



CERTIFICATE OF ACCREDITATION



HWA GeoSciences Inc.

in

Bothell, Washington, 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 'Matt Linneman', written over a horizontal line.

Matt Linneman,
AASHTO COMP Chair

This certificate was generated on 10/30/2024 at 12:06 PM 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	10/23/2008
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	03/18/2016
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/23/2016
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	03/18/2016
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	03/18/2016
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	03/18/2016
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/18/2016
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/18/2016
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/26/2018
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/18/2016



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Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	12/02/2008
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	12/09/2019
R97	Sampling Bituminous Paving Mixtures	05/31/2023
T30	Mechanical Analysis of Extracted Aggregate	01/10/2019
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	12/09/2019
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	12/09/2019
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	12/09/2019
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	01/10/2019
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	05/31/2023
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	01/10/2019
T355	Density of Bituminous Concrete In Place by Nuclear Methods	01/10/2019
D979	Sampling Bituminous Paving Mixtures	01/10/2019
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	01/10/2019
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	12/02/2008
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	12/02/2008
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	01/10/2019
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	12/02/2008
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	05/31/2023
D5444	Mechanical Analysis of Extracted Aggregate	12/02/2008
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	12/02/2008
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	05/31/2023
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	09/13/2017
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	01/10/2019



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/10/2019
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	01/10/2019
T90	Plastic Limit of Soils (Atterberg Limits)	01/10/2019
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	01/10/2019
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	01/10/2019
T265	Laboratory Determination of Moisture Content of Soils	01/10/2019
T267	Determination of Organic Content in Soils by Loss on Ignition	01/10/2019
T288	Minimum Soil Resistivity	12/09/2019
T289	pH of Soils for Corrosion Testing	12/09/2019
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/10/2019
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/02/2008
D422	Particle Size Analysis of Soils by Hydrometer	12/02/2008
D558	Moisture-Density Relations of Soil-Cement Mixtures	01/10/2019
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	12/02/2008
D854	Specific Gravity of Soils	09/13/2017
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	01/10/2019
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	12/02/2008
D1883	The California Bearing Ratio	12/02/2008
D2166	Unconfined Compressive Strength of Cohesive Soil	01/10/2019
D2216	Laboratory Determination of Moisture Content of Soils	01/10/2019
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	01/10/2019
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/10/2019
D2488	Description and Identification of Soils (Visual-Manual Procedure)	01/10/2019



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Soil (Continued)

Standard:	Accredited Since:
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	01/10/2019
D2974 Determination of Organic Content in Soils by Loss on Ignition	01/10/2019
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	12/09/2019
D4254 Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	01/10/2019
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	01/10/2019
D4318 Plastic Limit of Soils (Atterberg Limits)	01/10/2019
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	01/10/2019
D4718 Oversize Particle Correction	01/10/2019
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	01/10/2019
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	01/10/2019
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	01/10/2019
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/10/2019
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	01/10/2019



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Aggregate

Standard:

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C29	Bulk Density ("Unit Weight") and Voids in Aggregate	12/02/2008
C40	Organic Impurities in Fine Aggregates for Concrete	01/10/2019
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	12/02/2008
C127	Specific Gravity and Absorption of Coarse Aggregate	12/02/2008
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	12/02/2008
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	12/02/2008
C136	Sieve Analysis of Fine and Coarse Aggregates	12/02/2008
C142	Clay Lumps and Friable Particles in Aggregate	01/10/2019
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	12/02/2008
C566	Total Moisture Content of Aggregate by Drying	12/02/2008
C702	Reducing Samples of Aggregate to Testing Size	12/02/2008
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/13/2017
D75	Sampling Aggregate	12/18/2012
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	12/02/2008
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	01/10/2019
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	12/02/2008



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Concrete

Standard:

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C31 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	03/03/2021
C39	Compressive Strength of Cylindrical Concrete Specimens	10/23/2008
C138	Density (Unit Weight), Yield, and Air Content of Concrete	10/23/2008
C143	Slump of Hydraulic Cement Concrete	10/23/2008
C172	Sampling Freshly Mixed Concrete	10/23/2008
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	10/23/2008
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	03/06/2013
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	03/03/2021
C1064	Temperature of Freshly Mixed Portland Cement Concrete	10/23/2008
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	10/23/2008