



# CERTIFICATE OF ACCREDITATION



## Froehling & Robertson, Incorporated

in

**Fredericksburg, 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)).



---

Jim Tymon,  
AASHTO Executive Director



---

Matt Linneman  
AASHTO COMP Chair



## SCOPE OF AASHTO ACCREDITATION FOR:

Froehling & Robertson, Incorporated  
in Fredericksburg, Virginia, USA

## Quality Management System

### Standard:

### Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	11/26/2013
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	12/16/2013
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	11/26/2013
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	12/16/2013
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/16/2016
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/26/2013
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/16/2016



# SCOPE OF AASHTO ACCREDITATION FOR:

Froehling & Robertson, Incorporated  
in Fredericksburg, Virginia, USA

## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	06/15/2018
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	12/16/2013
T90	Plastic Limit of Soils (Atterberg Limits)	12/16/2013
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	12/16/2013
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	12/16/2013
T193	The California Bearing Ratio	06/15/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/16/2013
D422	Particle Size Analysis of Soils by Hydrometer	12/16/2013
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	12/16/2013
D854	Specific Gravity of Soils	12/16/2013
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	12/16/2013
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	12/16/2013
D1883	The California Bearing Ratio	12/16/2013
D2216	Laboratory Determination of Moisture Content of Soils	12/16/2013
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	12/16/2013
D2488	Description and Identification of Soils (Visual-Manual Procedure)	12/16/2013
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	12/16/2013
D4318	Plastic Limit of Soils (Atterberg Limits)	12/16/2013
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	12/16/2013



# SCOPE OF AASHTO ACCREDITATION FOR:

Froehling & Robertson, Incorporated  
in Fredericksburg, Virginia, USA

## Aggregate

**Standard:****Accredited Since:**

C117 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	12/16/2013
C127 Specific Gravity and Absorption of Coarse Aggregate	12/16/2013
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	12/16/2013
C136 Sieve Analysis of Fine and Coarse Aggregates	12/16/2013
C566 Total Moisture Content of Aggregate by Drying	12/16/2013
C702 Reducing Samples of Aggregate to Testing Size	12/16/2013



## SCOPE OF AASHTO ACCREDITATION FOR:

Froehling & Robertson, Incorporated  
in Fredericksburg, Virginia, USA

### Sprayed Fire-Resistive Material

#### Standard:

#### Accredited Since:

E605 Thickness and Density of Sprayed Fire-Resistive Material(SFRM) Applied to Structural Members

06/15/2018

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

06/15/2018



# SCOPE OF AASHTO ACCREDITATION FOR:

Froehling & Robertson, Incorporated  
in Fredericksburg, Virginia, USA

## Concrete

**Standard:****Accredited Since:**

C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/26/2013
C39	Compressive Strength of Cylindrical Concrete Specimens	11/26/2013
C138	Density (Unit Weight), Yield, and Air Content of Concrete	11/26/2013
C143	Slump of Hydraulic Cement Concrete	11/26/2013
C172	Sampling Freshly Mixed Concrete	11/26/2013
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	11/26/2013
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	11/26/2013
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	11/26/2013
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	06/06/2025
C1064	Temperature of Freshly Mixed Portland Cement Concrete	11/26/2013
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	11/26/2013