



CERTIFICATE OF ACCREDITATION



Aragon Geotechnical Inc.

in

Riverside, California, 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](https://www.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 12/02/2022 at 12:39 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](https://www.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	05/15/2002
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	05/15/2017
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	03/16/2022
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	12/09/2013
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	05/15/2017
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/09/2013
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/09/2013
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/16/2022
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/15/2017



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Asphalt Mixture

Standard:

Accredited Since:

R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	06/28/2019
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA)	06/28/2019
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	06/28/2019
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/15/2002
R97	Sampling Bituminous Paving Mixtures	11/04/2022
T30	Mechanical Analysis of Extracted Aggregate	05/15/2002
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/15/2002
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/15/2002
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/15/2002
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/15/2002
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	05/15/2002
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	05/15/2002
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/15/2002
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	06/28/2019
T324	Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)	06/28/2019
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	06/28/2019
T355	Density of Bituminous Concrete In Place by Nuclear Methods	06/28/2019
D979	Sampling Bituminous Paving Mixtures	06/28/2019
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	05/15/2002
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/15/2002
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/15/2002
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	12/09/2013
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/15/2002



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Asphalt Mixture (Continued)

Standard:

Accredited Since:

D3549 Thickness or Height of Compacted Bituminous Paving Mixture Specimens	11/04/2022
D4867 Resistance of Compacted Mixtures to Moisture Induced Damage	05/15/2002
D5444 Mechanical Analysis of Extracted Aggregate	05/15/2002
D6307 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/15/2002
D6925 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	06/28/2019
D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/15/2002
D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/15/2002



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	06/28/2019
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	10/27/2003
T90	Plastic Limit of Soils (Atterberg Limits)	10/27/2003
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	10/27/2003
T100	Specific Gravity of Soils	06/28/2019
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	10/27/2003
T191	Density of Soil In-Place by the Sand Cone Method	10/27/2003
T265	Laboratory Determination of Moisture Content of Soils	10/27/2003
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	10/27/2003
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	06/28/2019
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	10/27/2003
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	06/28/2019
D1556	Density of Soil In-Place by the Sand Cone Method	10/27/2003
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	10/27/2003
D2216	Laboratory Determination of Moisture Content of Soils	10/27/2003
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	06/28/2019
D2488	Description and Identification of Soils (Visual-Manual Procedure)	06/28/2019
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	10/27/2003
D4318	Plastic Limit of Soils (Atterberg Limits)	10/27/2003
D4718	Oversize Particle Correction	06/28/2019
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	06/28/2019
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	10/27/2003



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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	10/27/2003
R90	Sampling Aggregate	06/28/2019
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	10/27/2003
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	10/27/2003
T21	Organic Impurities in Fine Aggregates for Concrete	10/27/2003
T27	Sieve Analysis of Fine and Coarse Aggregates	10/27/2003
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	10/27/2003
T85	Specific Gravity and Absorption of Coarse Aggregate	10/27/2003
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	06/28/2019
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	06/28/2019
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	06/28/2019
T112	Clay Lumps and Friable Particles in Aggregate	06/28/2019
T113	Lightweight Pieces in Aggregate	06/28/2019
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	10/27/2003
T210	Aggregate Durability Index	06/28/2019
T255	Total Moisture Content of Aggregate by Drying	12/09/2013
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	05/08/2015
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	06/28/2019
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	12/09/2013
C40	Organic Impurities in Fine Aggregates for Concrete	12/09/2013
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	06/28/2019
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	12/09/2013
C123	Lightweight Pieces in Aggregate	06/28/2019



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Aggregate (Continued)

Standard:		Accredited Since:
C127	Specific Gravity and Absorption of Coarse Aggregate	12/09/2013
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	12/09/2013
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	06/28/2019
C136	Sieve Analysis of Fine and Coarse Aggregates	12/09/2013
C142	Clay Lumps and Friable Particles in Aggregate	06/28/2019
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	06/28/2019
C566	Total Moisture Content of Aggregate by Drying	12/09/2013
C702	Reducing Samples of Aggregate to Testing Size	12/09/2013
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	05/08/2015
D75	Sampling Aggregate	06/28/2019
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	12/09/2013
D3744	Aggregate Durability Index	06/28/2019
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	06/28/2019
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	06/28/2019



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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	08/02/2021
R39	Making and Curing Concrete Test Specimens in the Laboratory	08/02/2021
R60	Sampling Freshly Mixed Concrete	08/02/2021
R100	Making and Curing Concrete Test Specimens in the Field	08/02/2021
T22	Compressive Strength of Cylindrical Concrete Specimens	08/02/2021
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	08/02/2021
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/02/2021
T119	Slump of Hydraulic Cement Concrete	08/02/2021
T121	Density (Unit Weight), Yield, and Air Content of Concrete	08/02/2021
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	08/02/2021
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	08/02/2021
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	08/02/2021
T309	Temperature of Freshly Mixed Portland Cement Concrete	08/02/2021
C31	Making and Curing Concrete Test Specimens in the Field	08/02/2021
C39	Compressive Strength of Cylindrical Concrete Specimens	08/02/2021
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	08/02/2021
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/02/2021
C138	Density (Unit Weight), Yield, and Air Content of Concrete	08/02/2021
C143	Slump of Hydraulic Cement Concrete	08/02/2021
C172	Sampling Freshly Mixed Concrete	08/02/2021
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	08/02/2021
C192	Making and Curing Concrete Test Specimens in the Laboratory	08/02/2021
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	08/02/2021



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Concrete (Continued)

Standard:

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C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/02/2021
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	08/02/2021
C1040	In-Place Density of Unhardened and Hardened Concrete, Including Roller Compacted Concrete, By Nuclear Methods	08/02/2021
C1064	Temperature of Freshly Mixed Portland Cement Concrete	08/02/2021
C1231 (6000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	08/02/2021
C1542	Measuring Length of Concrete Cores	08/02/2021