



# Accredited Laboratory

A2LA has accredited

## THE MURILLO COMPANY

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 14<sup>th</sup> day of September 2020.

A handwritten signature in blue ink, appearing to be 'L. M.', written over a horizontal line.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2188.02  
Valid to November 30, 2022

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

THE MURILLO COMPANY  
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Valid To: November 30, 2022

Certificate Number: 2188.02

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);  
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)

CONSTRUCTION MATERIALS TESTING

<u>Test Method:</u>	<u>Test Description:</u>
<b><u>Aggregates:</u></b>	
ASTM C29/C29M	Bulk Density (Unit Weight) and Voids in Aggregate
ASTM C40/C40M	Organic Impurities in Fine Aggregates for Concrete
ASTM C117	Materials Finer than 75- $\mu$ m (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
ASTM D75/D75M <sup>1</sup>	Sampling Aggregates
<b><u>Bituminous:</u></b>	
ASTM D979/D979M	Sampling of Bituminous Paving Mixtures
ASTM D1560	Test for Stabilometer Value of Bituminous Mixtures
ASTM D2041/D2041M	Theoretical Maximum Specific Gravity of Bituminous Mixtures
ASTM D2726/D2726M	Determining Density of Compacted Bituminous Mixtures
ASTM D3203/D3203M	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
ASTM D3549/D3549M	Thickness or Height of Compacted Bituminous Paving Mixtures Specimen

<b><u>Test Method:</u></b>	<b><u>Test Description:</u></b>
ASTM D5444	Mechanical Size Analysis of Extracted Aggregate
ASTM D6307	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method
TEX 206F	Compacting Specimens Using the Texas Gyrotory Compactor (TGC)
TEX 207F	Determining Density of Compacted Bituminous Mixtures
TEX 208F	Test for Stabilometer Value of Bituminous Mixtures
TEX 227F	Theoretical Maximum Specific Gravity of Bituminous Mixtures
TEX 236F	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method
<b><u>Concrete:</u></b>	
ASTM C31/C31M <sup>1</sup>	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 <sup>1</sup>	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C138/C138M <sup>1</sup>	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C143/C143M <sup>1</sup>	Slump of Hydraulic-Cement Concrete
ASTM C172/C172M <sup>1</sup>	Sampling Freshly Mixed Concrete
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 <sup>1</sup>	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 C805/C805M <sup>1</sup>	Rebound Number of Hardened Concrete
ASTM C1064/C1064M <sup>1</sup>	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders
<b><u>Soils:</u></b>	
ASTM D421 (Withdrawn 2016) <sup>2</sup>	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422 (Withdrawn 2016) <sup>2</sup>	Particle-Size Analysis of Soils
ASTM D448	Sizes of Aggregate for Road and Bridge Construction
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D1140	Determining the Amount of Material Finer than 75- $\mu$ m (No. 200) Sieve in Soils by Washing
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 D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488 <sup>1</sup>	Description and Identification of Soils (Visual-Manual Procedure)
ASTM D3282 <sup>1</sup>	Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis

<b>Test Method:</b>	<b>Test Description:</b>
ASTM D6938 <sup>1</sup>	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis

<sup>1</sup> This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests.

<sup>2</sup>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.

