



CERTIFICATE OF ACCREDITATION



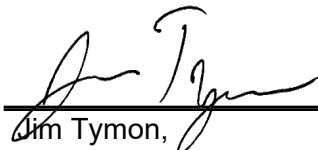
ECS Mid-Atlantic, LLC - an Engineering Consulting Services, Ltd. company

in

Chantilly, 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:

ECS Mid-Atlantic, LLC - an Engineering Consulting Services, Ltd. company
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Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	01/28/2005
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	06/18/2015
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 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/18/2015
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/02/2011
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/09/2015
E329 (Steel Inspection)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/23/2018



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/28/2024
T88	Particle Size Analysis of Soils by Hydrometer	01/28/2024
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	01/28/2024
T90	Plastic Limit of Soils (Atterberg Limits)	01/28/2024
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/28/2024
T100	Specific Gravity of Soils	01/28/2024
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/28/2024
T193	The California Bearing Ratio	01/28/2024
T208	Unconfined Compressive Strength of Cohesive Soil	01/28/2024
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	01/28/2024
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	01/28/2024
T265	Laboratory Determination of Moisture Content of Soils	01/28/2024
T267	Determination of Organic Content in Soils by Loss on Ignition	01/28/2024
T289	pH of Soils for Corrosion Testing	01/28/2024
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/28/2024
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/02/2011
D422	Particle Size Analysis of Soils by Hydrometer	01/28/2005
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/28/2005
D854	Specific Gravity of Soils	10/22/2020
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	01/28/2005
D1556	Density of Soil In-Place by the Sand Cone Method	01/28/2024
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/28/2005
D1883	The California Bearing Ratio	01/28/2005



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Soil (Continued)

Standard:	Accredited Since:
D2166 Unconfined Compressive Strength of Cohesive Soil	01/28/2005
D2216 Laboratory Determination of Moisture Content of Soils	01/28/2005
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	01/28/2005
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/28/2005
D2488 Description and Identification of Soils (Visual-Manual Procedure)	01/28/2005
D2974 Determination of Organic Content in Soils by Loss on Ignition	05/02/2011
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	01/28/2005
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	01/28/2005
D4318 Plastic Limit of Soils (Atterberg Limits)	01/28/2005
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	01/28/2005
D4718 Oversize Particle Correction	12/10/2015
D4829 Expansion Index of Soils	05/02/2011
D4972 pH Testing of Soils	05/02/2011
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	01/28/2005
D5334 Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe	01/28/2024
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	10/22/2020
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/28/2005
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	10/22/2020
G57 Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method	01/28/2024



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Rock

Standard:

Accredited Since:

D4543	Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	01/28/2024
D7012 (Method C)	Compressive Strength of Rock Core Specimens (Method C)	01/28/2024



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Aggregate

Standard:

Accredited Since:

T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	01/28/2024
T85	Specific Gravity and Absorption of Coarse Aggregate	01/28/2024
C127	Specific Gravity and Absorption of Coarse Aggregate	03/29/2005
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	01/28/2024



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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

05/02/2011

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

05/02/2011



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Iron and Steel

Standard:

Accredited Since:

F3125 Externally Threaded Fasteners (Bolts): Rotational Capacity

03/23/2018



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Concrete

Standard:		Accredited Since:
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	02/21/2019
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/21/2019
C39	Compressive Strength of Cylindrical Concrete Specimens	03/29/2005
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	03/29/2005
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/21/2019
C138	Density (Unit Weight), Yield, and Air Content of Concrete	03/29/2005
C143	Slump of Hydraulic Cement Concrete	03/29/2005
C172	Sampling Freshly Mixed Concrete	03/29/2005
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	03/29/2005
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	03/29/2005
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/07/2012
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	11/17/2025
C1064	Temperature of Freshly Mixed Portland Cement Concrete	03/29/2005
C1231 (12000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	11/17/2025
C1542	Measuring Length of Concrete Cores	05/12/2014



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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	02/21/2019
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	04/27/2022
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	04/27/2022
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	04/27/2022
C1019	Sampling and Testing Grout	02/21/2019