



# CERTIFICATE OF ACCREDITATION



## Froehling & Robertson, Incorporated

in

### Roanoke, 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](http://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 1:43 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](http://aashtoresource.org/aap/accreditation-directory)



# SCOPE OF AASHTO ACCREDITATION FOR:

Froehling & Robertson, Incorporated

in Roanoke, Virginia, USA

## Quality Management System

### Standard:

### Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	04/26/2011
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	04/26/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	07/22/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	07/22/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/22/2018
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	04/26/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/26/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/22/2011
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/14/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/26/2011



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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)	01/22/2018
D2726 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	01/22/2018



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/26/2011
T88	Particle Size Analysis of Soils by Hydrometer	04/26/2011
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	04/26/2011
T90	Plastic Limit of Soils (Atterberg Limits)	04/26/2011
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/26/2011
T100	Specific Gravity of Soils	04/26/2011
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/26/2011
T191	Density of Soil In-Place by the Sand Cone Method	04/26/2011
T193	The California Bearing Ratio	04/26/2011
T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	11/13/2015
T265	Laboratory Determination of Moisture Content of Soils	04/26/2011
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	04/26/2011
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/26/2011
D422	Particle Size Analysis of Soils by Hydrometer	04/26/2011
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/26/2011
D854	Specific Gravity of Soils	04/26/2011
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	04/26/2011
D1556	Density of Soil In-Place by the Sand Cone Method	04/26/2011
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/26/2011
D1883	The California Bearing Ratio	04/26/2011
D2216	Laboratory Determination of Moisture Content of Soils	04/26/2011
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	04/26/2011
D2488	Description and Identification of Soils (Visual-Manual Procedure)	04/26/2011



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## Soil (Continued)

**Standard:**

**Accredited Since:**

D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	04/26/2011
D4318 Plastic Limit of Soils (Atterberg Limits)	11/13/2015
D4718 Oversize Particle Correction	11/13/2015
D4944 Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	11/13/2015
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	04/26/2011



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## Rock

**Standard:**

**Accredited Since:**

D7012 (Method C without D4543 sample preparation) Compressive Strength of Rock Core Specimens (Method C without D4543 preparation)

06/28/2013



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## Aggregate

### Standard:

### Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	04/26/2011
R90	Sampling Aggregate	11/13/2015
T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	04/26/2011
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	04/26/2011
T21	Organic Impurities in Fine Aggregates for Concrete	04/26/2011
T27	Sieve Analysis of Fine and Coarse Aggregates	04/26/2011
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	04/26/2011
T85	Specific Gravity and Absorption of Coarse Aggregate	04/26/2011
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/26/2011
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	04/26/2011
T255	Total Moisture Content of Aggregate by Drying	04/26/2011
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	04/26/2011
C40	Organic Impurities in Fine Aggregates for Concrete	04/26/2011
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	04/26/2011
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	04/26/2011
C127	Specific Gravity and Absorption of Coarse Aggregate	04/26/2011
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	04/26/2011
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/26/2011
C136	Sieve Analysis of Fine and Coarse Aggregates	04/26/2011
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	06/28/2013
C566	Total Moisture Content of Aggregate by Drying	04/26/2011
C702	Reducing Samples of Aggregate to Testing Size	04/26/2011
D75	Sampling Aggregate	11/13/2015



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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	02/11/2014
R60	Sampling Freshly Mixed Concrete	02/11/2014
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	02/11/2014
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/11/2014
T22	Compressive Strength of Cylindrical Concrete Specimens	07/22/2011
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	07/22/2011
T119	Slump of Hydraulic Cement Concrete	02/11/2014
T121	Density (Unit Weight), Yield, and Air Content of Concrete	02/11/2014
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	02/11/2014
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/11/2014
T231 (5000 psi and below)	Capping Cylindrical Concrete Specimens	09/26/2018
T309	Temperature of Freshly Mixed Portland Cement Concrete	02/11/2014
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	07/22/2011
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	07/22/2011
C39	Compressive Strength of Cylindrical Concrete Specimens	07/22/2011
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	07/22/2011
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/22/2011
C143	Slump of Hydraulic Cement Concrete	07/22/2011
C172	Sampling Freshly Mixed Concrete	07/22/2011
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/22/2011
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/22/2011
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/11/2014
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	09/26/2018



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## Concrete (Continued)

**Standard:**

**Accredited Since:**

C1064	Temperature of Freshly Mixed Portland Cement Concrete	07/22/2011
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	07/22/2011



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## Masonry

**Standard:**

**Accredited Since:**

C140 (Full-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	06/23/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/11/2014
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	09/26/2018
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	07/22/2011
C1019	Sampling and Testing Grout	07/22/2011
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	07/22/2011