



CERTIFICATE OF ACCREDITATION



DIW Group, Inc. dba Specialized Engineering

in

Frederick, Maryland, 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 08/25/2020 at 11:12 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	02/15/2007
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	04/30/2015
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	04/30/2015
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	08/16/2012
C1222 (Cement)	Evaluation of Laboratories Testing Hydraulic Cement	05/19/2014
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	02/05/2018
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	04/30/2015
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/30/2015
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/05/2018
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/30/2015
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/22/2019
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/30/2015



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Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	04/06/2011
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	02/05/2018
T30	Mechanical Analysis of Extracted Aggregate	07/12/2007
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	07/12/2007
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	07/12/2007
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	02/05/2018
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	07/12/2007
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	07/12/2007
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	07/12/2007
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	07/12/2007
T355	Density of Bituminous Concrete In Place by Nuclear Methods	02/05/2018
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	07/12/2007
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	07/12/2007
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	11/19/2015
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	07/12/2007
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	07/12/2007
D5444	Mechanical Analysis of Extracted Aggregate	07/12/2007
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	07/12/2007
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	07/12/2007
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	02/05/2018
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	02/05/2018



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/15/2007
T88	Particle Size Analysis of Soils by Hydrometer	02/15/2007
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	02/15/2007
T90	Plastic Limit of Soils (Atterberg Limits)	02/15/2007
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/15/2007
T100	Specific Gravity of Soils	02/15/2007
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	02/15/2007
T191	Density of Soil In-Place by the Sand Cone Method	02/15/2007
T193	The California Bearing Ratio	02/15/2007
T265	Laboratory Determination of Moisture Content of Soils	02/15/2007
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/15/2007
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/15/2007
D422	Particle Size Analysis of Soils by Hydrometer	02/15/2007
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/15/2007
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	02/15/2007
D1556	Density of Soil In-Place by the Sand Cone Method	02/15/2007
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	02/15/2007
D1883	The California Bearing Ratio	02/15/2007
D2216	Laboratory Determination of Moisture Content of Soils	02/15/2007
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	02/15/2007
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	02/15/2007
D4318	Plastic Limit of Soils (Atterberg Limits)	02/15/2007
D4943	Shrinkage Factors of Soil by Wax Method	08/20/2020



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Soil (Continued)

Standard:**Accredited Since:**

D4972 pH Testing of Soils	04/17/2013
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	02/15/2007
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/15/2007



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Rock

Standard:**Accredited Since:**

D4543 Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances

02/05/2018

D7012 Compressive Strength of Rock Core Specimens (Method C)

04/17/2013



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	08/16/2012
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	02/15/2007
T19	Bulk Density (“Unit Weight”) and Voids in Aggregate	12/05/2019
T21	Organic Impurities in Fine Aggregates for Concrete	02/15/2007
T27	Sieve Analysis of Fine and Coarse Aggregates	02/15/2007
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/15/2007
T85	Specific Gravity and Absorption of Coarse Aggregate	02/15/2007
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/18/2011
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	04/18/2011
T112	Clay Lumps and Friable Particles in Aggregate	12/05/2019
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	10/26/2015
T255	Total Moisture Content of Aggregate by Drying	04/06/2011
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/22/2019
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	12/05/2019
C29	Bulk Density (“Unit Weight”) and Voids in Aggregate	12/05/2019
C40	Organic Impurities in Fine Aggregates for Concrete	02/15/2007
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	02/15/2007
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	02/15/2007
C127	Specific Gravity and Absorption of Coarse Aggregate	02/15/2007
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/15/2007
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	02/15/2007
C136	Sieve Analysis of Fine and Coarse Aggregates	02/15/2007
C142	Clay Lumps and Friable Particles in Aggregate	12/05/2019



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Aggregate (Continued)

Standard:	Accredited Since:
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/16/2012
C566 Total Moisture Content of Aggregate by Drying	04/06/2011
C702 Reducing Samples of Aggregate to Testing Size	08/16/2012
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/22/2019
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	10/26/2015
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	10/26/2015
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	12/05/2019



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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

04/06/2011

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

04/06/2011



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Iron and Steel

Standard:

Accredited Since:

M111	Zinc Coatings on Iron and Steel: Thickness of Zinc (Magnetic)	08/20/2020
A123-E376	Zinc Coatings on Iron and Steel: Thickness of Zinc (Magnetic)	08/20/2020
F3125	Externally Threaded Fasteners (Bolts): Rotational Capacity	08/20/2020



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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	08/16/2012
R39	Making and Curing Concrete Test Specimens in the Laboratory	11/22/2019
R60	Sampling Freshly Mixed Concrete	05/19/2014
T22	Compressive Strength of Cylindrical Concrete Specimens	08/16/2012
T23	Making and Curing Concrete Test Specimens in the Field	05/19/2014
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	08/16/2012
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/16/2012
T119	Slump of Hydraulic Cement Concrete	05/19/2014
T121	Density (Unit Weight), Yield, and Air Content of Concrete	05/19/2014
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	12/05/2019
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	05/19/2014
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	08/16/2012
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	05/19/2014
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	08/16/2012
T231 (10000 psi and below)	Capping Cylindrical Concrete Specimens	12/01/2017
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	08/16/2012
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	10/08/2014
T309	Temperature of Freshly Mixed Portland Cement Concrete	05/19/2014
C31	Making and Curing Concrete Test Specimens in the Field	07/10/2007
C39	Compressive Strength of Cylindrical Concrete Specimens	07/10/2007
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	07/10/2007
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	07/10/2007
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/10/2007



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Concrete (Continued)

Standard:	Accredited Since:	
C143	Slump of Hydraulic Cement Concrete	07/10/2007
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	07/10/2007
C172	Sampling Freshly Mixed Concrete	07/10/2007
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/10/2007
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	12/05/2019
C192	Making and Curing Concrete Test Specimens in the Laboratory	11/22/2019
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/10/2007
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	07/10/2007
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/16/2012
C617 (10000 psi and below)	Capping Cylindrical Concrete Specimens	12/01/2017
C642	Density, Absorption, and Voids in Hardened Concrete	08/16/2012
C803	Penetration Resistance of Hardened Concrete	07/10/2007
C805	Rebound Number of Hardened Concrete	07/10/2007
C1064	Temperature of Freshly Mixed Portland Cement Concrete	07/10/2007
C1152	Acid-Soluble Chloride in Mortar and Concrete	10/08/2014
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	07/10/2007
C1218	Water-Soluble Chloride in Mortar and Concrete	10/08/2014
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	08/07/2012
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	10/08/2014
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	10/08/2014
C1542	Measuring Length of Concrete Cores	11/22/2019
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	10/08/2014



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Ultra-High Performance Concrete (UHPC)

Standard:

Accredited Since:

C1856-C31	Making Ultra-High Performance Concrete Test Specimens in the Field	12/05/2019
C1856-C39	Compressive Strength of Cylindrical Ultra-High Performance Concrete Specimens	12/05/2019
C1856-C42	Obtaining Drilled Cores and Sawed Beams of Ultra-High Performance Concrete	12/05/2019
C1856-C157	Length Change of Hardened Ultra-High Performance Concrete	12/05/2019
C1856-C191	Time of Setting of Hydraulic Cement used in Ultra-High Performance Concrete by Vicat Needle	12/05/2019
C1856-C192	Making Ultra-High Performance Concrete Test Specimens in the Laboratory	12/05/2019
C1856-C1202	Electrical Indication of Ultra-High Performance Concrete's Ability to Resist Chloride Ion Penetration	12/05/2019
C1856-C1437	Flow of Cement Mortar used in Ultra-High Performance Concrete	12/05/2019



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Cement - Physical Tests

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/19/2014
R71	Sampling and the Amount of Testing of Hydraulic Cement	05/19/2014
T105 (Loss on Ignition)	Loss on Ignition – Reference	11/22/2019
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	05/19/2014
T107	Autoclave Expansion of Portland Cement	05/19/2014
T129	Normal Consistency of Hydraulic Cement	05/19/2014
T131	Time of Setting of Hydraulic Cement by Vicat Needle	05/19/2014
T137	Air Content of Hydraulic Cement Mortar	05/19/2014
T153	Fineness of Hydraulic Cement by Air Permeability Apparatus	05/19/2014
T162	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	05/19/2014
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	05/19/2014
C114 (Loss on Ignition)	Loss on Ignition – Reference	11/22/2019
C151	Autoclave Expansion of Portland Cement	05/19/2014
C183	Sampling and the Amount of Testing of Hydraulic Cement	05/19/2014
C185	Air Content of Hydraulic Cement Mortar	05/19/2014
C187	Normal Consistency of Hydraulic Cement	05/19/2014
C191	Time of Setting of Hydraulic Cement by Vicat Needle	05/19/2014
C204	Fineness of Hydraulic Cement by Air Permeability Apparatus	05/19/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	05/19/2014
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/19/2014
C1437	Flow of Hydraulic Cement Mortar	05/19/2014



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Masonry

Standard:		Accredited Since:
C67	Brick: Absorption	10/08/2014
C67	Brick: Capping	10/08/2014
C67	Brick: Compressive Strength	10/08/2014
C67	Brick: Measurement	10/08/2014
C67	Brick: Specimen Preparation	10/08/2014
C140 (Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	08/16/2012
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/16/2012
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	11/22/2019
C780 (Annex 6)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength	08/16/2012
C1019	Sampling and Testing Grout	10/08/2010
C1314	Compressive Strength of Masonry Prisms	08/16/2012
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	08/16/2012



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Cementitious Material - Chemical Tests

Standard:

Accredited Since:

T105 Loss on Ignition – Reference

12/11/2014

C114 Loss on Ignition – Reference

12/11/2014