



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

MAYES TESTING ENGINEERS, INC.
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Valid To: October 31, 2013

Certificate Number: 1002.01

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

CONSTRUCTION MATERIALS ENGINEERING

- ASTM: C1077 (Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory 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 and/or Testing)
- AASHTO: R18 (Practice for Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories)

CONSTRUCTION MATERIALS TESTING

| <u>Test Method:</u> | <u>Test Description:</u> |
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| Aggregates: | |
| ASTM C29 | Bulk Density (“Unit Weight”) and Voids in Aggregate |
| ASTM C40 | Organic Impurities in Fine Aggregates for Concrete |
| 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 |
| ASTM C566 | Total Evaporable Moisture Content of Aggregate by Drying |
| ASTM C702 | Reducing Samples of Aggregate to Testing Size |
| ASTM D75* | Sampling Aggregates |
| ASTM D2419 | Sand Equivalent Value of Soils and Fine Aggregate |
| AASHTO T002 * | Sampling of Aggregates |
| AASHTO T011 | Test for Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing |

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| <u>Test Method:</u> | <u>Test Description:</u> |
|-----------------------------|---|
| 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 T248 | Reducing Samples of Aggregate to Testing Size |
| AASHTO T255 | Total Evaporable Moisture Content of Aggregate by Drying |
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| <u>Bituminous:</u> | |
| ASTM D979* | Sampling Bituminous Paving Mixtures |
| ASTM D1188 | Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples |
| 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* | Density of Bituminous Concrete in Place by Nuclear Methods |
| ASTM D3203* | Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures |
| ASTM D3665 | Random Sampling of Construction Materials |
| ASTM D5361 | 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 T30 | Mechanical Analysis of Extracted Aggregate |
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| <u>Concrete:</u> | |
| ASTM C31/C31M* | 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 | Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading) |
| ASTM C138/C138M* | Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete |
| ASTM C143/C143M* | Slump of Hydraulic-Cement Concrete |
| ASTM C157/C157M | Length Change of Hardened Hydraulic-Cement Mortar and Concrete |
| ASTM C172/C172M* | Sampling Freshly Mixed Concrete |
| ASTM C173* | 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* | Air Content of Freshly Mixed Concrete by the Pressure Method |
| ASTM C617 | Capping Cylindrical Concrete Specimens |
| ASTM C1064/C1064M* | 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 T231 | Capping Cylindrical Concrete Specimens |
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| <u>Fireproofing:</u> | |
| ASTM E605* | Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members |

| <u>Test Method:</u> | <u>Test Description:</u> |
|---|---|
| ASTM E736* | Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members |
| <u>Masonry:</u> | |
| ASTM C67 (Compression & Absorption) | Sampling and Testing Brick and Structural Clay Tile |
| ASTM C109/C109M (Compressive Strength Only) | Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens) |
| ASTM C140 | Sampling and Testing Concrete Masonry Units and Related Units |
| ASTM C426 | Linear Drying Shrinkage of Concrete Masonry Units |
| ASTM C476 | Grout for Masonry |
| ASTM C579 | Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes |
| ASTM C780* (Compressive Strength Only) | Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry |
| ASTM C1019 | Sampling and Testing Grout |
| ASTM C1107/C1107M | Packaged Dry, Hydraulic-Cement Grout (Nonshrink) |
| ASTM C1314 | Compressive Strength of Masonry Prisms |
| ASTM C1552 | Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing |
| AASHTO T106 | Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in. Cube Specimens) |
| <u>Soils:</u> | |
| ASTM D421 | Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants |
| ASTM D422 | Particle-Size Analysis of Soils |
| ASTM D698* | Laboratory Compaction Characteristics of Soil Using Standard Effort |
| ASTM D854-98 | Specific Gravity of Soil Solids by Water Pycnometer |
| ASTM D1140 | Amount of Material in Soils Finer than No. 200 (75- μ m) Sieve |
| ASTM D1557* | Laboratory Compaction Characteristics of Soil Using Modified Effort |
| ASTM D1883 | CBR (California Bearing Ratio) of Laboratory-Compacted Soils |
| ASTM D2216 | Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass |
| ASTM D2844 | Resistance R-Value and Expansion Pressure of Compacted Soils |
| ASTM D2922-05 (Withdrawn 2007) ^{1*} | Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth) |
| ASTM D3017-05 (Withdrawn 2007) ^{1*} | Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth) |
| 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* | In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) |
| <u>Steel (Shop & Field)*:</u> | |
| AWS D1.1, D1.3, D1.4, D1.5, 1.8 | Fabrication & Erection – Visual Welding |
| AISC/RCSC | Manual of Steel Construction (Fabrication & Erection – Visual & Bolting) |

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| Mechanical: | |
| ASTM D3039 | Tensile Properties of Polymer Matrix Composite Materials |

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

¹ NOTE: 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.



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

MAYES TESTING ENGINEERS, INC.

Lynnwood, 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*).



Presented this 21st day of October 2011.

A handwritten signature in black ink, appearing to read "Peter Mayes".

President & CEO
For the Accreditation Council
Certificate Number 1002.01
Valid to October 31, 2013

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