Certificate of Accreditation

Froehling & Robertson, Incorporated

in

Columbia, Maryland, 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

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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	10/15/1998
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	09/20/2018
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	05/29/2015
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	09/11/2026
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/10/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/20/2018
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/29/2015
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/11/2026
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011

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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)	05/18/2018
T355	Density of Bituminous Concrete In Place by Nuclear Methods	11/12/2020
D2726 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	10/13/2017
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	11/12/2020

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Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/18/2018
T88	Particle Size Analysis of Soils by Hydrometer	**Suspended**
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	05/18/2018
T90	Plastic Limit of Soils (Atterberg Limits)	05/18/2018
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/18/2018
T100	Specific Gravity of Soils	05/18/2018
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/18/2018
T191	Density of Soil In-Place by the Sand Cone Method	05/18/2018
T193	The California Bearing Ratio	05/18/2018
T265	Laboratory Determination of Moisture Content of Soils	05/18/2018
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/18/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	10/15/1998
D422	Particle Size Analysis of Soils by Hydrometer	**Suspended**
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	10/15/1998
D854	Specific Gravity of Soils	10/15/1998
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	10/15/1998
D1556	Density of Soil In-Place by the Sand Cone Method	05/18/2018
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	10/15/1998
D1883	The California Bearing Ratio	10/15/1998
D2216	Laboratory Determination of Moisture Content of Soils	10/15/1998
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	10/15/1998
D2488	Description and Identification of Soils (Visual-Manual Procedure)	10/15/1998
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	10/15/1998

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Soil (Continued)

Standard:	Accredited Since:
D4318 Plastic Limit of Soils (Atterberg Limits)	10/15/1998
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	10/15/1998

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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	09/11/2026
R90	Sampling Aggregate	09/11/2026
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	09/11/2026
T19	Bulk Density (“Unit Weight”) and Voids in Aggregate	09/11/2026
T27	Sieve Analysis of Fine and Coarse Aggregates	09/11/2026
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/11/2026
T85	Specific Gravity and Absorption of Coarse Aggregate	09/11/2026
T112	Clay Lumps and Friable Particles in Aggregate	09/11/2026
T255	Total Moisture Content of Aggregate by Drying	09/11/2026
C29	Bulk Density (“Unit Weight”) and Voids in Aggregate	12/30/2004
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	12/30/2004
C127	Specific Gravity and Absorption of Coarse Aggregate	12/30/2004
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/20/2018
C136	Sieve Analysis of Fine and Coarse Aggregates	09/05/2012
C142	Clay Lumps and Friable Particles in Aggregate	09/11/2026
C566	Total Moisture Content of Aggregate by Drying	12/30/2004
C702	Reducing Samples of Aggregate to Testing Size	12/30/2004
D75	Sampling Aggregate	09/11/2026
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	09/11/2026

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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	07/05/2011
E736 Cohesion/Adhesion of Sprayed Fire-Resistive MaterialsApplied to Structural Members	07/05/2011

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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	09/11/2026
R60	Sampling Freshly Mixed Concrete	09/11/2026
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	11/12/2026
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/12/2026
T22	Compressive Strength of Cylindrical Concrete Specimens	09/11/2026
T24 (Drilling Cores of Concrete)	Drilling Cores of Concrete	09/11/2026
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	09/11/2026
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	09/11/2026
T119	Slump of Hydraulic Cement Concrete	09/11/2026
T121	Density (Unit Weight), Yield, and Air Content of Concrete	09/11/2026
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	09/11/2026
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	09/11/2026
T231 (6000 psi and below)	Capping Cylindrical Concrete Specimens	09/11/2026
T309	Temperature of Freshly Mixed Portland Cement Concrete	09/11/2026
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	10/15/1998
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	10/15/1998
C39	Compressive Strength of Cylindrical Concrete Specimens	10/15/1998
C42 (Drilling Cores of Concrete)	Drilling Cores of Concrete	09/11/2026
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	09/11/2026
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	10/15/1998
C138	Density (Unit Weight), Yield, and Air Content of Concrete	10/15/1998
C143	Slump of Hydraulic Cement Concrete	10/15/1998
C172	Sampling Freshly Mixed Concrete	10/15/1998

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Concrete (Continued)

Standard:		Accredited Since:
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	10/15/1998
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	10/15/1998
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	09/05/2012
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	09/11/2026
C642	Density, Absorption, and Voids in Hardened Concrete	09/11/2026
C803	Penetration Resistance of Hardened Concrete	09/11/2026
C1064	Temperature of Freshly Mixed Portland Cement Concrete	10/15/1998
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	09/11/2026
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	09/05/2012
C1542	Measuring Length of Concrete Cores	09/11/2026
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)	09/11/2026
C1604	Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete	09/11/2026

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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	06/17/2020
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	06/17/2020
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	06/17/2020
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	11/12/2026
C1019	Sampling and Testing Grout	06/17/2020
C1314 (Prisms Constructed of Reduced-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	09/11/2026
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	09/11/2026

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