



# CERTIFICATE OF ACCREDITATION



**Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.**

in

**Newburgh, New York, 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://aashtoresource.org)).

  
Jim Tymon,  
AASHTO Executive Director

  
Matt Linneman,  
AASHTO COMP Chair

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# 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	04/14/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	09/29/2011
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	03/13/2013
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/12/2019
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/13/2013
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/09/2018



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/15/2001
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	02/15/2001
T90	Plastic Limit of Soils (Atterberg Limits)	02/15/2001
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/15/2001
T100	Specific Gravity of Soils	02/15/2001
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	02/15/2001
T265	Laboratory Determination of Moisture Content of Soils	02/15/2001
T267	Determination of Organic Content in Soils by Loss on Ignition	03/13/2013
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	03/13/2013
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/15/2001
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/15/2001
D854	Specific Gravity of Soils	02/15/2001
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	02/15/2001
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	02/15/2001
D2216	Laboratory Determination of Moisture Content of Soils	02/15/2001
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	03/13/2013
D2488	Description and Identification of Soils (Visual-Manual Procedure)	03/13/2013
D2974	Determination of Organic Content in Soils by Loss on Ignition	03/13/2013
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	02/15/2001
D4318	Plastic Limit of Soils (Atterberg Limits)	09/21/2015
D4972	pH Testing of Soils	03/13/2013
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	03/13/2013
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	03/13/2013



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## Rock

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

D5731 Point Load Strength Index of Rock

03/13/2013



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## Aggregate

Standard:	Accredited Since:
C40 Organic Impurities in Fine Aggregates for Concrete	04/15/1997
C566 Total Moisture Content of Aggregate by Drying	04/15/1997
C702 Reducing Samples of Aggregate to Testing Size	04/15/1997



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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

02/17/2011

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

03/13/2013



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## Concrete

Standard:		Accredited Since:
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	04/15/1997
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	04/15/1997
C39	Compressive Strength of Cylindrical Concrete Specimens	04/15/1997
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	04/15/1997
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/15/1997
C138	Density (Unit Weight), Yield, and Air Content of Concrete	04/15/1997
C143	Slump of Hydraulic Cement Concrete	04/15/1997
C172	Sampling Freshly Mixed Concrete	04/15/1997
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	04/15/1997
C192	Making and Curing Concrete Test Specimens in the Laboratory	03/12/2014
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	04/15/1997
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	09/29/2011
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	10/07/2025
C803	Penetration Resistance of Hardened Concrete	03/12/2014
C805	Rebound Number of Hardened Concrete	03/12/2014
C1064	Temperature of Freshly Mixed Portland Cement Concrete	04/15/1997
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	09/29/2011
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	09/29/2011
C1542	Measuring Length of Concrete Cores	03/09/2022



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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	11/08/2016
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	02/12/2019
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	03/12/2014
C1019	Sampling and Testing Grout	12/29/2016
C1314 (Prisms Constructed of Reduced-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	10/07/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	09/29/2011