



# CERTIFICATE OF ACCREDITATION



## Ackenheil Engineers, Inc.

in

### Pittsburgh, Pennsylvania, 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 'Moe Jamshidi', written over a horizontal line.

Moe Jamshidi,  
AASHTO COMP Chair

This certificate was generated on 04/29/2020 at 10:42 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	12/01/1992
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/03/2013
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	03/10/2015
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/04/2018
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/09/2018



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## Asphalt Mixture

### Standard:

### Accredited Since:

T166 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	12/20/2016
T168	Sampling Bituminous Paving Mixtures	05/04/2018
T355	Density of Bituminous Concrete In Place by Nuclear Methods	05/04/2018
D979	Sampling Bituminous Paving Mixtures	05/04/2018
D2726 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	12/20/2016
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	05/04/2018



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/01/1992
T88	Particle Size Analysis of Soils by Hydrometer	04/29/2020
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	12/01/1992
T90	Plastic Limit of Soils (Atterberg Limits)	12/01/1992
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	12/01/1992
T100	Specific Gravity of Soils	05/13/2011
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	12/01/1992
T193	The California Bearing Ratio	12/01/1992
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	05/13/2011
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	05/13/2011
T265	Laboratory Determination of Moisture Content of Soils	12/01/1992
T288	Minimum Soil Resistivity	02/09/2018
T289	pH of Soils for Corrosion Testing	02/09/2018
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/09/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/01/1992
D422	Particle Size Analysis of Soils by Hydrometer	04/29/2020
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	12/01/1992
D854	Specific Gravity of Soils	05/13/2011
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	06/14/2014
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	12/01/1992
D1883	The California Bearing Ratio	12/01/1992
D2216	Laboratory Determination of Moisture Content of Soils	12/01/1992
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	05/13/2011



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## Soil (Continued)

### Standard:

### Accredited Since:

D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	12/01/1992
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	05/13/2011
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	12/01/1992
D4318 Plastic Limit of Soils (Atterberg Limits)	12/01/1992
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/09/2018
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	02/09/2018



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## Rock

### Standard:

### Accredited Since:

D4644	Slake Durability of Shales and Weak Rocks	04/29/2020
D5731	Point Load Strength Index of Rock	04/29/2020
D7012 (without D4543 sample preparation)	Compressive Strength of Rock Core Specimens (Method C without D4543 preparation)	02/09/2018



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## Concrete

Standard:		Accredited Since:
C31	Making and Curing Concrete Test Specimens in the Field	12/28/2010
C39	Compressive Strength of Cylindrical Concrete Specimens	12/28/2010
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	12/28/2010
C138	Density (Unit Weight), Yield, and Air Content of Concrete	12/28/2010
C143	Slump of Hydraulic Cement Concrete	12/28/2010
C172	Sampling Freshly Mixed Concrete	12/28/2010
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	12/28/2010
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	12/28/2010
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	04/28/2014
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	12/28/2010
C1064	Temperature of Freshly Mixed Portland Cement Concrete	12/28/2010
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	12/28/2010