



# CERTIFICATE OF ACCREDITATION



## Materials Testing Consultants, Inc.

in

### Grand Rapids, Michigan, 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 02/22/2019 at 6:13 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	01/31/2003
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/10/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/14/2014
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/13/2012
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011



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## Asphalt Mixture

### Standard:

### Accredited Since:

R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	09/27/2011
T30	Mechanical Analysis of Extracted Aggregate	09/27/2011
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	09/27/2011
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	09/27/2011
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	09/27/2011
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	09/27/2011
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	09/27/2011
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	09/11/2013
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	09/27/2011
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	10/11/2006
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	09/11/2013
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	10/11/2006
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	10/11/2006
D5444	Mechanical Analysis of Extracted Aggregate	10/11/2006
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	09/11/2013
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	10/11/2006
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	10/11/2006
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	10/11/2006



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/10/2018
T88	Particle Size Analysis of Soils by Hydrometer	09/27/2011
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	09/27/2011
T90	Plastic Limit of Soils (Atterberg Limits)	09/27/2011
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/27/2011
T100	Specific Gravity of Soils	09/27/2011
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/27/2011
T215	Permeability of Granular Soils (Constant Head)	09/27/2011
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/10/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/10/2018
D422	Particle Size Analysis of Soils by Hydrometer	10/11/2006
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	10/11/2006
D854	Specific Gravity of Soils	09/27/2011
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	10/11/2006
D2434	Permeability of Granular Soils (Constant Head)	10/11/2006
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	10/11/2006
D4318	Plastic Limit of Soils (Atterberg Limits)	10/11/2006
D5084	Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	10/11/2006
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/10/2018



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## Aggregate

**Standard:**

**Accredited Since:**

C40 Organic Impurities in Fine Aggregates for Concrete	01/31/2003
C117 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	01/31/2003
C127 Specific Gravity and Absorption of Coarse Aggregate	01/31/2003
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	01/31/2003
C136 Sieve Analysis of Fine and Coarse Aggregates	01/31/2003
C566 Total Moisture Content of Aggregate by Drying	01/31/2003
C702 Reducing Samples of Aggregate to Testing Size	01/31/2003



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## Concrete

### Standard:

### Accredited Since:

C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	05/05/2017
C39	Compressive Strength of Cylindrical Concrete Specimens	01/31/2003
C138	Density (Unit Weight), Yield, and Air Content of Concrete	01/31/2003
C143	Slump of Hydraulic Cement Concrete	01/31/2003
C172	Sampling Freshly Mixed Concrete	01/31/2003
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	01/31/2003
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	01/31/2003
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/13/2012
C1064	Temperature of Freshly Mixed Portland Cement Concrete	01/31/2003
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	08/13/2012