



# CERTIFICATE OF ACCREDITATION



## Froehling & Robertson, Inc.

in

### Chesapeake, 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 04/22/2026 at 2:55 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:

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## Quality Management System

### Standard:

### Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/01/2002
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	09/06/2011
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	02/02/2017
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/06/2011
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/06/2011
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/09/2013
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/09/2013



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## Asphalt Mixture

### Standard:

### Accredited Since:

D2726 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	11/17/2020
D2950 Density of Bituminous Concrete In Place by Nuclear Methods	11/17/2020



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## Soil

### Standard:

### Accredited Since:

D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/30/2003
D422 Particle Size Analysis of Soils by Hydrometer	<b>Suspended</b>
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/30/2003
D854 Specific Gravity of Soils	04/20/2026
D1140 Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	01/30/2003
D1556 Density of Soil In-Place by the Sand Cone Method	11/17/2020
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/30/2003
D1883 The California Bearing Ratio	01/30/2003
D2216 Laboratory Determination of Moisture Content of Soils	01/30/2003
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/30/2003
D2488 Description and Identification of Soils (Visual-Manual Procedure)	01/30/2003
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	01/30/2003
D4318 Plastic Limit of Soils (Atterberg Limits)	01/30/2003
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	05/01/2018
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/30/2003



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## Aggregate

### Standard:

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C29 Bulk Density ("Unit Weight") and Voids in Aggregate	09/06/2011
C40 Organic Impurities in Fine Aggregates for Concrete	03/01/2002
C117 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	03/01/2002
C127 Specific Gravity and Absorption of Coarse Aggregate	03/01/2002
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	03/01/2002
C136 Sieve Analysis of Fine and Coarse Aggregates	03/01/2002
C566 Total Moisture Content of Aggregate by Drying	03/01/2002
C702 Reducing Samples of Aggregate to Testing Size	03/01/2002
D75 Sampling Aggregate	06/16/2014



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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

04/09/2013

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

04/09/2013



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## Iron and Steel

### Standard:

### Accredited Since:

A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	11/18/2016
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	11/18/2016
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	11/18/2016
A615-E290 Carbon-Steel Bars, Deformed and Plain: Bend Test	09/06/2011
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	11/08/2021
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	11/08/2021
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	11/08/2021
A706-E290 Low Alloy Steel Bars, Deformed and Plain: Bend Test	11/08/2021
F3125 Externally Threaded Fasteners (Bolts): Rotational Capacity	05/01/2018



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## Concrete

<b>Standard:</b>		<b>Accredited Since:</b>
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	03/01/2002
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	03/01/2002
C39	Compressive Strength of Cylindrical Concrete Specimens	03/01/2002
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	03/01/2002
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	03/01/2002
C138	Density (Unit Weight), Yield, and Air Content of Concrete	03/01/2002
C143	Slump of Hydraulic Cement Concrete	03/01/2002
C172	Sampling Freshly Mixed Concrete	03/01/2002
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	03/01/2002
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	09/06/2011
C192	Making and Curing Concrete Test Specimens in the Laboratory	09/06/2011
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	03/01/2002
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	09/06/2011
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	11/08/2021
C1064	Temperature of Freshly Mixed Portland Cement Concrete	03/01/2002
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	09/06/2011
C1611	Slump Flow of Self-Consolidating Concrete	09/06/2011
C1621	Passing Ability of Self-Consolidating Concrete by J-Ring	08/26/2025



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## Masonry

**Standard:**

**Accredited Since:**

C140 (Reduced-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	07/24/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/16/2014
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	01/24/2019
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	09/06/2011
C1019	Sampling and Testing Grout	09/06/2011
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	09/06/2011