



# CERTIFICATE OF ACCREDITATION



## Sequoia Consultants, Inc.

in

### Orange, 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](http://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 04/28/2026 at 7:05 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](http://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	06/19/2008
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	03/22/2023
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	05/10/2023
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	04/08/2016
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	04/17/2014
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	04/17/2014
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	05/10/2023
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/17/2014
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/17/2014
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/08/2016
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/10/2023
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/10/2023
E329 (Steel Inspection)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/10/2023



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## Asphalt Mixture

Standard:		Accredited Since:
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	09/06/2019
T30	Mechanical Analysis of Extracted Aggregate	10/08/2015
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	09/06/2019
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	10/08/2015
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	10/08/2015
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	09/06/2019
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	09/06/2019
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	09/06/2019
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	10/08/2015
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	10/28/2014
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	10/28/2014
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	10/08/2015
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor	10/28/2014
T324	Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)	10/28/2014
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	10/28/2014
T355	Density of Bituminous Concrete In Place by Nuclear Methods	09/06/2019
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	06/19/2008
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	06/19/2008
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	06/19/2008
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	10/28/2014
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	06/19/2008
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	06/19/2008
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	06/19/2008



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## Asphalt Mixture (Continued)

<b>Standard:</b>		<b>Accredited Since:</b>
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	05/10/2023
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	09/06/2019
D5444	Mechanical Analysis of Extracted Aggregate	10/08/2015
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	06/19/2008
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	09/06/2019
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	12/11/2012
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	12/11/2012



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/06/2019
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	09/06/2019
T90	Plastic Limit of Soils (Atterberg Limits)	09/06/2019
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	06/28/2017
T134	Moisture-Density Relations of Soil-Cement Mixtures	09/06/2019
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	09/06/2019
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	06/28/2017
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	09/06/2019
T191	Density of Soil In-Place by the Sand Cone Method	09/06/2019
T265	Laboratory Determination of Moisture Content of Soils	09/06/2019
T288	Minimum Soil Resistivity	05/10/2023
T289	pH of Soils for Corrosion Testing	<b>Suspended</b>
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/06/2019
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/10/2023
D558	Moisture-Density Relations of Soil-Cement Mixtures	10/08/2015
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	10/08/2015
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	10/08/2015
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	06/19/2008
D1556	Density of Soil In-Place by the Sand Cone Method	06/19/2008
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	06/19/2008
D1633	Compressive Strength of Molded Soil-Cement Cylinders	05/10/2023
D2216	Laboratory Determination of Moisture Content of Soils	06/19/2008
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	06/28/2023



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## Soil (Continued)

Standard:	Accredited Since:
D2488 Description and Identification of Soils (Visual-Manual Procedure)	10/08/2015
D2844 Resistance R-Value and Expansion Pressure of Compacted Soils	06/19/2008
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	06/19/2008
D4318 Plastic Limit of Soils (Atterberg Limits)	06/19/2008
D4718 Oversize Particle Correction	09/06/2019
D4829 Expansion Index of Soils	06/28/2017
D4972 pH Testing of Soils	<b>Suspended</b>
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	09/06/2019
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	06/19/2008
G187 Soil Resistivity Using the Two-Electrode Soil Box	05/10/2023



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## Aggregate

### Standard:

### Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	05/10/2023
R90	Sampling Aggregate	05/10/2023
T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	10/08/2015
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	09/06/2019
T21	Organic Impurities in Fine Aggregates for Concrete	09/06/2019
T27	Sieve Analysis of Fine and Coarse Aggregates	10/08/2015
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	09/06/2019
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	10/08/2015
T85	Specific Gravity and Absorption of Coarse Aggregate	10/08/2015
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	10/08/2015
T112	Clay Lumps and Friable Particles in Aggregate	05/10/2023
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	10/08/2015
T210	Aggregate Durability Index	10/08/2015
T255	Total Moisture Content of Aggregate by Drying	09/06/2019
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	10/08/2015
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	10/08/2015
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	09/06/2019
C40	Organic Impurities in Fine Aggregates for Concrete	06/19/2008
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	06/19/2008
C127	Specific Gravity and Absorption of Coarse Aggregate	06/19/2008
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	06/19/2008
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/06/2019
C136	Sieve Analysis of Fine and Coarse Aggregates	06/19/2008



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## Aggregate (Continued)

### Standard:

### Accredited Since:

C142 Clay Lumps and Friable Particles in Aggregate	05/10/2023
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/06/2019
C566 Total Moisture Content of Aggregate by Drying	09/06/2019
C702 Reducing Samples of Aggregate to Testing Size	05/10/2023
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/06/2019
D75 Sampling Aggregate	05/10/2023
D546 Sieve Analysis of Mineral Filler for Road and Paving Materials	09/06/2019
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	06/19/2008
D3744 Aggregate Durability Index	09/06/2019
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	06/28/2017
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	09/06/2019



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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

05/10/2023



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## Iron and Steel

Standard:	Accredited Since:
M111 Zinc Coatings on Iron and Steel: Thickness of Zinc (Magnetic)	06/28/2023
M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	09/06/2019
M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	09/06/2019
M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	09/06/2019
M31-T285 Carbon-Steel Bars, Deformed and Plain: Bend Test	09/06/2019
M203-T244 Steel Strand, Uncoated Seven-Wire: Tension (Elongation)	08/19/2020
M203-T244 Steel Strand, Uncoated Seven-Wire: Tension (Ultimate Tensile Strength)	08/19/2020
M203-T244 Steel Strand, Uncoated Seven-Wire: Tension (Yield Strength)	08/19/2020
T244 Externally Threaded Fasteners (Bolts): Proof Load Determination	05/10/2023
T244 Externally Threaded Fasteners (Bolts): Ultimate Tensile Strength	05/10/2023
A615 Carbon-Steel Bars, Deformed and Plain: Unit Weight	05/10/2023
A706 Low Alloy Steel Bars, Deformed and Plain: Unit Weight	05/10/2023
A775 Epoxy Coated Reinforcing Bars: Coating Flexibility (Bend Test)	09/06/2019
A775 Epoxy Coated Reinforcing Bars: Film Thickness	06/28/2023
A970 Headed Steel Bars: Bend Test	09/06/2019
A563-E18 Internally Threaded Fasteners (Nuts): Rockwell Hardness	05/10/2023
A775-G62 Epoxy Coated Reinforcing Bars: Coating Continuity (Holidays)	09/06/2019
A123-E376 Zinc Coatings on Iron and Steel: Thickness of Zinc (Magnetic)	06/28/2023
A563-F606 Internally Threaded Fasteners (Nuts): Proof Load Determination	05/10/2023
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	10/08/2015
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	10/08/2015
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	10/08/2015
A615-E290 Carbon-Steel Bars, Deformed and Plain: Bend Test	12/11/2012



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## Iron and Steel (Continued)

Standard:	Accredited Since:
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	09/06/2019
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	09/06/2019
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	09/06/2019
A706-E290 Low Alloy Steel Bars, Deformed and Plain: Bend Test	09/06/2019
A970-A370 Headed Steel Bars: Tension (Elongation)	09/06/2019
A970-A370 Headed Steel Bars: Tension (Ultimate Tensile Strength)	09/06/2019
A970-A370 Headed Steel Bars: Tension (Yield Strength)	09/06/2019
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Elongation)	08/19/2020
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Ultimate Tensile Strength)	08/19/2020
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Yield Strength)	08/19/2020
A615-A1034 Carbon-Steel Bars, Deformed and Plain: Testing Mechanical Splices	09/06/2019
A706-A1034 Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical Splices	09/06/2019
F3125 Externally Threaded Fasteners (Bolts): Rotational Capacity	05/10/2023
F436-E18 Hardened Steel Washers: Rockwell Hardness	05/10/2023
F3125-E18 Externally Threaded Fasteners (Bolts): Rockwell Hardness	05/10/2023
F1554-A370 Anchor Bolts: Tension (Elongation)	08/19/2020
F1554-A370 Anchor Bolts: Tension (Ultimate Tensile Strength of bar stock)	08/19/2020
F1554-A370 Anchor Bolts: Tension (Yield Strength)	08/19/2020
F1554-F606 Anchor Bolts: Tension (Ultimate Tensile Strength of finished bolts)	05/10/2023
F3125-F606 Externally Threaded Fasteners (Bolts): Proof Load Determination	05/10/2023
F3125-F606 Externally Threaded Fasteners (Bolts): Ultimate Tensile Strength	05/10/2023
A615-CT670 Carbon-Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	09/06/2019
A706-CT670 Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	09/06/2019



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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	08/30/2021
R39	Making and Curing Concrete Test Specimens in the Laboratory	08/30/2021
R60	Sampling Freshly Mixed Concrete	08/30/2021
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	08/30/2021
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	08/30/2021
T22	Compressive Strength of Cylindrical Concrete Specimens	08/30/2021
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	08/30/2021
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/30/2021
T119	Slump of Hydraulic Cement Concrete	08/30/2021
T121	Density (Unit Weight), Yield, and Air Content of Concrete	08/30/2021
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	08/30/2021
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	08/30/2021
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	08/30/2021
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	08/30/2021
T197	Time of Setting of Concrete Mixtures by Penetration Resistance	08/30/2021
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	08/30/2021
T231 (10000 psi and below)	Capping Cylindrical Concrete Specimens	02/12/2025
T309	Temperature of Freshly Mixed Portland Cement Concrete	08/30/2021
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	02/01/2011
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/01/2011
C39	Compressive Strength of Cylindrical Concrete Specimens	10/21/2008
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	05/29/2014
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/01/2011



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## Concrete (Continued)

Standard:		Accredited Since:
C138	Density (Unit Weight), Yield, and Air Content of Concrete	10/21/2008
C143	Slump of Hydraulic Cement Concrete	10/21/2008
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	05/14/2014
C172	Sampling Freshly Mixed Concrete	10/21/2008
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	10/21/2008
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	04/21/2016
C192	Making and Curing Concrete Test Specimens in the Laboratory	05/14/2014
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	10/21/2008
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	08/30/2021
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	09/14/2018
C495	Compressive Strength of Lightweight Insulating Concrete	08/30/2021
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	08/30/2021
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/29/2014
C617 (10000 psi and below)	Capping Cylindrical Concrete Specimens	02/12/2025
C1064	Temperature of Freshly Mixed Portland Cement Concrete	10/21/2008
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	08/30/2021
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/12/2025
C1542	Measuring Length of Concrete Cores	08/30/2021
C1604	Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete	08/30/2021



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## Masonry

### Standard:

### Accredited Since:

C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/30/2021
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	08/30/2021
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	08/30/2021
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	08/30/2021
C1019	Sampling and Testing Grout	08/30/2021
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	04/16/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	08/30/2021