



CERTIFICATE OF ACCREDITATION



Pennoni Associates Inc.

in

King of Prussia, Pennsylvania, 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', is written over a horizontal line.

Jim Tymon,
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Matt Linneman', is written over a horizontal line.

Matt Linneman,
AASHTO COMP Chair

This certificate was generated on 10/27/2026 at 1:44 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Pennoni Associates Inc.

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Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	06/01/2000
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	11/17/2025
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/31/2024
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/17/2025
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/31/2024



SCOPE OF AASHTO ACCREDITATION FOR:

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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/15/2023
T88	Particle Size Analysis of Soils by Hydrometer	07/28/2026
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	05/15/2023
T90	Plastic Limit of Soils (Atterberg Limits)	05/15/2023
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/15/2023
T100	Specific Gravity of Soils	07/28/2026
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/15/2023
T193	The California Bearing Ratio	07/28/2026
T208	Unconfined Compressive Strength of Cohesive Soil	07/28/2026
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	07/28/2026
T265	Laboratory Determination of Moisture Content of Soils	05/15/2023
T267	Determination of Organic Content in Soils by Loss on Ignition	07/28/2026
T288	Minimum Soil Resistivity	01/28/2021
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/28/2026
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/23/2003
D422	Particle Size Analysis of Soils by Hydrometer	04/23/2003
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/23/2003
D854	Specific Gravity of Soils	04/23/2003
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	04/23/2003
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/23/2003
D1883	The California Bearing Ratio	04/23/2003
D2166	Unconfined Compressive Strength of Cohesive Soil	04/23/2003
D2216	Laboratory Determination of Moisture Content of Soils	04/23/2003



SCOPE OF AASHTO ACCREDITATION FOR:

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Soil (Continued)

Standard:	Accredited Since:
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	05/15/2023
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	09/25/2020
D2974 Determination of Organic Content in Soils by Loss on Ignition	04/15/2013
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	04/23/2003
D4318 Plastic Limit of Soils (Atterberg Limits)	04/23/2003
D4718 Oversize Particle Correction	09/25/2020
D4972 pH Testing of Soils	04/15/2013
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	09/25/2020
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/28/2026
D7263 Density and Unit Weight of Soil	05/15/2023
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	09/25/2020
G187 Soil Resistivity Using the Two-Electrode Soil Box	01/28/2021



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	04/15/2013
R90	Sampling Aggregate	10/23/2017
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	04/15/2013
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	04/15/2013
T21	Organic Impurities in Fine Aggregates for Concrete	04/15/2013
T27	Sieve Analysis of Fine and Coarse Aggregates	11/17/2025
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/17/2025
T85	Specific Gravity and Absorption of Coarse Aggregate	04/15/2013
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/28/2026
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	04/15/2013
T112	Clay Lumps and Friable Particles in Aggregate	04/15/2013
T113	Lightweight Pieces in Aggregate	04/15/2013
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	04/15/2013
T255	Total Moisture Content of Aggregate by Drying	04/15/2013
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/17/2025
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	04/15/2013
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	06/01/2000
C40	Organic Impurities in Fine Aggregates for Concrete	06/01/2000
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	06/01/2000
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	06/01/2000
C123	Lightweight Pieces in Aggregate	06/01/2000
C127	Specific Gravity and Absorption of Coarse Aggregate	06/01/2000
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/17/2025



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Aggregate (Continued)

Standard:

Accredited Since:

C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/05/2019
C136	Sieve Analysis of Fine and Coarse Aggregates	11/17/2025
C142	Clay Lumps and Friable Particles in Aggregate	06/01/2000
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/05/2019
C566	Total Moisture Content of Aggregate by Drying	06/01/2000
C702	Reducing Samples of Aggregate to Testing Size	06/01/2000
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/17/2025
D75	Sampling Aggregate	10/23/2017
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	04/15/2013
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	04/15/2013
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	04/15/2013
CRD-C130	Estimating Scratch Test Hardness of Coarse Aggregate Particles	05/15/2023



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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

05/15/2023

E736 Cohesion/Adhesion of Sprayed Fire-Resistive MaterialsApplied to Structural Members

05/15/2023



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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	11/17/2023
R39	Making and Curing Concrete Test Specimens in the Laboratory	12/08/2025
R60	Sampling Freshly Mixed Concrete	01/31/2024
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	01/31/2024
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	01/31/2024
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	11/17/2023
T22	Compressive Strength of Cylindrical Concrete Specimens	11/17/2023
T24 (Drilling Cores of Concrete)	Drilling Cores of Concrete	11/17/2023
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	11/17/2023
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/17/2023
T119	Slump of Hydraulic Cement Concrete	01/31/2024
T121	Density (Unit Weight), Yield, and Air Content of Concrete	01/31/2024
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	01/31/2024
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	05/23/2024
T161	Resistance of Concrete to Rapid Freezing and Thawing	11/17/2023
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	01/31/2024
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	01/31/2024
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	11/17/2023
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	11/17/2023
T309	Temperature of Freshly Mixed Portland Cement Concrete	01/31/2024
T325	Estimating Concrete Strength by the Maturity Method	11/17/2023
T358	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	11/17/2023
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	01/31/2024



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Concrete (Continued)

Standard:		Accredited Since:
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	01/31/2024
C39	Compressive Strength of Cylindrical Concrete Specimens	06/01/2000
C42 (Drilling Cores of Concrete)	Drilling Cores of Concrete	11/17/2023
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	11/17/2023
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/17/2023
C138	Density (Unit Weight), Yield, and Air Content of Concrete	01/31/2024
C143	Slump of Hydraulic Cement Concrete	01/31/2024
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	05/23/2024
C172	Sampling Freshly Mixed Concrete	01/31/2024
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	01/31/2024
C192	Making and Curing Concrete Test Specimens in the Laboratory	12/08/2025
C215	Fundamental Transverse, Longitudinal and Torsional Frequencies of Concrete Specimens	11/17/2023
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	01/31/2024
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	11/17/2023
C457	Microscopical Determination of Parameters of the Air-Void System in Hardened Concrete	11/17/2023
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	12/08/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/11/2011
C567	Determining Density of Structural Lightweight Concrete	11/17/2023
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	01/31/2024
C642	Density, Absorption, and Voids in Hardened Concrete	11/17/2023
C666	Resistance of Concrete to Rapid Freezing and Thawing	11/17/2023
C672	Scaling Resistance of Concrete Surfaces Exposed to De-icing Chemicals	11/17/2023
C944	Abrasion Resistance of Concrete or Mortar Surfaces by the Rotating-Cutter Method	11/17/2023



SCOPE OF AASHTO ACCREDITATION FOR:

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Concrete (Continued)

Standard:

Accredited Since:

C1064	Temperature of Freshly Mixed Portland Cement Concrete	01/31/2024
C1074	Estimating Concrete Strength by the Maturity Method	11/17/2023
C1138	Abrasion Resistance of Concrete (Underwater Method)	11/17/2023
C1140	Preparing and Testing Specimens from Shotcrete Test Panels	12/08/2025
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	11/17/2023
C1218	Water-Soluble Chloride in Mortar and Concrete	11/17/2023
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	03/16/2017
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	11/17/2023
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	01/31/2024
C1542	Measuring Length of Concrete Cores	11/17/2023
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	11/17/2023
C1583	Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)	12/08/2025



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Masonry

Standard:

Accredited Since:

C140 (Concrete Interlocking Paving Units)	Sampling and Testing Concrete Masonry Units and Related Units	01/31/2024
C140 (Full-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	12/08/2025
C140 (Segmental Retaining Wall Units)	Sampling and Testing Concrete Masonry Units and Related Units	01/31/2024
C426	Linear Drying Shrinkage of Concrete Masonry Units	01/31/2024
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	01/31/2024
C1019	Sampling and Testing Grout	01/31/2024
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	12/08/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	01/31/2024
C1645	Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units	01/31/2024



SCOPE OF AASHTO ACCREDITATION FOR:

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Ultra-High Performance Concrete (UHPC)

Standard:

Accredited Since:

C1856 (Sampling)	Sampling Specimens of Ultra-High Performance Concrete	12/08/2025
C1856-C31 (Cylinders)	Making Ultra-High Performance Concrete Test Specimens in the Field (Cylinders)	12/08/2025
C1856-C39	Compressive Strength of Cylindrical Ultra-High Performance Concrete Specimens	11/17/2023
C1856-C42 (Testing Drilled Cores of Ultra-High Performance Concrete)	Testing Drilled Cores of Ultra-High Performance Concrete	12/08/2025
C1856-C157	Length Change of Hardened Ultra-High Performance Concrete	05/23/2024
C1856-C192 (Cylinders)	Making Ultra-High Performance Concrete Test Specimens in the Laboratory (Cylinders)	12/08/2025
C1856-C469	Static Modulus of Elasticity and Poisson's Ratio of Ultra-High Performance Concrete in Compression	12/08/2025
C1856-C511	Curing Specimens of Ultra-High Performance Concrete	11/17/2023
C1856-C666	Resistance of Ultra-High Performance Concrete to Rapid Freezing and Thawing	12/08/2025
C1856-C944	Abrasion Resistance of Ultra-High Performance Concrete Surfaces by the Rotating-Cutter Method	12/08/2025
C1856-C1202	Electrical Indication of Ultra-High Performance Concrete's Ability to Resist Chloride Ion Penetration	12/08/2025
C1856-C1437	Flow of Cement Mortar used in Ultra-High Performance Concrete	12/08/2025