



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

PROFESSIONAL SERVICE INDUSTRIES, INC.
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Valid To: April 30, 2021

Certificate Number: 0037.01

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);
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, or Special Inspection);
E543 (Agencies Performing Nondestructive Testing)

CONSTRUCTION MATERIALS TESTING

Test Method:	Test Description:
Aggregates:	
ASTM C29/C29M	Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C40/C40M	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 C136/C136M	Sieve Analysis of Fine and Coarse Aggregates
ASTM C142/C142M	Clay Lumps and Friable Particles in Aggregates
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702/C702M	Reducing Samples of Aggregate to Testing Size

Test Method:	Test Description:
ASTM D75 ¹	Sampling Aggregates
Tex-200-F	Sieve Analysis of Fine and Coarse Aggregates
Tex-201-F	Bulk Specific Gravity and Water Absorption of Aggregate
Tex-202-F	Apparent Specific Gravity of Material Finer Than No.50 Sieve
Bituminous:	
ASTM D546	Sieve Analysis of Mineral Filler for Bituminous Paving Mixtures
ASTM D979/D979M ¹	Sampling Bituminous Paving Mixtures
ASTM D2726/D2726M	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D2950/D2950M ¹	Density of Bituminous Concrete in Place by Nuclear Methods
ASTM D3203/D3203M	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
ASTM D3549*/D3549M ¹	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D3665	Random Sampling of Construction Materials
ASTM D6926	Preparation of Bituminous Specimens Using Marshall Apparatus
ASTM D6927	Marshall Stability and Flow of Bituminous Mixtures
Tex-206-F	Compacting Specimens Using the Texas Gyrotory Compactor (TGC)
Tex-207-F	Determining Density of Compacted Bituminous Mixtures
Tex-208-F	Test for Stabilometer Value of Bituminous Mixtures
Tex-221-F	Sampling Aggregate for Bituminous Mixtures, Surface Treatments, and Limestone Rock Asphalt
Tex-222-F	Sampling Bituminous Mixtures
Tex-225-F	Random Selection of Bituminous Mixture Samples
Tex-227-F	Theoretical Maximum Specific Gravity of Bituminous Mixtures
Tex-236-F	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method
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*/C173M	Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C174/C174M	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
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 C341/C341M	Length Change of Cast, Drilled, or Sawed Specimens of Hydraulic-Cement Mortar and Concrete
ASTM C490/C490M	Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete
ASTM C495	Compressive Strength of Lightweight Insulating Concrete

Test Method:	Test Description:
ASTM C567 ¹	Determining Density of Structural Lightweight Concrete
ASTM C617/C617M	Capping Cylindrical Concrete Specimens
ASTM C642	Density, Absorption, and Voids in Hardened Concrete
ASTM C803 ¹	Penetration Resistance of Hardened Concrete
ASTM C805/C805M ¹	Rebound Number of Hardened Concrete
ASTM C823/C823M ¹	Examination and Sampling of Hardened Concrete in Constructions
ASTM C918/C918M	Measuring Early-Age Compressive Strength and Projecting Later-Age Strength
ASTM C939 ¹	Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)
ASTM C942	Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory
ASTM C1064/C1064M ¹	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1074 ¹	Estimating Concrete Strength by the Maturity Method
ASTM C1140	Preparing and Testing Specimens from Shotcrete Test Panels
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders
Floors:	
ASTM E1155 ¹	Determining FF Floor Flatness and FL Floor Levelness Numbers
Lime:	
Tex-600-J	Sampling and Testing Lime
Masonry, Mortar, Grout, and Ceramic Tile:	
ASTM C67 (Compression/Absorption)	Sampling and Testing Brick and Structural Clay Tile
ASTM C140	Sampling and Testing Concrete Masonry Units and Related Units
ASTM C780 Annex A6	Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
ASTM C1019 ¹	Sampling and Testing Grout
ASTM C1314	Compressive Strength of Masonry Prisms
Soils:	
ASTM D421 (Withdrawn 2016) ²	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422 (Withdrawn 2016) ²	Particle-Size Analysis of Soils
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D1140	Amount of Material in Soils Finer than No. 200 (75- μ m) Sieve
ASTM D1556/D1556M ¹	Density and Unit Weight of Soil in Place by Sand-Cone Method
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1632 (Section 11 – Curing Only)	Making and Curing Soil-Cement Compression and Flexure Test Specimens in the Laboratory
ASTM D1633 (Withdrawn 2016) ²	Compressive Strength of Molded Soil-Cement Cylinders
ASTM D2168	Calibration of Laboratory Mechanical-Rammer Soil Compactors

Test Method:	Test Description:
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488 ¹	Description and Identification of Soils (Visual-Manual Procedure)
ASTM D2850	Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils
ASTM D2937 ¹	Density of Soil in Place by the Drive-Cylinder Method
ASTM D3282	Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4253	Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
ASTM D4254	Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D4972	pH of Soils
ASTM D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D6938 ¹	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
Tex-101-E	Preparing Soil and Flexible Base Materials for Testing
Tex-112-E	Admixing Lime to Reduce Plasticity Index of Soils
Tex-113-E	Laboratory Compaction Characteristics and Moisture-Density Relationship of Base Materials
Tex-114-E	Laboratory Compaction Characteristics and Moisture-Density Relationship of Subgrade, Embankment Soils, and Backfill Material
Tex-120-E	Soil-Cement Testing
Tex-130-E (Part II)	Slurry Testing
Tex-140-E	Measuring Thickness of Pavement Layer
Soil-Cement:	
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D1632 (Section 11 – Curing Only)	Making and Curing Soil-Cement Compression and Flexure Test Specimens in the Laboratory
ASTM D1633 (Withdrawn 2016) ²	Compressive Strength of Molded Soil-Cement Cylinders
Steel (Shop & Field)¹:	
AWS D1.1 (Clause 6, Inspection), AWS D1.3 (Clause 6, Inspection), AWS D1.4 (Clause 6, Inspection)	Fabrication & Erection – Visual Welding
ASME (Chapter N, QA/QC Fabrication & Inspection)	Erection (Visual), Fabrication, Welding (Visual), Welding Qualification (Field & Shop Inspection)
AISC/RCSC (Section 9 Only)	Manual of Steel Construction (Fabrication & Erection – Visual & Bolting)

Test Method:	Test Description:
Nondestructive (Laboratory & Field)¹:	
ASTM E114	Ultrasonic Pulse-Echo Straight-Beam Contact Testing
ASTM E164	Contact Ultrasonic Testing of Weldments
ASTM E165 (Water Soluble Solutions Only)	Liquid Penetrant Examination for General Industry
ASTM E709 (AC Yoke Dry Powder Only)	Magnetic Particle Testing

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.





Accredited Laboratory

A2LA has accredited

PROFESSIONAL SERVICE INDUSTRIES, INC.

Houston, TX

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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 April 2017).



Presented this 3rd day of June 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0037.01
Valid to April 30, 2021

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