SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

PROFESSIONAL SERVICE INDUSTRIES, INC.
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Valid To: December 31, 2019 Certificate Number: 0147.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

CONSTRUCTION MATERIALS ENGINEERING

ASTM: C1077 (Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation);
C1093 (Standard Practice for Accreditation of Testing Agencies for Masonry);
D3666 (Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials);
D3740 (Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction);
E329 (Standard Specification for Agencies Engaged in Construction Inspection, Testing for Special Inspection);
E543 (Agencies Performing Nondestructive Testing)

AASHTO: R18 (Practice for Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories)

CONSTRUCTION MATERIALS TESTING

Test Method:	**Test Description:**
Aggregates:	
ASTM C29	Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C40	Organic Impurities in Fine Aggregates for Concrete
ASTM C70	Surface Moisture in Fine Aggregate
ASTM C88	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C117	Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
ASTM C142	Clay Lumps and Friable Particles in Aggregates

WITHDRAWN

Test Method:	**Test Description:**
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702	Reducing Samples of Aggregate to Testing Size
ASTM D75[1]	Sampling Aggregates
AASHTO T002	Sampling of Aggregates
AASHTO T011	Test for Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
AASHTO T019	Bulk Density ("Unit Weight") and Voids in Aggregate
AASHTO T021	Organic Impurities in Fine Aggregates for Concrete
AASHTO T027	Sieve Analysis of Fine and Coarse Aggregates
AASHTO T084	Specific Gravity and Absorption of Fine Aggregate
AASHTO T085	Specific Gravity and Absorption of Coarse Aggregate
AASHTO T096	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
AASHTO T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
AASHTO T248	Reducing Samples of Aggregate to Testing Size
AASHTO T255	Total Evaporable Moisture Content of Aggregate by Drying
AASHTO T304	Uncompacted Void Content of Fine Aggregate
Bituminous:	
ASTM D75[1]	Sampling Aggregates
ASTM D140/D140M[1]	Sampling Bituminous Materials
ASTM D979[1]	Sampling Bituminous Paving Mixtures
ASTM D2041	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2726	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D2950[1]	Density of Bituminous Concrete in Place by Nuclear Methods
ASTM D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
ASTM D3549[1]	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D3665	Random Sampling of Construction Materials
ASTM D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate
ASTM D5361[1]	Sampling Compacted Bituminous Mixtures for Laboratory Testing
ASTM D5444	Mechanical Size Analysis of Extracted Aggregate
ASTM D6307	Asphalt Content of Hot-Mix Asphalt by Ignition Method
ASTM D6926	Preparation of Bituminous Specimens Using Marshall Apparatus
ASTM D6927	Marshall Stability and Flow of Bituminous Mixtures
AASHTO T002	Test for Sampling of Aggregates
AASHTO T030	Mechanical Analysis of Extracted Aggregate
AASHTO T040	Sampling Bituminous Materials
AASHTO T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt (HMA) Using Saturated Surface-Dry Specimens
AASHTO T168[1]	Sampling Bituminous Paving Mixtures
AASHTO T172	Bituminous Mining Plant Inspection
AASHTO T209	Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt (HMA)

WITHDRAWN

Test Method:	**Test Description:**
AASHTO T245	Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus
AASHTO T308	Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method
WSDOT T209	Theoretical Maximum Specific Gravity and Density of Bituminus Paving Mixtures
Concrete:	
ASTM C31/C31M[1]	Making and Curing Concrete Test Specimens in the Field
ASTM C39/C39M	Compressive Strength of Cylindrical Concrete Specimens
ASTM C42/C42M	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C78/C78M[1]	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C138/C138M[1]	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C143/C143M[1]	Slump of Hydraulic-Cement Concrete
ASTM C172/C172M[1]	Sampling Freshly Mixed Concrete
ASTM C173[1]	Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C192/C192M	Making and Curing Concrete Test Specimens in the Laboratory
ASTM C231/C231M[1]	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C293/C293M	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)
ASTM C617	Capping Cylindrical Concrete Specimens
ASTM C642	Density, Absorption, and Voids in Hardened Concrete
ASTM C1064/C1064M[1]	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders
AASHTO T022	Compressive Strength of Cylindrical Concrete Specimens,
AASHTO T023[1]	Making and Curing Concrete Test Specimens in the Field
AASHTO T097	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
AASHTO T119[1]	Slump of Hydraulic Cement Concrete,
AASHTO T121[1]	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete,
AASHTO T126	Making and Curing Concrete Test Specimens in the Laboratory
AASHTO T141[1]	Sampling Freshly Mixed Concrete
AASHTO T152[1]	Air Content of Freshly Mixed Concrete by the Pressure Method
AASHTO T196[1]	Air Content of Freshly Mixed Concrete by the Volumetric Method
AASHTO T231	Capping Cylindrical Concrete Specimens
Fireproofing:	
ASTM E605[1]	Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members
ASTM E736[1]	Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members
Masonry:	
ASTM C109/C109M (Compressive Strength Only)	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
ASTM C140 (Section 7 Only)	Sampling and Testing Concrete Masonry Units and Related Units

WITHDRAWN

Test Method:	**Test Description:**
ASTM C780[1] (Compressive Strength Only & Field Preparation of Specimens[1])	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
ASTM C1019[1] (Compressive Strength Only & Field Preparation of Specimens[1])	Sampling and Testing Grout
ASTM C1314	Compressive Strength of Masonry Prisms
Soils:	
ASTM D421	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422[2]	Particle-Size Analysis of Soils (Withdrawn 2016)
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D1140	Amount of Material in Soils Finer than No. 200 (75-µm) Sieve
ASTM D1556[1]	Density and Unit Weight of Soil in Place by Sand-Cone Method
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate
ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488[1]	Description and Identification of Soils (Visual-Manual Procedure)
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D6938[1]	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
AASHTO T089	Determining the Liquid Limit of Soils
AASHTO T090	Determining the Plastic Limit and Plasticity Index of Soils
AASHTO T099	Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop
AASHTO T100	Specific Gravity of Soils
AASHTO T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test
AASHTO T180	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop
AASHTO T191[1]	Test for Density of Soil In-Place by the Sand-Cone Method
AASHTO T239[1]	Standard Method of Test for Moisture Contour of Soil and Soil-Aggregate In-Place by Nuclear Methods (Shallow Depth)
AASHTO T265	Laboratory Determination of Moisture Content of Soils
Steel (Shop & Field)[1]:	
AWS D1.1 Structural Welding Code (Clause 6, Inspection)	Fabrication & Erection – Visual Welding
AWS D1.3 Structural Welding Code (Clause 6, Inspection)	Welding of Sheet Steel – Visual Welding
AWS D1.4 Structural Welding Code (Clause 6, Inspection)	Welding of Reinforcing Steel – Visual Welding

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Test Method:	**Test Description:**
AWS D1.8 Structural Welding Code (Clause 7, Inspection)	Welding of Seismic Supports – Visual Welding
AISC 360 Specification (Chapter N, QA/QC Fabrication & Erection)	Specification for Structural Steel Buildings – Fabrication & Erection)
RCSC Specification (Section 9, Inspection)	Specification for Structural Joints Using High Strength Bolts

[1] This laboratory meets A2LA *R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests.

[2] This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

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Accredited Laboratory

A2LA has accredited

PROFESSIONAL SERVICE INDUSTRIES, INC.

Tacoma, WA

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

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Presented this 8th day of January 2018.

President and CEO
For the Accreditation Council
Certificate Number 0147.03
Valid to December 31, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.