



CERTIFICATE OF ACCREDITATION



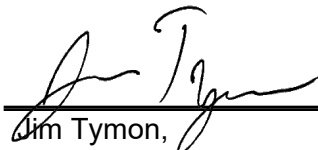
ECS Florida, LLC - an Engineering Consulting Services, Ltd. company

in

Jacksonville, Florida, 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 Florida, LLC - an Engineering Consulting Services, Ltd. company
in Jacksonville, Florida, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	09/07/2010
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	11/17/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	07/07/2026
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	07/07/2026
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	01/10/2011
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/07/2026
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/03/2014
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/07/2026



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Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	07/07/2026
R97	Sampling Bituminous Paving Mixtures	07/07/2026
T30	Mechanical Analysis of Extracted Aggregate	07/07/2026
T166 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	02/23/2016
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	07/07/2026
T343	Density of Bituminous Paving Mixtures in Place by the Electromagnetic Surface Contact Methods	08/10/2026
T355	Density of Bituminous Concrete In Place by Nuclear Methods	04/09/2018
D2726 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	02/23/2016



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Soil

Standard:

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R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/07/2010
T88	Particle Size Analysis of Soils by Hydrometer	09/07/2010
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	09/07/2010
T90	Plastic Limit of Soils (Atterberg Limits)	09/07/2010
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/07/2010
T100	Specific Gravity of Soils	05/14/2021
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/07/2010
T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	09/07/2010
T265	Laboratory Determination of Moisture Content of Soils	09/07/2010
T267	Determination of Organic Content in Soils by Loss on Ignition	09/07/2010
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/07/2010
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/07/2010
D422	Particle Size Analysis of Soils by Hydrometer	09/07/2010
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/07/2010
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	09/07/2010
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/07/2010
D1883	The California Bearing Ratio	07/07/2026
D2216	Laboratory Determination of Moisture Content of Soils	09/07/2010
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	09/07/2010
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	09/07/2010
D2488	Description and Identification of Soils (Visual-Manual Procedure)	09/07/2010
D2974	Determination of Organic Content in Soils by Loss on Ignition	09/07/2010
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	09/07/2010



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Soil (Continued)

Standard:		Accredited Since:
D4318	Plastic Limit of Soils (Atterberg Limits)	09/07/2010
D4718	Oversize Particle Correction	08/10/2026
D4944	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	09/07/2010
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	07/07/2026
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/07/2010
FM1-T180	Moisture-Density Relations of Soils for Limerock Bearing Ratio	04/09/2018
FM5-515	Limerock Bearing Ratio	09/06/2011
FM5-550	pH of Soil and Water	03/21/2023
FM5-551	Minimum Resistivity of Soil and Water	03/21/2023
FM5-552	Chloride in Soil and Water	03/21/2023
FM5-553	Sulfate in Soil and Water	03/21/2023



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Aggregate

Standard:

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R76 Reducing Samples of Aggregate to Testing Size	09/07/2010
R90 Sampling Aggregate	10/07/2013
T11 Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	09/07/2010
T19 Bulk Density ("Unit Weight") and Voids in Aggregate	09/07/2010
T27 Sieve Analysis of Fine and Coarse Aggregates	09/07/2010
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/07/2010
T85 Specific Gravity and Absorption of Coarse Aggregate	09/07/2010
T255 Total Moisture Content of Aggregate by Drying	09/07/2010
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	09/07/2010
C117 Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	09/07/2010
C127 Specific Gravity and Absorption of Coarse Aggregate	09/07/2010
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/07/2010
C136 Sieve Analysis of Fine and Coarse Aggregates	09/07/2010
C566 Total Moisture Content of Aggregate by Drying	09/07/2010
C702 Reducing Samples of Aggregate to Testing Size	09/07/2010
D75 Sampling Aggregate	10/07/2013



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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

09/07/2010

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

09/07/2010



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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	06/18/2019
R60	Sampling Freshly Mixed Concrete	06/18/2019
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	06/18/2019
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	06/18/2019
T22	Compressive Strength of Cylindrical Concrete Specimens	06/18/2019
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	06/18/2019
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	06/18/2019
T119	Slump of Hydraulic Cement Concrete	06/18/2019
T121	Density (Unit Weight), Yield, and Air Content of Concrete	06/18/2019
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	06/18/2019
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	06/18/2019
T231 (6000 psi and below)	Capping Cylindrical Concrete Specimens	01/14/2026
T309	Temperature of Freshly Mixed Portland Cement Concrete	06/18/2019
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	11/17/2011
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/17/2011
C39	Compressive Strength of Cylindrical Concrete Specimens	11/17/2011
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	04/28/2017
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/17/2011
C138	Density (Unit Weight), Yield, and Air Content of Concrete	11/17/2011
C143	Slump of Hydraulic Cement Concrete	11/17/2011
C172	Sampling Freshly Mixed Concrete	11/17/2011
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	11/17/2011
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	11/17/2011



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Concrete (Continued)

Standard:		Accredited Since:
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	11/17/2011
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	01/14/2026
C1064	Temperature of Freshly Mixed Portland Cement Concrete	11/17/2011
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	11/17/2011
C1542	Measuring Length of Concrete Cores	04/28/2017