



# CERTIFICATE OF ACCREDITATION



## Professional Service Industries, Inc.

in

### Portland, Oregon, 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 08/06/2020 at 9:43 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	01/16/2020
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	02/07/2020
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/16/2020
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	04/07/2020
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	04/07/2020
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/16/2020
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/16/2020
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/16/2020
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/16/2020
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/16/2020
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/07/2020
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/07/2020
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/16/2020
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/16/2020



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## Asphalt Mixture

**Standard:**

**Accredited Since:**

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	01/16/2020
T30	Mechanical Analysis of Extracted Aggregate	01/16/2020
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	01/16/2020
T168	Sampling Bituminous Paving Mixtures	01/16/2020
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	01/16/2020
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	01/16/2020
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	01/16/2020
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	01/16/2020
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	01/16/2020
T355	Density of Bituminous Concrete In Place by Nuclear Methods	01/16/2020
D979	Sampling Bituminous Paving Mixtures	01/16/2020
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	01/16/2020
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	01/16/2020
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	01/16/2020
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	01/16/2020
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	01/16/2020
D3665	Random Sampling of Construction Materials	01/16/2020
D5444	Mechanical Analysis of Extracted Aggregate	01/16/2020
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	01/16/2020
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	01/16/2020



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/16/2020
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	01/16/2020
T90	Plastic Limit of Soils (Atterberg Limits)	01/16/2020
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/16/2020
T100	Specific Gravity of Soils	01/16/2020
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/16/2020
T265	Laboratory Determination of Moisture Content of Soils	01/16/2020
T267	Determination of Organic Content in Soils by Loss on Ignition	01/16/2020
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/16/2020
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/16/2020
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/16/2020
D854	Specific Gravity of Soils	01/16/2020
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	01/16/2020
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/16/2020
D1883	The California Bearing Ratio	01/16/2020
D2216	Laboratory Determination of Moisture Content of Soils	01/16/2020
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/16/2020
D2488	Description and Identification of Soils (Visual-Manual Procedure)	01/16/2020
D2974	Determination of Organic Content in Soils by Loss on Ignition	01/16/2020
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	01/16/2020
D4318	Plastic Limit of Soils (Atterberg Limits)	01/16/2020
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/16/2020
D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	01/16/2020



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## Soil (Continued)

**Standard:**

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G187 Soil Resistivity Using the Two-Electrode Soil Box

01/16/2020



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**Rock**

**Standard:**

**Accredited Since:**

D5240 Evaluation of Durability of Rock for Erosion Control Using Sodium Sulfate or Magnesium Sulfate	01/16/2020
D5312 Evaluation of Durability of Rock for Erosion Control Under Freezing and Thawing Conditions	01/16/2020
D5313 Durability of Rock for Erosion Control Under Wetting and Drying Conditions	01/16/2020



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## Aggregate

### Standard:

### Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	01/16/2020
R90	Sampling Aggregate	01/16/2020
T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	01/16/2020
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	01/16/2020
T21	Organic Impurities in Fine Aggregates for Concrete	01/16/2020
T27	Sieve Analysis of Fine and Coarse Aggregates	01/16/2020
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	01/16/2020
T85	Specific Gravity and Absorption of Coarse Aggregate	01/16/2020
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/16/2020
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	01/16/2020
T112	Clay Lumps and Friable Particles in Aggregate	01/16/2020
T113	Lightweight Pieces in Aggregate	01/16/2020
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	01/16/2020
T255	Total Moisture Content of Aggregate by Drying	01/16/2020
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	01/16/2020
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	01/16/2020
C40	Organic Impurities in Fine Aggregates for Concrete	01/16/2020
C70	Surface Moisture in Fine Aggregate	04/07/2020
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	01/16/2020
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	01/16/2020
C123	Lightweight Pieces in Aggregate	01/16/2020
C127	Specific Gravity and Absorption of Coarse Aggregate	01/16/2020
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	01/16/2020



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## Aggregate (Continued)

<b>Standard:</b>	<b>Accredited Since:</b>
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/16/2020
C136 Sieve Analysis of Fine and Coarse Aggregates	01/16/2020
C142 Clay Lumps and Friable Particles in Aggregate	01/16/2020
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/16/2020
C566 Total Moisture Content of Aggregate by Drying	01/16/2020
C702 Reducing Samples of Aggregate to Testing Size	01/16/2020
D75 Sampling Aggregate	01/16/2020
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	01/16/2020
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	01/16/2020
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	01/16/2020





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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

01/16/2020

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

01/16/2020



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## Iron and Steel

**Standard:**

F3125 Externally Threaded Fasteners (Bolts): Rotational Capacity

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01/16/2020



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## Concrete

Standard:		Accredited Since:
C31	Making and Curing Concrete Test Specimens in the Field	04/07/2020
C39	Compressive Strength of Cylindrical Concrete Specimens	04/07/2020
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	04/07/2020
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/07/2020
C138	Density (Unit Weight), Yield, and Air Content of Concrete	04/07/2020
C143	Slump of Hydraulic Cement Concrete	04/07/2020
C172	Sampling Freshly Mixed Concrete	04/07/2020
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	04/07/2020
C192	Making and Curing Concrete Test Specimens in the Laboratory	04/07/2020
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	04/07/2020
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	04/07/2020
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	04/07/2020
C1064	Temperature of Freshly Mixed Portland Cement Concrete	04/07/2020
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	04/07/2020
C1542	Measuring Length of Concrete Cores	04/07/2020



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## Masonry

**Standard:**

**Accredited Since:**

C140 (Concrete Masonry Units) Sampling and Testing Concrete Masonry Units and Related Units	04/07/2020
C1019 Sampling and Testing Grout	04/07/2020
C1314 Compressive Strength of Masonry Prisms	04/07/2020
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	04/07/2020