



# CERTIFICATE OF ACCREDITATION



## **Bowser-Morner, Inc.**

in

## **Toledo, Ohio, 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 01/23/2023 at 9:35 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:

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	05/01/1996
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	06/15/2002
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	08/16/2013
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	08/16/2013
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	08/16/2013
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	08/16/2013
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	08/16/2013
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/16/2013
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/16/2013
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/16/2013
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/16/2013



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## Asphalt Mixture

### Standard:

### Accredited Since:

R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/01/1996
T30	Mechanical Analysis of Extracted Aggregate	05/01/1996
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	05/01/1996
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/01/1996
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/01/1996
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/01/1996
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/01/1996
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/01/1996
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	05/01/1996
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/01/1996
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/01/1996
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	01/15/2021
D5444	Mechanical Analysis of Extracted Aggregate	05/01/1996
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/01/1996
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/01/1996



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## Soil

### Standard:

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R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/01/1997
T88	Particle Size Analysis of Soils by Hydrometer	05/01/1997
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	05/01/1997
T90	Plastic Limit of Soils (Atterberg Limits)	05/01/1997
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/01/1997
T100	Specific Gravity of Soils	05/01/1997
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/01/1997
T208	Unconfined Compressive Strength of Cohesive Soil	05/01/1997
T265	Laboratory Determination of Moisture Content of Soils	05/01/1997
T267	Determination of Organic Content in Soils by Loss on Ignition	12/01/2011
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/01/1997
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/01/1997
D422	Particle Size Analysis of Soils by Hydrometer	05/01/1997
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/01/1997
D854	Specific Gravity of Soils	05/01/1997
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	05/01/1997
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/01/1997
D2166	Unconfined Compressive Strength of Cohesive Soil	05/01/1997
D2216	Laboratory Determination of Moisture Content of Soils	05/01/1997
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	05/01/1997
D2974	Determination of Organic Content in Soils by Loss on Ignition	12/01/2011
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	05/01/1997
D4318	Plastic Limit of Soils (Atterberg Limits)	05/01/1997



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## Soil (Continued)

**Standard:**

**Accredited Since:**

D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

05/01/1997



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## Aggregate

### Standard:

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R76	Reducing Samples of Aggregate to Testing Size	05/01/1997
R90	Sampling Aggregate	01/15/2021
T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	05/01/1997
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	05/01/1997
T27	Sieve Analysis of Fine and Coarse Aggregates	05/01/1997
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	08/30/2018
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	05/01/1997
T85	Specific Gravity and Absorption of Coarse Aggregate	05/01/1997
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/01/1997
T255	Total Moisture Content of Aggregate by Drying	05/01/1997
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	05/01/1997
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	05/01/1997
C127	Specific Gravity and Absorption of Coarse Aggregate	05/01/1997
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	05/01/1997
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/01/1997
C136	Sieve Analysis of Fine and Coarse Aggregates	05/01/1997
C566	Total Moisture Content of Aggregate by Drying	05/01/1997
C702	Reducing Samples of Aggregate to Testing Size	05/01/1997
D75	Sampling Aggregate	01/15/2021
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	08/30/2018



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## Sprayed Fire-Resistive Material

### Standard:

### Accredited Since:

E605 Thickness and Density of Sprayed Fire-Resistive Material(SFRM) Applied to Structural Members

12/01/2011

E736 Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members

12/01/2011



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## Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/22/2014
R39	Making and Curing Concrete Test Specimens in the Laboratory	02/23/2017
R60	Sampling Freshly Mixed Concrete	02/23/2017
R100	Making and Curing Concrete Test Specimens in the Field	10/22/2014
T22	Compressive Strength of Cylindrical Concrete Specimens	02/01/2013
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	10/22/2014
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/01/2013
T119	Slump of Hydraulic Cement Concrete	02/01/2013
T121	Density (Unit Weight), Yield, and Air Content of Concrete	02/01/2013
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	02/01/2013
T177	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	06/04/2019
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/01/2013
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	10/22/2014
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	02/01/2013
T309	Temperature of Freshly Mixed Portland Cement Concrete	02/01/2013
C31	Making and Curing Concrete Test Specimens in the Field	05/01/1997
C39	Compressive Strength of Cylindrical Concrete Specimens	05/01/1997
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	10/22/2014
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	05/01/1997
C138	Density (Unit Weight), Yield, and Air Content of Concrete	05/01/1997
C143	Slump of Hydraulic Cement Concrete	05/01/1997
C172	Sampling Freshly Mixed Concrete	05/01/1997
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	05/01/1997





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## Concrete (Continued)

<b>Standard:</b>		<b>Accredited Since:</b>
C192	Making and Curing Concrete Test Specimens in the Laboratory	05/01/1997
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	05/01/1997
C293	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	06/04/2019
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/01/2012
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	05/01/2012
C1064	Temperature of Freshly Mixed Portland Cement Concrete	05/01/1997
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	05/01/1997
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	05/01/2012
C1542	Measuring Length of Concrete Cores	10/22/2014



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## Masonry

### Standard:

### Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/26/2022
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/26/2022
C1019	Sampling and Testing Grout	07/26/2022