Certificate of Accreditation

Froehling & Robertson, Incorporated

in

Crozet, 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).

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	02/28/2012
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	02/28/2012
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/28/2012
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	05/09/2016
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/16/2013
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/16/2013
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/09/2016

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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)	02/11/2016
T355	Density of Bituminous Concrete In Place by Nuclear Methods	06/18/2026
D2726 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	02/11/2016
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	05/02/2013

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Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/02/2013
T88	Particle Size Analysis of Soils by Hydrometer	05/02/2013
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	05/02/2013
T90	Plastic Limit of Soils (Atterberg Limits)	05/02/2013
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/02/2013
T100	Specific Gravity of Soils	05/02/2013
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/02/2013
T193	The California Bearing Ratio	05/02/2013
T265	Laboratory Determination of Moisture Content of Soils	05/02/2013
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/02/2013
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/02/2013
D422	Particle Size Analysis of Soils by Hydrometer	05/02/2013
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/02/2013
D854	Specific Gravity of Soils	05/02/2013
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	05/02/2013
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/02/2013
D1883	The California Bearing Ratio	05/02/2013
D2216	Laboratory Determination of Moisture Content of Soils	05/02/2013
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	05/02/2013
D2488	Description and Identification of Soils (Visual-Manual Procedure)	05/02/2013
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	05/02/2013
D4318	Plastic Limit of Soils (Atterberg Limits)	05/02/2013
D4643	Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	05/02/2013

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Soil (Continued)

Standard:	Accredited Since:
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/02/2013

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Aggregate

Standard:	Accredited Since:
R76 Reducing Samples of Aggregate to Testing Size	01/10/2019
T11 Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	01/10/2019
T21 Organic Impurities in Fine Aggregates for Concrete	01/10/2019
T27 Sieve Analysis of Fine and Coarse Aggregates	01/10/2019
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	01/10/2019
T85 Specific Gravity and Absorption of Coarse Aggregate	01/10/2019
T255 Total Moisture Content of Aggregate by Drying	01/10/2019
C40 Organic Impurities in Fine Aggregates for Concrete	02/28/2012
C117 Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	02/28/2012
C127 Specific Gravity and Absorption of Coarse Aggregate	02/28/2012
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/28/2012
C136 Sieve Analysis of Fine and Coarse Aggregates	02/28/2012
C566 Total Moisture Content of Aggregate by Drying	02/28/2012
C702 Reducing Samples of Aggregate to Testing Size	02/28/2012

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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	01/10/2019
R60	Sampling Freshly Mixed Concrete	01/10/2019
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	01/10/2019
T22	Compressive Strength of Cylindrical Concrete Specimens	01/10/2019
T119	Slump of Hydraulic Cement Concrete	01/10/2019
T121	Density (Unit Weight), Yield, and Air Content of Concrete	01/10/2019
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	01/10/2019
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	01/10/2019
T309	Temperature of Freshly Mixed Portland Cement Concrete	01/10/2019
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	12/16/2013
C39	Compressive Strength of Cylindrical Concrete Specimens	02/28/2012
C138	Density (Unit Weight), Yield, and Air Content of Concrete	02/28/2012
C143	Slump of Hydraulic Cement Concrete	02/28/2012
C172	Sampling Freshly Mixed Concrete	02/28/2012
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/28/2012
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	02/28/2012
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/28/2012
C1064	Temperature of Freshly Mixed Portland Cement Concrete	02/28/2012
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/28/2012

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