



CERTIFICATE OF ACCREDITATION



Falcon Engineering, Inc.

in


Cary, North Carolina, 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](https://www.aashtoresource.org)).



Jim Tymon,
AASHTO Executive Director



Moe Jamshidi,
AASHTO COMP Chair

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SCOPE OF AASHTO ACCREDITATION FOR:

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Quality Management System

Standard:

Accredited Since:

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	02/15/1997
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	06/09/2015
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	08/24/2012
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
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	06/09/2015
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/24/2012
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	06/28/2017



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Asphalt Mixture

Standard:

Accredited Since:

D2041 Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	03/02/2004
D2726 Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	03/02/2004
D3203 Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	03/02/2004
D3549 Thickness or Height of Compacted Bituminous Paving Mixture Specimens	11/24/2021
D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	03/02/2004
D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	03/02/2004



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Soil

Standard:

Accredited Since:

T100	Specific Gravity of Soils	05/25/2011
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/17/2003
D422	Particle Size Analysis of Soils by Hydrometer	03/17/2003
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/17/2003
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	03/17/2003
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/17/2003
D1883	The California Bearing Ratio	03/17/2003
D2216	Laboratory Determination of Moisture Content of Soils	03/17/2003
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	05/25/2011
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	03/17/2003
D4318	Plastic Limit of Soils (Atterberg Limits)	03/17/2003



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Aggregate

Standard:

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C40 Organic Impurities in Fine Aggregates for Concrete	02/15/1997
C117 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	02/15/1997
C127 Specific Gravity and Absorption of Coarse Aggregate	02/15/1997
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/15/1997
C136 Sieve Analysis of Fine and Coarse Aggregates	02/15/1997
C566 Total Moisture Content of Aggregate by Drying	07/30/2013
C702 Reducing Samples of Aggregate to Testing Size	02/15/1997
D75 Sampling Aggregate	07/30/2013



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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

05/25/2011

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

04/18/2017



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Concrete

Standard:		Accredited Since:
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	06/19/2012
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	06/19/2012
C39	Compressive Strength of Cylindrical Concrete Specimens	08/01/1997
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	01/05/2022
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	06/19/2012
C138	Density (Unit Weight), Yield, and Air Content of Concrete	08/01/1997
C143	Slump of Hydraulic Cement Concrete	08/01/1997
C172	Sampling Freshly Mixed Concrete	08/01/1997
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	03/19/2014
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	08/01/1997
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	01/05/2022
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/19/2012
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	12/28/2018
C1064	Temperature of Freshly Mixed Portland Cement Concrete	08/01/1997
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	06/19/2012
C1542	Measuring Length of Concrete Cores	01/05/2022