26/2015
T304 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	04/08/2013
T335 Determining the Percentage of Fractured Particles in Coarse Aggregate	08/15/2014
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	04/08/2013
C40 Organic Impurities in Fine Aggregates for Concrete	04/08/2013
C88 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	04/08/2013
C117 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	04/08/2013
C127 Specific Gravity and Absorption of Coarse Aggregate	04/08/2013
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	04/08/2013





**SCOPE OF AASHTO ACCREDITATION FOR:**  
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**Aggregate (Continued)**

<b>Standard:</b>	<b>Accredited Since:</b>
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/08/2013
C136 Sieve Analysis of Fine and Coarse Aggregates	04/08/2013
C142 Clay Lumps and Friable Particles in Aggregate	04/08/2013
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/08/2013
C566 Total Moisture Content of Aggregate by Drying	04/08/2013
C702 Reducing Samples of Aggregate to Testing Size	04/08/2013
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	04/08/2013
C1260 Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	04/08/2013
C1567 Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	04/08/2013
D75 Sampling Aggregate	08/15/2014
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	04/08/2013
D3744 Aggregate Durability Index	04/08/2013
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	04/08/2013
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	04/08/2013



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## Sprayed Fire-Resistive Material

**Standard:**

**Accredited Since:**

E605 Thickness and Density of Sprayed Fire-Resistive Material(SFRM) Applied to Structural Members

04/08/2013

E736 Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members

04/08/2013



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## Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	04/08/2013
R39	Making and Curing Concrete Test Specimens in the Laboratory	04/08/2013
R60	Sampling Freshly Mixed Concrete	04/08/2013
T22	Compressive Strength of Cylindrical Concrete Specimens	04/08/2013
T23	Making and Curing Concrete Test Specimens in the Field	04/08/2013
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	04/08/2013
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/08/2013
T119	Slump of Hydraulic Cement Concrete	04/08/2013
T121	Density (Unit Weight), Yield, and Air Content of Concrete	04/08/2013
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	04/08/2013
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	04/08/2013
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	04/08/2013
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	04/08/2013
T197	Time of Setting of Concrete Mixtures by Penetration Resistance	10/26/2015
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	04/08/2013
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	04/08/2013
T309	Temperature of Freshly Mixed Portland Cement Concrete	04/08/2013
T347	Slump Flow of Self-Consolidating Concrete	10/26/2015
C31	Making and Curing Concrete Test Specimens in the Field	04/08/2013
C39	Compressive Strength of Cylindrical Concrete Specimens	04/08/2013
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	04/08/2013
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/08/2013
C138	Density (Unit Weight), Yield, and Air Content of Concrete	04/08/2013



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**Concrete (Continued)**

<b>Standard:</b>	<b>Accredited Since:</b>	
C143	Slump of Hydraulic Cement Concrete	04/08/2013
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	04/08/2013
C172	Sampling Freshly Mixed Concrete	04/08/2013
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	04/08/2013
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	04/08/2013
C192	Making and Curing Concrete Test Specimens in the Laboratory	04/08/2013
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	04/08/2013
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	10/26/2015
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	10/25/2017
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	04/08/2013
C567	Determining Density of Structural Lightweight Concrete	04/08/2013
C597	Pulse Velocity Through Concrete	04/08/2013
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	04/08/2013
C642	Density, Absorption, and Voids in Hardened Concrete	04/08/2013
C803	Penetration Resistance of Hardened Concrete	04/08/2013
C805	Rebound Number of Hardened Concrete	04/08/2013
C876	Half-Cell Potentials of Uncoated Reinforcing Steel in Concrete (copy 1)	04/08/2013
C1064	Temperature of Freshly Mixed Portland Cement Concrete	04/08/2013
C1152	Acid-Soluble Chloride in Mortar and Concrete	10/26/2015
C1218	Water-Soluble Chloride in Mortar and Concrete	10/26/2015
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	04/08/2013
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	04/08/2013
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	04/08/2013



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**Concrete (Continued)**

**Standard:**

**Accredited Since:**

C1611	Slump Flow of Self-Consolidating Concrete	10/26/2015
C1621	Passing Ability of Self-Consolidating Concrete by J-Ring	10/26/2015



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## Masonry

**Standard:**

**Accredited Since:**

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/25/2017
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/25/2017
C780 (Annex 6)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength	10/25/2017
C1019	Sampling and Testing Grout	10/25/2017