SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

QC LABORATORIES, INC.
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Valid to: May 31, 2018 Certificate Number: 1127.01

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

CONSTRUCTION MATERIALS ENGINEERING

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

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 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	Clay Lumps and Friable Particles in Aggregates
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702 (Methods B & C)	Reducing Samples of Aggregate to Testing Size
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-400-A[1]	Sampling Flexible Base, Stone, Gravel, Sand, and Mineral Aggregates
Tex-401-A	Sieve Analysis of Fine and Coarse Aggregate
Tex-402-A	Fineness Modulus of Fine Aggregate
Tex-403-A	Saturated Surface-Dry Specific Gravity and Absorption of Aggregates
Tex-406-A	Material Finer Than 75 µm (No. 200) Sieve in Mineral Aggregates (Decantation Test For Concrete Aggregates)
Test Method:	**Test Description:**

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Bituminous:	
ASTM D5	Penetration of Bituminous Materials
ASTM D75[1]	Sampling Aggregates
ASTM D546	Sieve Analysis of Mineral Filler for Bituminous Paving Mixtures
ASTM D979[1]	Sampling Bituminous Paving Mixtures
ASTM D1560	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus
ASTM D1856	Recovery of Asphalt From Solution by Abson Method
ASTM D2041/D2041M	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2171/D2171M	Viscosity of Asphalts by Vacuum Capillary Viscometer
ASTM D2172 (Method A)	Quantitative Extraction of Bitumen From 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 D3549[1]	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D3665	Random Sampling of Construction Materials
ASTM D4013	Preparation of Test Specimens of Bituminous Mixtures by Means of Gyratory Shear Compactor
ASTM D5361[1]	Sampling Compacted Bituminous Mixtures for Laboratory Testing
ASTM D5444	Mechanical Size Analysis of Extracted Aggregate
AASHTO T209	Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt (HMA)
Tex-205-F	Laboratory Method of Mixing Bituminous Mixtures
Tex-206-F (Part 1)	Compacting Specimens Using the Texas Gyratory Compactor (TGC)
Tex-207-F	Determining Density of Compacted Bituminous Mixtures
Tex-208-F	Test for Stabilometer Value of Bituminous Mixtures
Tex-210-F	Determining Asphalt Content of Bituminous Mixtures by Extraction
Tex-211-F	Recovery of Asphalt from Bituminous Mixtures by the Abson Process
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[1]	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

Test Method:	Test Description:
Concrete (cont.):	
ASTM C293/C293M	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)
ASTM C495	Compressive Strength of Lightweight Insulating Concrete
ASTM C567/C567M[1]	Determining Density of Structural Lightweight Concrete
ASTM C617/C617M	Capping Cylindrical Concrete Specimens
ASTM C642	Density, Absorption, and Voids in Hardened Concrete
ASTM C823/C823M[1]	Examination and Sampling of Hardened Concrete in Constructions
ASTM C1040/C1041M	In-Place Density of Unhardened and Hardened Concrete, Including Roller Compacted Concrete, by Nuclear Methods
ASTM C1064/C1064M[1]	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1140	Preparing and Testing Specimens from Shotcrete Test Panels
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders
ASTM E1155	Determining F_F Floor Flatness and F_L Floor Levelness
AASHTO T23	Making and Curing Concrete Test Specimens in the Field
Tex-414-A[1]	Air Content of Freshly Mixed Concrete by the Volumetric Method
Tex-415-A[1]	Slump of Hydraulic Cement Concrete
Tex-416-A[1]	Air Content of Freshly Mixed Concrete by the Pressure Method
Tex-417-A[1]	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
Tex-418-A	Compressive Strength of Cylindrical Concrete Specimens
Tex-422-A	Measuring Temperature of Freshly Mixed Portland Cement Concrete
Tex-424-A	Obtaining and Testing Drilled Cores of Concrete
Tex-447-A[1]	Making and Curing Concrete Test Specimens
Tex-448-A	Flexural Strength of Concrete Using Simple Beam Third-Point Loading
Tex-450-A	Capping Cylindrical Concrete Specimens
Fireproofing[1]:	
ASTM E605	Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members
ASTM E736	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 C780[1] (Annex 6 Only)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
Soils:	
ASTM D421	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422	Particle-Size Analysis of Soils
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D559/D559M	Wetting and Drying Compacted 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 µm) 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 D1633	Compressive Strength of Molded Soil-Cement Cylinders
ASTM D1883	CBR (California Bearing Ratio) of Laboratory-Compacted Soils

Test Method:	Test Description:
Soils (cont.):	
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 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 D4643	Determination of Water (Moisture) Content of Soil by Microwave Oven Heating
ASTM D4647	Identification and Classification of Dispersive Clay Soils by the Pinhole Test
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D4959	Determination of Water (Moisture) Content of Soil by Direct Heating
ASTM D6938[1]	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
AASHTO T89	Determining the Liquid Limit of Soils
AASHTO T90	Determining the Plastic Limit and Plasticity Index of Soils
Tex-113-E	Laboratory Compaction Characteristics and Moisture-Density Relationship of Base Materials
Tex-120-E	Soil-Cement Testing
Tex-121-E	Soil-Lime Testing
Steel (Shop & Field) [1]:	
AWS D1.1 Clause 6 Inspection, D1.3 Clause 6, Part 1 Inspection, D1.4 Clause 7.1-7.5 Inspection	Fabrication & Erection – Visual Welding
AISC Section 16.1, N5, 6/RCSC Section 9 Inspection	Manual of Steel Construction (Fabrication & Erection – Visual & Bolting)
Nondestructive (Laboratory & Field) [1]:	
ASTM E94	Radiographic Examination
ASTM E164	Standard Practice for Contact Ultrasonic Testing of Weldments
ASTM E165/E165M	Standard Practice for Liquid Penetrant Examination for General Industry
ASTM E709	Magnetic Particle Testing

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

Accredited Laboratory

A2LA has accredited

QC LABORATORIES, 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 17025:2005 *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*).

Presented this 15th day of July 2016

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 1127.01
Valid to May 31, 2018

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