



CERTIFICATE OF ACCREDITATION



Froehling & Robertson, Incorporated

in

Richmond, Virginia, 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', 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 06/12/2026 at 12:18 AM Eastern Time. Please confirm the current accreditation status of this laboratory at 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	06/25/2018
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	12/28/2023
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	04/12/2012
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	01/26/2016
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	10/09/2015
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	10/22/2014
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/28/2023
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	10/09/2015



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Asphalt Mixture

Standard:

Accredited Since:

T166 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	11/01/2023
D2726 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	11/01/2023



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/01/2023
T88	Particle Size Analysis of Soils by Hydrometer	11/01/2023
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	11/01/2023
T90	Plastic Limit of Soils (Atterberg Limits)	11/01/2023
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/01/2023
T100	Specific Gravity of Soils	11/01/2023
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/01/2023
T191	Density of Soil In-Place by the Sand Cone Method	11/01/2023
T193	The California Bearing Ratio	11/01/2023
T265	Laboratory Determination of Moisture Content of Soils	11/01/2023
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/01/2023
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/23/2011
D422	Particle Size Analysis of Soils by Hydrometer	05/23/2011
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/15/1998
D854	Specific Gravity of Soils	11/01/2023
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	05/23/2011
D1556	Density of Soil In-Place by the Sand Cone Method	05/23/2011
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/15/1998
D1883	The California Bearing Ratio	05/23/2011
D2216	Laboratory Determination of Moisture Content of Soils	05/23/2011
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	11/15/1998
D2488	Description and Identification of Soils (Visual-Manual Procedure)	11/15/1998
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	05/23/2011



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Soil (Continued)

Standard:

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D4318 Plastic Limit of Soils (Atterberg Limits)	11/15/1998
D4718 Oversize Particle Correction	11/01/2023
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	11/01/2023
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/31/2013
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	11/01/2023



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	11/01/2023
R90	Sampling Aggregate	11/01/2023
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	11/01/2023
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	11/01/2023
T21	Organic Impurities in Fine Aggregates for Concrete	11/01/2023
T27	Sieve Analysis of Fine and Coarse Aggregates	12/28/2023
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/01/2023
T85	Specific Gravity and Absorption of Coarse Aggregate	11/01/2023
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/01/2023
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	12/28/2023
T112	Clay Lumps and Friable Particles in Aggregate	11/01/2023
T113	Lightweight Pieces in Aggregate	11/01/2023
T255	Total Moisture Content of Aggregate by Drying	11/01/2023
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	07/18/2018
C40	Organic Impurities in Fine Aggregates for Concrete	09/01/1998
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	05/31/2013
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	10/05/2018
C123	Lightweight Pieces in Aggregate	09/04/2020
C127	Specific Gravity and Absorption of Coarse Aggregate	09/01/1998
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/01/1998
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/18/2018
C136	Sieve Analysis of Fine and Coarse Aggregates	12/28/2023
C142	Clay Lumps and Friable Particles in Aggregate	09/04/2020



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Aggregate (Continued)

Standard:

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C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/04/2020
C566	Total Moisture Content of Aggregate by Drying	09/01/1998
C702	Reducing Samples of Aggregate to Testing Size	09/01/1998
D75	Sampling Aggregate	07/18/2018
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	07/18/2018



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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

10/09/2015

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

10/09/2015



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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	06/16/2025
R39	Making and Curing Concrete Test Specimens in the Laboratory	06/16/2025
R60	Sampling Freshly Mixed Concrete	06/16/2025
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	06/16/2025
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	06/16/2025
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	06/16/2025
T22	Compressive Strength of Cylindrical Concrete Specimens	06/16/2025
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	06/16/2025
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	06/16/2025
T119	Slump of Hydraulic Cement Concrete	06/16/2025
T121	Density (Unit Weight), Yield, and Air Content of Concrete	06/16/2025
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	06/16/2025
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	06/16/2025
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	06/16/2025
T231 (8000 psi and below)	Capping Cylindrical Concrete Specimens	06/16/2025
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	06/16/2025
T309	Temperature of Freshly Mixed Portland Cement Concrete	06/16/2025
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	09/01/1998
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	09/01/1998
C39	Compressive Strength of Cylindrical Concrete Specimens	09/01/1998
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	01/26/2016
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	09/01/1998
C138	Density (Unit Weight), Yield, and Air Content of Concrete	09/01/1998



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Concrete (Continued)

Standard:		Accredited Since:
C143	Slump of Hydraulic Cement Concrete	09/01/1998
C172	Sampling Freshly Mixed Concrete	09/01/1998
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	09/01/1998
C192	Making and Curing Concrete Test Specimens in the Laboratory	09/01/1998
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	09/01/1998
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	06/16/2025
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	01/26/2016
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/31/2012
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	12/02/2024
C642	Density, Absorption, and Voids in Hardened Concrete	01/26/2016
C1064	Temperature of Freshly Mixed Portland Cement Concrete	09/01/1998
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	04/23/2012
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	06/16/2025
C1542	Measuring Length of Concrete Cores	01/26/2016
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	06/16/2025



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Masonry

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C140 (Full-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	07/08/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/16/2025
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	06/16/2025
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	06/16/2025
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	06/16/2025
C1019	Sampling and Testing Grout	06/16/2025
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	07/08/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	01/26/2016