



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).



Jim Tymon,
AASHTO Executive Director



Matt Linneman
AASHTO COMP Chair



SCOPE OF AASHTO ACCREDITATION FOR:

Aragon Geotechnical Inc.
in Riverside, California, USA

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 |



SCOPE OF AASHTO ACCREDITATION FOR:

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Asphalt Binder

Standard:

T49 Penetration of Original Sample of Asphalt Cement

07/25/2024

T51 Ductility of Bituminous Materials

07/25/2024

D5 Penetration of Original Sample of Asphalt Cement

07/25/2024

D113 Ductility of Bituminous Materials

07/25/2024

Accredited Since:



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Emulsified Asphalt

Standard:

Accredited Since:

| | | |
|-------|-------------------------|------------|
| T59 | Aggregate Coating | 07/25/2024 |
| T59 | Particle Charge | 07/25/2024 |
| T59 | Residue by Distillation | 07/25/2024 |
| T59 | Residue by Evaporation | 07/25/2024 |
| T59 | Sieve Test | 07/25/2024 |
| D6933 | Sieve Test | 07/25/2024 |
| D6934 | Residue by Evaporation | 07/25/2024 |
| D6997 | Residue by Distillation | 07/25/2024 |
| D6998 | Aggregate Coating | 07/25/2024 |
| D7402 | Particle Charge | 07/25/2024 |



SCOPE OF AASHTO ACCREDITATION FOR:

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Pavement Preservation

Standard:

D3910/D6372 Wet Track Abrasion Of Slurry Surfacing Systems

TB-100 Wet Track Abrasion Of Slurry Surfacing Systems

Accredited Since:

04/17/2023

04/17/2023



SCOPE OF AASHTO ACCREDITATION FOR:

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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 |
| T246 | Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus | 04/17/2023 |
| T247 | Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor | 04/17/2023 |
| 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 |
| D1560 (Stability) | Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus | 04/17/2023 |
| D1561 | Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor | 04/17/2023 |



SCOPE OF AASHTO ACCREDITATION FOR:

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Asphalt Mixture (Continued)

Standard:

Accredited Since:

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| 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 |
| 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:

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|-------|---|------------|
| 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 |
| T190 | Resistance R-Value and Expansion Pressure of Compacted Soils | 04/17/2023 |
| 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 |
| D2844 | Resistance R-Value and Expansion Pressure of Compacted Soils | 04/17/2023 |
| 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 |



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Soil (Continued)

Standard:

D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

Accredited Since:

10/27/2003



SCOPE OF AASHTO ACCREDITATION FOR:

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Aggregate

Standard:

Accredited Since:

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|-----------------------|---|------------|
| 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 |
| 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 |
| C127 | Specific Gravity and Absorption of Coarse Aggregate | 12/09/2013 |



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Aggregate (Continued)

Standard:**Accredited Since:**

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|-------|--|------------|
| 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:

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|---|---|------------|
| 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 (Beams) | Making and Curing Concrete Test Specimens in the Field | 08/02/2021 |
| R100 (Cylinders) | Making and Curing Concrete Test Specimens in the Field | 08/02/2021 |
| T22 | Compressive Strength of Cylindrical Concrete Specimens | 08/02/2021 |
| T24 (Drilling Cores of Concrete) | Drilling Cores of Concrete | 08/02/2021 |
| T24 (Testing Drilled Cores of Concrete) | Testing Drilled Cores 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 (10000 psi and below) | Capping Cylindrical Concrete Specimens | 01/27/2025 |
| T309 | Temperature of Freshly Mixed Portland Cement Concrete | 08/02/2021 |
| C31 (Beams) | Making and Curing Concrete Test Specimens in the Field | 08/02/2021 |
| C31 (Cylinders) | Making and Curing Concrete Test Specimens in the Field | 08/02/2021 |
| C39 | Compressive Strength of Cylindrical Concrete Specimens | 08/02/2021 |
| C42 (Drilling Cores of Concrete) | Drilling Cores of Concrete | 08/02/2021 |
| C42 (Testing Drilled Cores of Concrete) | Testing Drilled Cores 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 |



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Concrete (Continued)

Standard:

Accredited Since:

| | | |
|----------------------------|---|------------|
| 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 |
| C511 | Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes | 08/02/2021 |
| C617 (10000 psi and below) | Capping Cylindrical Concrete Specimens | 01/27/2025 |
| 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 (7000 psi and below) | Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders | 03/06/2023 |
| C1542 | Measuring Length of Concrete Cores | 08/02/2021 |