



# CERTIFICATE OF ACCREDITATION



## **Ninyo & Moore Geotechnical & Environmental Sciences Consultants**

in

### **Las Vegas, Nevada, 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 06/24/2024 at 8:11 PM 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:

Ninyo & Moore Geotechnical & Environmental Sciences Consultants  
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## Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	04/15/1998
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	02/03/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/03/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	04/12/2018
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	09/10/2012
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	09/10/2012
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	09/10/2012
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/06/2015
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/06/2015
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/14/2015
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/06/2015
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/24/2019



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## Asphalt Mixture

### Standard:

### Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	07/24/2019
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	09/10/2012
R97	Sampling Bituminous Paving Mixtures	06/24/2022
T30	Mechanical Analysis of Extracted Aggregate	04/15/1998
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	02/06/2015
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	04/15/1998
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/15/1998
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	09/10/2012
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	05/05/2017
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	05/05/2017
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	04/15/1998
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	04/15/1998
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	06/24/2022
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	04/15/1998
T355	Density of Bituminous Concrete In Place by Nuclear Methods	07/24/2019
D979	Sampling Bituminous Paving Mixtures	07/24/2019
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	04/15/1998
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	05/05/2017
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	05/05/2017
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/15/1998
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	04/15/1998
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	07/24/2019
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	04/15/1998



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**Asphalt Mixture (Continued)**

<b>Standard:</b>		<b>Accredited Since:</b>
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	06/24/2022
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	06/24/2022
D5444	Mechanical Analysis of Extracted Aggregate	04/15/1998
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	04/15/1998
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	09/10/2012
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	09/10/2012



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## Soil

**Standard:**

**Accredited Since:**

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/15/1998
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	04/15/1998
T90	Plastic Limit of Soils (Atterberg Limits)	04/15/1998
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/15/1998
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/15/1998
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	02/06/2015
T191	Density of Soil In-Place by the Sand Cone Method	02/06/2015
T265	Laboratory Determination of Moisture Content of Soils	04/15/1998
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/06/2015
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/15/1998
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/15/1998
D1556	Density of Soil In-Place by the Sand Cone Method	02/06/2015
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/15/1998
D2216	Laboratory Determination of Moisture Content of Soils	04/15/1998
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	04/15/1998
D2488	Description and Identification of Soils (Visual-Manual Procedure)	04/15/1998
D2844	Resistance R-Value and Expansion Pressure of Compacted Soils	02/06/2015
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	04/15/1998
D4318	Plastic Limit of Soils (Atterberg Limits)	04/15/1998
D4829	Expansion Index of Soils	07/24/2019
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/06/2015



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## Aggregate

Standard:	Accredited Since:
R76 Reducing Samples of Aggregate to Testing Size	02/03/2011
R90 Sampling Aggregate	04/12/2018
T11 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	02/03/2011
T19 Bulk Density ("Unit Weight") and Voids in Aggregate	09/14/2015
T21 Organic Impurities in Fine Aggregates for Concrete	02/03/2011
T27 Sieve Analysis of Fine and Coarse Aggregates	02/03/2011
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/03/2011
T85 Specific Gravity and Absorption of Coarse Aggregate	02/03/2011
T96 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/14/2015
T104 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	05/05/2017
T112 Clay Lumps and Friable Particles in Aggregate	09/14/2015
T113 Lightweight Pieces in Aggregate	09/14/2015
T176 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	02/03/2011
T255 Total Moisture Content of Aggregate by Drying	02/03/2011
T304 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	03/23/2021
T330 The Qualitative Detection of Harmful Clays of the Smectite Group in Aggregates Using Methylene Blue	06/24/2022
T335 Determining the Percentage of Fractured Particles in Coarse Aggregate	03/23/2021
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	02/03/2011
C40 Organic Impurities in Fine Aggregates for Concrete	02/03/2011
C88 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	02/03/2011
C117 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	02/03/2011
C123 Lightweight Pieces in Aggregate	09/14/2015
C127 Specific Gravity and Absorption of Coarse Aggregate	02/03/2011



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Aggregate (Continued)

Standard:	Accredited Since:
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/03/2011
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/14/2015
C136 Sieve Analysis of Fine and Coarse Aggregates	02/03/2011
C142 Clay Lumps and Friable Particles in Aggregate	09/14/2015
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/14/2015
C566 Total Moisture Content of Aggregate by Drying	02/03/2011
C702 Reducing Samples of Aggregate to Testing Size	02/03/2011
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	03/23/2021
D75 Sampling Aggregate	04/12/2018
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	02/03/2011
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	04/12/2018
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	04/12/2018



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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

07/24/2019





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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	08/26/2013
R39	Making and Curing Concrete Test Specimens in the Laboratory	09/14/2015
R60	Sampling Freshly Mixed Concrete	02/03/2011
R100 (Beams)	Making and Curing Concrete Beam Test Specimens in the Field	02/03/2011
R100 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	02/03/2011
T22	Compressive Strength of Cylindrical Concrete Specimens	02/03/2011
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	04/12/2018
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/26/2013
T119	Slump of Hydraulic Cement Concrete	02/03/2011
T121	Density (Unit Weight), Yield, and Air Content of Concrete	02/03/2011
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	04/12/2018
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	02/03/2011
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	09/14/2015
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/03/2011
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	04/12/2018
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	03/23/2021
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	09/14/2015
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	09/14/2015
T309	Temperature of Freshly Mixed Portland Cement Concrete	08/26/2013
C31 (Beams)	Making and Curing Concrete Beam Test Specimens in the Field	02/03/2011
C31 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	02/03/2011
C39	Compressive Strength of Cylindrical Concrete Specimens	02/03/2011
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	04/12/2018



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## Concrete (Continued)

Standard:		Accredited Since:
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/03/2011
C138	Density (Unit Weight), Yield, and Air Content of Concrete	02/03/2011
C143	Slump of Hydraulic Cement Concrete	02/03/2011
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	09/14/2015
C172	Sampling Freshly Mixed Concrete	02/03/2011
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/03/2011
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	04/12/2018
C192	Making and Curing Concrete Test Specimens in the Laboratory	09/14/2015
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	02/03/2011
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	09/14/2015
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	04/12/2018
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/26/2013
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	03/23/2021
C1064	Temperature of Freshly Mixed Portland Cement Concrete	02/03/2011
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	09/14/2015
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/03/2011
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	09/14/2015
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	09/14/2015



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## Masonry

**Standard:**

**Accredited Since:**

C140 (Concrete Masonry Units) Sampling and Testing Concrete Masonry Units and Related Units	04/12/2018
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	04/12/2018
C1019 Sampling and Testing Grout	04/12/2018
C1314 Compressive Strength of Masonry Prisms	04/12/2018
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	04/12/2018