AASHTO ACCREDITED

CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AASHTO

Speedie & Associates, LLC

in

Phoenix, Arizona, 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).

Jim Tymon,
AASHTO Executive Director

Matt Linneman,
AASHTO COMP Chair

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Scope of AASHTO Accreditation for:

Speedie & Associates, LLC

in Phoenix, Arizona, USA

Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	11/01/1989
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/10/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/06/2018
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011

Scope of AASHTO Accreditation for:

Speedie & Associates, LLC

in Phoenix, Arizona, USA

Asphalt Binder

Standard:		Accredited Since:
T44	Solubility of Asphalt Materials in Trichloroethylene	05/11/2015
T49	Penetration of Original Sample of Asphalt Cement	03/15/2002
T53	Softening Point of Bitumen (Ring-and-Ball Apparatus)	03/15/2002
T228	Specific Gravity (Relative Density) of Asphalt Cement	03/15/2002
T316	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	03/15/2002
D5	Penetration of Original Sample of Asphalt Cement	03/15/2002
D36	Softening Point of Bitumen (Ring-and-Ball Apparatus)	03/15/2002
D70	Specific Gravity (Relative Density) of Asphalt Cement	03/15/2002
D2042	Solubility of Asphalt Materials in Trichloroethylene	05/11/2015
D4402	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	03/15/2002

Scope of AASHTO Accreditation for:

Speedie & Associates, LLC

in Phoenix, Arizona, USA

Emulsified Asphalt

Standard:		Accredited Since:
T59	Aggregate Coating	05/11/2015
T59	Residue by Evaporation	11/12/2003
T59	Sieve Test	05/11/2015
D6933	Sieve Test	05/11/2015
D6934	Residue by Evaporation	11/12/2003
D6998	Aggregate Coating	05/11/2015

Scope of AASHTO Accreditation for:

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Asphalt Mixture

Standard:		Accredited Since:
R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	12/13/2018
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA)	12/13/2018
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	11/01/1989
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	11/01/1989
R97	Sampling Bituminous Paving Mixtures	08/10/2022
T30	Mechanical Analysis of Extracted Aggregate	11/01/1989
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	11/01/1989
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/01/1989
T167	Compressive Strength of Hot Mix Asphalt	11/01/1989
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/01/1989
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	11/01/1989
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/01/1989
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	11/01/1989
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	11/01/1989
T287	Asphalt Content of Bituminous Mixtures by the Nuclear Method	11/01/1989
T305	Draindown Characteristics of HMA	05/11/2015
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/01/1989
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	11/01/1989
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	11/01/1989
T355	Density of Bituminous Concrete In Place by Nuclear Methods	12/13/2018
D979	Sampling Bituminous Paving Mixtures	12/13/2018
D1074	Compressive Strength of Hot Mix Asphalt	11/01/1989
D1075	Effect of Water on Cohesion of Compacted Bituminous Mixtures	11/01/1989

Asphalt Mixture (Continued)

Standard:	Accredited Since:
D1188 Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	11/01/1989
D2041 Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/01/1989
D2172 Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	11/01/1989
D2726 Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/01/1989
D2950 Density of Bituminous Concrete In Place by Nuclear Methods	09/10/2012
D3203 Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/01/1989
D3549 Thickness or Height of Compacted Bituminous Paving Mixture Specimens	08/10/2022
D4125 Asphalt Content of Bituminous Mixtures by the Nuclear Method	11/01/1989
D4867 Resistance of Compacted Mixtures to Moisture Induced Damage	11/01/1989
D5444 Mechanical Analysis of Extracted Aggregate	11/01/1989
D6307 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/01/1989
D6390 Draindown Characteristics of HMA	05/11/2015
D6925 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	11/01/1989
D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	11/01/1989
D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	11/01/1989
D6931 Indirect Tensile Strength (IDT)	05/11/2015

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	11/01/1989
R74	Wet Preparation of Disturbed Soil Samples for Test	11/01/1989
T88	Particle Size Analysis of Soils by Hydrometer	11/01/1989
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	11/01/1989
T90	Plastic Limit of Soils (Atterberg Limits)	11/01/1989
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/01/1989
T100	Specific Gravity of Soils	11/01/1989
T134	Moisture-Density Relations of Soil-Cement Mixtures	11/01/1989
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/01/1989
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	11/01/1989
T191	Density of Soil In-Place by the Sand Cone Method	11/01/1989
T193	The California Bearing Ratio	11/01/1989
T208	Unconfined Compressive Strength of Cohesive Soil	11/01/1989
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	11/01/1989
T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	11/01/1989
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	11/01/1989
T265	Laboratory Determination of Moisture Content of Soils	11/01/1989
T267	Determination of Organic Content in Soils by Loss on Ignition	11/01/1989
T288	Minimum Soil Resistivity	05/11/2015
T289	pH of Soils for Corrosion Testing	05/11/2015
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/01/1989
T311	Grain-Size Analysis of Granular Soil Materials	11/01/1989
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/01/1989

Scope of AASHTO Accreditation for:

Speedie & Associates, LLC

in Phoenix, Arizona, USA

Soil (Continued)

Standard:	Accredited Since:
D422 Particle Size Analysis of Soils by Hydrometer	11/01/1989
D558 Moisture-Density Relations of Soil-Cement Mixtures	11/01/1989
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/01/1989
D854 Specific Gravity of Soils	11/01/1989
D1140 Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	11/01/1989
D1556 Density of Soil In-Place by the Sand Cone Method	11/01/1989
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/01/1989
D1883 The California Bearing Ratio	11/01/1989
D2166 Unconfined Compressive Strength of Cohesive Soil	11/01/1989
D2216 Laboratory Determination of Moisture Content of Soils	11/01/1989
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	11/01/1989
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	11/01/1989
D2488 Description and Identification of Soils (Visual-Manual Procedure)	11/01/1989
D2844 Resistance R-Value and Expansion Pressure of Compacted Soils	11/01/1989
D2974 Determination of Organic Content in Soils by Loss on Ignition	11/01/1989
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	11/01/1989
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	11/01/1989
D4318 Plastic Limit of Soils (Atterberg Limits)	11/01/1989
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	11/01/1989
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	05/11/2015
D4718 Oversize Particle Correction	05/11/2015
D4829 Expansion Index of Soils	05/11/2015
D4943 Shrinkage Factors of Soil by Wax Method	09/10/2012

Scope of AASHTO Accreditation for:

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Soil (Continued)

Standard:	Accredited Since:
D4944 Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	11/01/1989
D4972 pH Testing of Soils	05/13/2025
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	11/01/1989
D5334 Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe	05/13/2025
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	12/13/2018
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/01/1989
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	12/13/2018
G187 Soil Resistivity Using the Two-Electrode Soil Box	05/13/2025

Scope of AASHTO Accreditation for:

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Rock

Standard:		Accredited Since:
D4543	Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	09/03/2025
D7012 (Method C)	Compressive Strength of Rock Core Specimens (Method C)	09/03/2025

Scope of AASHTO Accreditation for:

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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	11/01/1989
R90	Sampling Aggregate	12/13/2018
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	11/01/1989
T19	Bulk Density (“Unit Weight”) and Voids in Aggregate	11/01/1989
T21	Organic Impurities in Fine Aggregates for Concrete	11/01/1989
T27	Sieve Analysis of Fine and Coarse Aggregates	11/01/1989
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/01/1989
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/01/1989
T85	Specific Gravity and Absorption of Coarse Aggregate	11/01/1989
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/01/1989
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	12/13/2018
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/01/1989
T112	Clay Lumps and Friable Particles in Aggregate	11/01/1989
T113	Lightweight Pieces in Aggregate	11/01/1989
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/01/1989
T210	Aggregate Durability Index	11/01/1989
T255	Total Moisture Content of Aggregate by Drying	11/01/1989
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/01/1989
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	05/11/2015
C29	Bulk Density (“Unit Weight”) and Voids in Aggregate	11/01/1989
C40	Organic Impurities in Fine Aggregates for Concrete	11/01/1989
C70	Surface Moisture in Fine Aggregate	11/01/1989
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/01/1989

Scope of AASHTO Accreditation for:

Speedie & Associates, LLC

in Phoenix, Arizona, USA

Aggregate (Continued)

Standard:		Accredited Since:
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	11/01/1989
C123	Lightweight Pieces in Aggregate	11/01/1989
C127	Specific Gravity and Absorption of Coarse Aggregate	11/01/1989
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/01/1989
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/01/1989
C136	Sieve Analysis of Fine and Coarse Aggregates	11/01/1989
C142	Clay Lumps and Friable Particles in Aggregate	11/01/1989
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/01/1989
C566	Total Moisture Content of Aggregate by Drying	11/01/1989
C702	Reducing Samples of Aggregate to Testing Size	11/01/1989
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/01/1989
D75	Sampling Aggregate	12/13/2018
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/01/1989
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/01/1989
D3744	Aggregate Durability Index	11/01/1989
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	11/01/1989
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	11/01/1989
CRD-C130	Estimating Scratch Test Hardness of Coarse Aggregate Particles	12/13/2018

Scope of AASHTO Accreditation for:

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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	01/04/2017

Scope of AASHTO Accreditation for:

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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	10/08/2013
R39	Making and Curing Concrete Test Specimens in the Laboratory	11/01/1989
R60	Sampling Freshly Mixed Concrete	11/01/1989
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	11/01/1989
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/01/1989
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	01/15/2025
T22	Compressive Strength of Cylindrical Concrete Specimens	11/01/1989
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	11/01/1989
T71	Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	01/15/2025
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/01/1989
T119	Slump of Hydraulic Cement Concrete	11/01/1989
T121	Density (Unit Weight), Yield, and Air Content of Concrete	11/01/1989
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	11/01/1989
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	11/01/1989
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	10/08/2013
T177	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	10/08/2013
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	11/01/1989
T197	Time of Setting of Concrete Mixtures by Penetration Resistance	10/08/2013
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	11/01/1989
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	11/04/2024
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	10/08/2013
T309	Temperature of Freshly Mixed Portland Cement Concrete	10/08/2013
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	11/01/1989

Scope of AASHTO Accreditation for:

Speedie & Associates, LLC

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Concrete (Continued)

Standard:		Accredited Since:
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/01/1989
C39	Compressive Strength of Cylindrical Concrete Specimens	11/01/1989
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	11/01/1989
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/01/1989
C87	Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	01/15/2025
C138	Density (Unit Weight), Yield, and Air Content of Concrete	11/01/1989
C143	Slump of Hydraulic Cement Concrete	11/01/1989
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	11/01/1989
C172	Sampling Freshly Mixed Concrete	11/01/1989
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	11/01/1989
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	11/01/1989
C192	Making and Curing Concrete Test Specimens in the Laboratory	11/01/1989
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	11/01/1989
C293	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	10/08/2013
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	01/15/2025
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	11/01/1989
C495	Compressive Strength of Lightweight Insulating Concrete	11/01/1989
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	11/01/1989
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/08/2013
C567	Determining Density of Structural Lightweight Concrete	11/01/1989
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	11/04/2024
C642	Density, Absorption, and Voids in Hardened Concrete	11/01/1989
C805	Rebound Number of Hardened Concrete	11/01/1989

Scope of AASHTO Accreditation for:

Speedie & Associates, LLC

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Concrete (Continued)

Standard:		Accredited Since:
C1064	Temperature of Freshly Mixed Portland Cement Concrete	11/01/1989
C1105	Length Change of Concrete Due to Alkali-Carbonate Rock Reaction	11/01/1989
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/17/2011
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	11/01/1989
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	10/08/2013
C1437	Flow of Hydraulic Cement Mortar	11/04/2024
C1542	Measuring Length of Concrete Cores	10/08/2013
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	11/01/1989

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Masonry

Standard:	Accredited Since:
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/29/2016
C1019 Sampling and Testing Grout	02/29/2016