



# CERTIFICATE OF ACCREDITATION



## Millennium Engineers Group, Inc.

in

**Pharr, Texas, USA**

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories ([aashtoresource.org](http://aashtoresource.org)).

A handwritten signature in black ink, appearing to read 'Jim Tymon', written over a horizontal line.

Jim Tymon,  
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Moe Jamshidi', written over a horizontal line.

Moe Jamshidi,  
AASHTO COMP Chair

This certificate was generated on 05/31/2019 at 11:39 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](http://aashtoresource.org/aap/accreditation-directory)



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Quality Management System

### Standard:

### Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/18/2010
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	11/20/2018
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	06/06/2018
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	11/20/2018
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	11/20/2018
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	11/20/2018
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/20/2018
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/20/2018
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/20/2018



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## Asphalt Mixture

### Standard:

### Accredited Since:

R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	11/20/2018
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	11/20/2018
D979	Sampling Bituminous Paving Mixtures	11/20/2018
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/20/2018
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	06/19/2014
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	11/20/2018
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/20/2018
D5444	Mechanical Analysis of Extracted Aggregate	11/20/2018
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/20/2018
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	11/20/2018
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	11/20/2018
Tex-206-F	Compacting Specimens Using the Texas Gyrotory Compactor (TGC)	06/19/2014
Tex-208-F	Test for Stabilometer Value of Bituminous Mixtures	11/20/2018



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## Soil

### Standard:

### Accredited Since:

T288	Minimum Soil Resistivity	11/20/2018
T289	pH of Soils for Corrosion Testing	11/20/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/20/2018
D422	Particle Size Analysis of Soils by Hydrometer	11/20/2018
D558	Moisture-Density Relations of Soil-Cement Mixtures	11/20/2018
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	11/20/2018
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/18/2010
D854	Specific Gravity of Soils	11/20/2018
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	03/18/2010
D1556	Density of Soil In-Place by the Sand Cone Method	11/20/2018
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/18/2010
D1883	The California Bearing Ratio	11/20/2018
D2166	Unconfined Compressive Strength of Cohesive Soil	11/20/2018
D2216	Laboratory Determination of Moisture Content of Soils	03/18/2010
D2434	Permeability of Granular Soils (Constant Head)	11/20/2018
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	11/20/2018
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	11/20/2018
D2488	Description and Identification of Soils (Visual-Manual Procedure)	11/20/2018
D2850	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	11/20/2018
D2937	Density of Soil in Place by the Drive-Cylinder Method	11/20/2018
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	03/18/2010
D4318	Plastic Limit of Soils (Atterberg Limits)	03/18/2010
D4546	One-Dimensional Swell or Settlement Potential of Cohesive Soils	11/20/2018



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## Soil (Continued)

<b>Standard:</b>	<b>Accredited Since:</b>
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	11/20/2018
D4718 Oversize Particle Correction	11/20/2018
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	11/20/2018
D4829 Expansion Index of Soils	11/20/2018
D4943 Shrinkage Factors of Soil by Wax Method	11/20/2018
D4972 pH Testing of Soils	11/20/2018
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	11/20/2018
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	11/20/2018
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/20/2018
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	11/20/2018
G51 Measuring pH for Corrosion Testing	11/20/2018
G57 Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method	11/20/2018
G187 Soil Resistivity Using the Two-Electrode Soil Box	11/20/2018



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## Aggregate

### Standard:

### Accredited Since:

C29	Bulk Density ("Unit Weight") and Voids in Aggregate	11/20/2018
C40	Organic Impurities in Fine Aggregates for Concrete	11/20/2018
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/20/2018
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	02/14/2012
C127	Specific Gravity and Absorption of Coarse Aggregate	11/20/2018
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/20/2018
C136	Sieve Analysis of Fine and Coarse Aggregates	02/14/2012
C142	Clay Lumps and Friable Particles in Aggregate	11/20/2018
C566	Total Moisture Content of Aggregate by Drying	11/20/2018
C702	Reducing Samples of Aggregate to Testing Size	11/20/2018
D75	Sampling Aggregate	11/20/2018
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/20/2018
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/20/2018
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	11/20/2018
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	11/20/2018



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## Concrete

Standard:		Accredited Since:
C31	Making and Curing Concrete Test Specimens in the Field	06/06/2018
C39	Compressive Strength of Cylindrical Concrete Specimens	06/06/2018
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	06/06/2018
C138	Density (Unit Weight), Yield, and Air Content of Concrete	06/06/2018
C143	Slump of Hydraulic Cement Concrete	06/06/2018
C172	Sampling Freshly Mixed Concrete	06/06/2018
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	06/06/2018
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	06/06/2018
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/06/2018
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	06/06/2018
C1064	Temperature of Freshly Mixed Portland Cement Concrete	06/06/2018
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	06/06/2018
C1542	Measuring Length of Concrete Cores	06/06/2018



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## Masonry

**Standard:**

**Accredited Since:**

C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/06/2018
C780 (Annex 6)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength	06/06/2018