



CERTIFICATE OF ACCREDITATION



FHWA-Eastern Federal Lands Highway Division

in

Sevierville, Tennessee, 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).

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 'Moe Jamshidi', written over a horizontal line.

Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 08/06/2020 at 9:13 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:
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Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	02/01/2001
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	09/09/2013
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/01/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011



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Asphalt Binder

Standard:

Accredited Since:

R28 Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel	02/01/2001
R29 Grading or Verifying the Performance Grade of an Asphalt Binder	05/09/2016
T48 Flash Point by Cleveland Open Cup	02/01/2001
T49 Penetration of Original Sample of Asphalt Cement	05/23/2014
T53 Softening Point of Bitumen (Ring-and-Ball Apparatus)	05/29/2018
T228 Specific Gravity (Relative Density) of Asphalt Cement	02/01/2001
T240 Rolling Thin-Film Oven Testing	02/01/2001
T313 Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	02/01/2001
T315 Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	02/01/2001
T316 Viscosity Determination of Asphalt Binder Using Rotational Viscometer	02/01/2001
T350 Multiple Stress Creep and Recovery (MSCR) at 64°C, 25mm plate, 1mm gap	05/09/2016
D5 Penetration of Original Sample of Asphalt Cement	09/13/2016



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Emulsified Asphalt

Standard:

Accredited Since:

T59	Particle Charge	05/23/2014
T59	Residue by Evaporation	05/29/2018
T59	Saybolt Viscosity at 25°C (77°F)	05/23/2014
T59	Saybolt Viscosity at 50°C (122°F)	05/23/2014
D6997	Residue by Distillation	05/29/2018



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Asphalt Mixture

Standard:	Accredited Since:
R30 Mixture Conditioning of Hot Mix Asphalt (HMA)	05/09/2016
R35 Superpave Volumetric Design for Hot Mix Asphalt (HMA)	05/09/2016
R47 Reducing Samples of Hot-Mix Asphalt to Testing Size	10/12/2011
R68 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	02/01/2001
T30 Mechanical Analysis of Extracted Aggregate	02/01/2001
T164 Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	02/01/2001
T166 Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	02/01/2001
T168 Sampling Bituminous Paving Mixtures	05/09/2016
T209 Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	02/01/2001
T245 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	02/01/2001
T269 Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	02/01/2001
T283 Resistance of Compacted Mixtures to Moisture Induced Damage	02/01/2001
T308 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	02/01/2001
T312 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	02/01/2001
T324 Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)	10/29/2019
T329 Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	10/12/2011
T331 Bulk Specific Gravity of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method	10/12/2011
D5404 Recovery of Asphalt from Solution Using the Rotavapor Apparatus	05/23/2014



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Soil

Standard:

Accredited Since:

R58 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/15/2001
T88 Particle Size Analysis of Soils by Hydrometer	07/15/2001
T89 Determining the Liquid Limit of Soils (Atterberg Limits)	07/15/2001
T90 Plastic Limit of Soils (Atterberg Limits)	07/15/2001
T99 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/15/2001
T100 Specific Gravity of Soils	07/15/2001
T180 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/15/2001
T193 The California Bearing Ratio	07/15/2001
T265 Laboratory Determination of Moisture Content of Soils	07/15/2001
T267 Determination of Organic Content in Soils by Loss on Ignition	05/23/2014
T288 Minimum Soil Resistivity	05/23/2014
T289 pH of Soils for Corrosion Testing	05/23/2014
G57 Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method	05/09/2016



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	07/15/2001
R90	Sampling Aggregate	05/23/2014
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/15/2001
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	07/15/2001
T27	Sieve Analysis of Fine and Coarse Aggregates	07/15/2001
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/15/2001
T85	Specific Gravity and Absorption of Coarse Aggregate	07/15/2001
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/15/2001
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	07/10/2012
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	07/15/2001
T255	Total Moisture Content of Aggregate by Drying	07/15/2001
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	07/15/2001
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	12/12/2019
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/15/2001
C127	Specific Gravity and Absorption of Coarse Aggregate	07/15/2001
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/15/2001
C136	Sieve Analysis of Fine and Coarse Aggregates	07/15/2001
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	05/23/2014
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	05/23/2014



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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	06/25/2014
R60	Sampling Freshly Mixed Concrete	04/20/2012
T22	Compressive Strength of Cylindrical Concrete Specimens	04/20/2012
T23	Making and Curing Concrete Test Specimens in the Field	04/20/2012
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/20/2012
T119	Slump of Hydraulic Cement Concrete	04/20/2012
T121	Density (Unit Weight), Yield, and Air Content of Concrete	04/20/2012
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	04/20/2012
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	04/20/2012
T231 (8000 psi and below)	Capping Cylindrical Concrete Specimens	12/12/2019
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	06/25/2014
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	06/16/2017
T309	Temperature of Freshly Mixed Portland Cement Concrete	04/20/2012
T358	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	12/12/2019
C31	Making and Curing Concrete Test Specimens in the Field	04/20/2012
C39	Compressive Strength of Cylindrical Concrete Specimens	05/09/2005
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/20/2012
C138	Density (Unit Weight), Yield, and Air Content of Concrete	05/09/2005
C143	Slump of Hydraulic Cement Concrete	05/09/2005
C172	Sampling Freshly Mixed Concrete	05/09/2005
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	05/09/2005
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	05/09/2005
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	04/20/2012



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Concrete (Continued)

Standard:	Accredited Since:
C617 (8000 psi and below) Capping Cylindrical Concrete Specimens	12/12/2019
C1064 Temperature of Freshly Mixed Portland Cement Concrete	05/09/2005
C1202 Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	06/25/2014
C1231 (7000 psi and below) Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	04/20/2012
C1260 Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	06/16/2017
C1567 Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	06/16/2017