



CERTIFICATE OF ACCREDITATION



FHWA-Central Federal Lands Highway Division

in

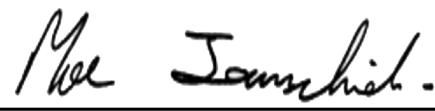
Denver, Colorado, USA

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



Moe Jamshidi,
AASHTO COMP Chair

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SCOPE OF AASHTO ACCREDITATION FOR:
 FHWA-Central Federal Lands Highway Division
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Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/01/1989
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	11/15/2001
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 Binder)	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
D3666 (Emulsified Asphalt)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	03/01/1989
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Asphalt Binder)	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	01/10/2011
E329 (Emulsified Asphalt)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/01/1989



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Asphalt Binder

Standard:

Accredited Since:

R28	Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel	03/01/1989
T50	Float Test for Bituminous Materials	03/01/1989
T51	Ductility of Bituminous Materials	03/01/1989
T228	Specific Gravity (Relative Density) of Asphalt Cement	03/01/1989
T240	Rolling Thin-Film Oven Testing	03/01/1989
T301	Elastic Recovery Test of Bituminous Materials by Means of a Ductilometer	03/01/1989
T313	Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	03/01/1989
T315	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	03/01/1989
T316	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	03/01/1989
T350	Multiple Stress Creep and Recovery (MSCR) at 64°C, 25mm plate, 1mm gap	09/30/2016
D70	Specific Gravity (Relative Density) of Asphalt Cement	03/01/1989
D113	Ductility of Bituminous Materials	03/01/1989
D139	Float Test for Bituminous Materials	03/01/1989
D2872	Rolling Thin-Film Oven Testing	03/01/1989
D4402	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	03/01/1989
D6084	Elastic Recovery Test of Bituminous Materials by Means of a Ductilometer	03/01/1989
D6648	Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	03/01/1989
D7175	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	03/01/1989
D7405	Multiple Stress Creep and Recovery (MSCR) at 64°C, 25mm plate, 1mm gap	03/01/1989



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Emulsified Asphalt

Standard:	Accredited Since:
T59 Aggregate Coating	03/01/1989
T59 Cement Mixing	03/01/1989
T59 Particle Charge	03/01/1989
T59 Residue by Evaporation	03/01/1989
T59 Saybolt Viscosity at 25°C (77°F)	03/01/1989
T59 Saybolt Viscosity at 50°C (122°F)	03/01/1989
T59 Settlement and Storage Stability	03/01/1989
T59 Sieve Test	03/01/1989
D6930 Settlement and Storage Stability	03/01/1989
D6933 Sieve Test	03/01/1989
D6934 Residue by Evaporation	03/01/1989
D6935 Cement Mixing	03/01/1989
D6998 Aggregate Coating	03/01/1989
D7402 Particle Charge	03/01/1989
D7496-D88 Saybolt Viscosity at 25°C (77°F)	03/01/1989
D7496-D88 Saybolt Viscosity at 50°C (122°F)	03/01/1989



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Asphalt Mixture

Standard:	Accredited Since:
R30	Mixture Conditioning of Hot Mix Asphalt (HMA) 09/30/2016
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA) 09/30/2016
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size 03/01/1989
T30	Mechanical Analysis of Extracted Aggregate 03/01/1989
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens 03/01/1989
T167	Compressive Strength of Hot Mix Asphalt 03/01/1989
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures 03/01/1989
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus 10/24/2014
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor 03/01/1989
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures 03/01/1989
T283	Resistance of Compacted Mixtures to Moisture Induced Damage 03/01/1989
T305	Draindown Characteristics of HMA 10/24/2014
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method 03/01/1989
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor 03/01/1989
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method 03/01/1989
T331	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method 03/01/1989
D1074	Compressive Strength of Hot Mix Asphalt 03/01/1989
D1075	Effect of Water on Cohesion of Compacted Bituminous Mixtures 03/01/1989
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus 03/01/1989
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor 03/01/1989
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures 03/01/1989
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens 03/01/1989
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures 03/01/1989



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Asphalt Mixture (Continued)

Standard:		Accredited Since:
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	03/01/1989
D5444	Mechanical Analysis of Extracted Aggregate	03/01/1989
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	03/01/1989
D6390	Draindown Characteristics of HMA	10/24/2014
D6752	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method	03/01/1989
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor	03/01/1989
D6931	Indirect Tensile Strength (IDT)	03/01/1989



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/01/1989
R74	Wet Preparation of Disturbed Soil Samples for Test	03/01/1989
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	03/01/1989
T90	Plastic Limit of Soils (Atterberg Limits)	03/01/1989
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/01/1989
T100	Specific Gravity of Soils	03/01/1989
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/01/1989
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	03/01/1989
T265	Laboratory Determination of Moisture Content of Soils	03/01/1989
T267	Determination of Organic Content in Soils by Loss on Ignition	06/21/2012
T288	Minimum Soil Resistivity	10/24/2014
T289	pH of Soils for Corrosion Testing	10/24/2014
T311	Grain-Size Analysis of Granular Soil Materials	03/01/1989
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/01/1989
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/01/1989
D854	Specific Gravity of Soils	03/01/1989
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	03/01/1989
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/01/1989
D2216	Laboratory Determination of Moisture Content of Soils	03/01/1989
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	03/01/1989
D2488	Description and Identification of Soils (Visual-Manual Procedure)	03/01/1989
D2844	Resistance R-Value and Expansion Pressure of Compacted Soils	03/01/1989
D2974	Determination of Organic Content in Soils by Loss on Ignition	06/21/2012



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Soil (Continued)

Standard:

Accredited Since:

D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	03/01/1989
D4318 Plastic Limit of Soils (Atterberg Limits)	03/01/1989
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	09/30/2016
D4972 pH Testing of Soils	06/21/2012



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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	03/01/1989
R90	Sampling Aggregate	10/24/2014
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	03/01/1989
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	03/01/1989
T21	Organic Impurities in Fine Aggregates for Concrete	03/01/1989
T27	Sieve Analysis of Fine and Coarse Aggregates	03/01/1989
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	03/01/1989
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	03/01/1989
T85	Specific Gravity and Absorption of Coarse Aggregate	03/01/1989
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	03/01/1989
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	03/08/2019
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	03/01/1989
T112	Clay Lumps and Friable Particles in Aggregate	03/01/1989
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	03/01/1989
T255	Total Moisture Content of Aggregate by Drying	03/01/1989
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	03/01/1989
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	10/24/2014
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	03/01/1989
C40	Organic Impurities in Fine Aggregates for Concrete	03/01/1989
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	03/01/1989
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	03/01/1989
C127	Specific Gravity and Absorption of Coarse Aggregate	03/01/1989
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	03/01/1989



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Aggregate (Continued)

Standard:		Accredited Since:
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	03/01/1989
C136	Sieve Analysis of Fine and Coarse Aggregates	03/01/1989
C142	Clay Lumps and Friable Particles in Aggregate	03/01/1989
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	03/01/1989
C566	Total Moisture Content of Aggregate by Drying	03/01/1989
C702	Reducing Samples of Aggregate to Testing Size	03/01/1989
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	03/01/1989
D75	Sampling Aggregate	10/24/2014
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	03/01/1989
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	03/01/1989
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	03/01/1989
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	03/01/1989



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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	01/25/2013
R39	Making and Curing Concrete Test Specimens in the Laboratory	05/01/1989
R60	Sampling Freshly Mixed Concrete	05/01/1989
T22	Compressive Strength of Cylindrical Concrete Specimens	05/01/1989
T23 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	05/01/1989
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	07/15/2015
T119	Slump of Hydraulic Cement Concrete	05/01/1989
T121	Density (Unit Weight), Yield, and Air Content of Concrete	05/01/1989
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	05/01/1989
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	05/01/1989
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	01/25/2013
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	07/15/2015
T309	Temperature of Freshly Mixed Portland Cement Concrete	05/01/1989
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	05/01/1989
C39	Compressive Strength of Cylindrical Concrete Specimens	05/01/1989
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	05/01/1989
C138	Density (Unit Weight), Yield, and Air Content of Concrete	05/01/1989
C143	Slump of Hydraulic Cement Concrete	05/01/1989
C172	Sampling Freshly Mixed Concrete	05/01/1989
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	05/01/1989
C192	Making and Curing Concrete Test Specimens in the Laboratory	05/01/1989
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	05/01/1989
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	01/25/2013



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Concrete (Continued)

Standard:		Accredited Since:
C597	Pulse Velocity Through Concrete	05/01/1989
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	01/25/2013
C805	Rebound Number of Hardened Concrete	05/01/1989
C1064	Temperature of Freshly Mixed Portland Cement Concrete	05/01/1989
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	01/25/2013
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	03/01/1989
C1542	Measuring Length of Concrete Cores	07/15/2015
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	05/01/1989