AASHTO ACCREDITED

Certificate of Accreditation

American Association of State Highway and Transportation Officials

AASHTO

Bowser-Morner, Inc.

in

Dayton, 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).

Jim Tymon,
AASHTO Executive Director

Matt Linneman,
AASHTO COMP Chair

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Scope of AASHTO Accreditation for:

Bowser-Morner, Inc.

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Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	11/15/1995
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	11/15/2000
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	11/17/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	12/20/2011
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	06/25/2018
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	01/10/2011
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/25/2018
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/23/2012
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/07/2021

Scope of AASHTO Accreditation for:

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Asphalt Mixture

Standard:		Accredited Since:
T30	Mechanical Analysis of Extracted Aggregate	11/15/1995
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	11/15/1995
T166 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	08/13/2025
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/15/1995
T245 (Cores)	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus (Cores)	08/13/2025
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/15/1995
T275 (Cores)	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens (Cores)	08/13/2025
D1188 (Cores)	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens (Cores)	08/13/2025
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/15/1995
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	11/15/1995
D2726 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	08/13/2025
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/15/1995
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	06/07/2021
D5444	Mechanical Analysis of Extracted Aggregate	11/15/1995
D6927 (Cores)	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus (Cores)	08/13/2025

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Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/15/1995
T88	Particle Size Analysis of Soils by Hydrometer	11/15/1995
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	11/15/1995
T90	Plastic Limit of Soils (Atterberg Limits)	11/15/1995
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/15/1995
T100	Specific Gravity of Soils	11/15/1995
T134	Moisture-Density Relations of Soil-Cement Mixtures	11/15/1995
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	11/15/1995
T136	Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	11/15/1995
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/15/1995
T193	The California Bearing Ratio	11/15/1995
T208	Unconfined Compressive Strength of Cohesive Soil	11/15/1995
T215	Permeability of Granular Soils (Constant Head)	11/15/1995
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	11/15/1995
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	11/15/1995
T265	Laboratory Determination of Moisture Content of Soils	11/15/1995
T267	Determination of Organic Content in Soils by Loss on Ignition	11/15/1995
T288	Minimum Soil Resistivity	05/10/2013
T289	pH of Soils for Corrosion Testing	05/10/2013
T290 (Method B)	Determining Water-Soluble Sulfate Ion Content in Soil	06/07/2021
T291	Determining Water-Soluble Chloride Ion Content in Soil	06/07/2021
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	11/15/1995
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	11/15/1995

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Soil (Continued)

Standard:		Accredited Since:
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/15/1995
T311	Grain-Size Analysis of Granular Soil Materials	11/15/1995
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/15/1995
D422	Particle Size Analysis of Soils by Hydrometer	11/15/1995
D558	Moisture-Density Relations of Soil-Cement Mixtures	11/15/1995
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	11/15/1995
D560	Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	11/15/1995
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/15/1995
D854	Specific Gravity of Soils	11/15/1995
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	11/15/1995
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/15/1995
D1633	Compressive Strength of Molded Soil-Cement Cylinders	07/29/2024
D1883	The California Bearing Ratio	11/15/1995
D2166	Unconfined Compressive Strength of Cohesive Soil	11/15/1995
D2216	Laboratory Determination of Moisture Content of Soils	11/15/1995
D2434	Permeability of Granular Soils (Constant Head)	11/15/1995
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	11/15/1995
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	11/15/1995
D2488	Description and Identification of Soils (Visual-Manual Procedure)	11/15/1995
D2850	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	11/15/1995
D2974	Determination of Organic Content in Soils by Loss on Ignition	09/22/2011
D3080	Direct Shear Test of Soils Under Consolidated Drained Conditions	03/10/2016
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	11/15/1995

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Soil (Continued)

Standard:		Accredited Since:
D4318	Plastic Limit of Soils (Atterberg Limits)	11/15/1995
D4546	One-Dimensional Swell or Settlement Potential of Cohesive Soils	11/15/1995
D4767	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	11/15/1995
D4972	pH Testing of Soils	09/22/2011
D5084	Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	11/15/1995
D5334	Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe	07/29/2024
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	05/10/2013
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/15/1995
D7263	Density and Unit Weight of Soil	07/29/2024
D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	05/15/2018
G187	Soil Resistivity Using the Two-Electrode Soil Box	05/15/2018

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Rock

Standard:		Accredited Since:
D3967	Splitting Tensile Strength of Intact Rock Core Specimens	06/07/2021
D4543	Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	05/15/2018
D4644	Slake Durability of Shales and Weak Rocks	09/22/2011
D5240	Evaluation of Durability of Rock for Erosion Control Using Sodium Sulfate or Magnesium Sulfate	06/07/2021
D5312	Evaluation of Durability of Rock for Erosion Control Under Freezing and Thawing Conditions	06/07/2021
D5313	Durability of Rock for Erosion Control Under Wetting and Drying Conditions	06/07/2021
D5731	Point Load Strength Index of Rock	05/10/2013
D7012 (Method C)	Compressive Strength of Rock Core Specimens (Method C)	09/22/2011

Scope of AASHTO Accreditation for:

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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	11/15/1995
R90	Sampling Aggregate	09/26/2013
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	11/15/1995
T19	Bulk Density (“Unit Weight”) and Voids in Aggregate	11/15/1995
T21	Organic Impurities in Fine Aggregates for Concrete	11/15/1995
T27	Sieve Analysis of Fine and Coarse Aggregates	11/15/1995
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/15/1995
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/15/1995
T85	Specific Gravity and Absorption of Coarse Aggregate	11/15/1995
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/15/1995
T103	Soundness of Aggregates by Freezing and Thawing	07/29/2024
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/15/1995
T112	Clay Lumps and Friable Particles in Aggregate	11/15/1995
T113	Lightweight Pieces in Aggregate	11/15/1995
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/15/1995
T210	Aggregate Durability Index	11/15/1995
T255	Total Moisture Content of Aggregate by Drying	11/15/1995
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/15/1995
T327	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	11/15/1995
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	05/10/2013
C29	Bulk Density (“Unit Weight”) and Voids in Aggregate	11/15/1995
C40	Organic Impurities in Fine Aggregates for Concrete	11/15/1995
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/15/1995

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Aggregate (Continued)

Standard:		Accredited Since:
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	11/15/1995
C123	Lightweight Pieces in Aggregate	11/15/1995
C127	Specific Gravity and Absorption of Coarse Aggregate	11/15/1995
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/15/1995
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/15/1995
C136	Sieve Analysis of Fine and Coarse Aggregates	11/15/1995
C142	Clay Lumps and Friable Particles in Aggregate	11/15/1995
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/15/1995
C566	Total Moisture Content of Aggregate by Drying	11/15/1995
C702	Reducing Samples of Aggregate to Testing Size	11/15/1995
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/15/1995
D75	Sampling Aggregate	09/26/2013
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/15/1995
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/15/1995
D3744	Aggregate Durability Index	11/15/1995
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	11/15/1995
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	05/10/2013
D6928	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	11/15/1995
D7428	Resistance to Abrasion by Micro-Deval (Fine Aggregate)	02/25/2014
CRD-C130	Estimating Scratch Test Hardness of Coarse Aggregate Particles	05/15/2018

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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	10/15/2014
R39	Making and Curing Concrete Test Specimens in the Laboratory	09/01/1996
R60	Sampling Freshly Mixed Concrete	09/01/1996
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	09/01/1996
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	09/01/1996
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/28/2022
T22	Compressive Strength of Cylindrical Concrete Specimens	09/01/1996
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	09/01/1996
T71	Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	12/28/2022
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	09/01/1996
T119	Slump of Hydraulic Cement Concrete	09/01/1996
T121	Density (Unit Weight), Yield, and Air Content of Concrete	09/01/1996
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	09/01/1996
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	09/01/1996
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	09/01/1996
T161	Resistance of Concrete to Rapid Freezing and Thawing	09/01/1996
T177	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	09/01/1996
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	09/01/1996
T197	Time of Setting of Concrete Mixtures by Penetration Resistance	09/01/1996
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	09/01/1996
T231 (7000 psi and below)	Capping Cylindrical Concrete Specimens	05/10/2013
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	10/15/2014
T309	Temperature of Freshly Mixed Portland Cement Concrete	09/01/1996

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Concrete (Continued)

Standard:		Accredited Since:
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	09/01/1996
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	09/01/1996
C39	Compressive Strength of Cylindrical Concrete Specimens	09/01/1996
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	09/01/1996
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	09/01/1996
C87	Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	06/15/2021
C138	Density (Unit Weight), Yield, and Air Content of Concrete	09/01/1996
C143	Slump of Hydraulic Cement Concrete	09/01/1996
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	09/01/1996
C172	Sampling Freshly Mixed Concrete	09/01/1996
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	09/01/1996
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	09/01/1996
C192	Making and Curing Concrete Test Specimens in the Laboratory	09/01/1996
C215	Fundamental Transverse, Longitudinal and Torsional Frequencies of Concrete Specimens	09/01/1996
C227	Potential Alkali Reactivity of Cement-Aggregate Combinations (Mortar-Bar Method)	11/15/1995
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	09/01/1996
C289	Potential Alkali-Silica Reactivity of Aggregates (Chemical Method)	03/18/2005
C293	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	09/01/1996
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/28/2022
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	09/01/1996
C418	Abrasion Resistance of Concrete by Sandblasting	09/01/1996
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	09/01/1996
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	09/01/1996

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Concrete (Continued)

Standard:		Accredited Since:
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/23/2012
C512	Creep of Concrete in Compression	09/01/1996
C586	Potential Alkali Reactivity of Carbonate Rocks for Concrete Aggregates (Rock Cylinder Method)	01/28/2010
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	02/23/2012
C642	Density, Absorption, and Voids in Hardened Concrete	09/01/1996
C666	Resistance of Concrete to Rapid Freezing and Thawing	09/01/1996
C672	Scaling Resistance of Concrete Surfaces Exposed to De-icing Chemicals	01/13/2015
C803	Penetration Resistance of Hardened Concrete	09/01/1996
C805	Rebound Number of Hardened Concrete	09/01/1996
C1064	Temperature of Freshly Mixed Portland Cement Concrete	09/01/1996
C1105	Length Change of Concrete Due to Alkali-Carbonate Rock Reaction	09/01/1996
C1152	Acid-Soluble Chloride in Mortar and Concrete	09/01/1996
C1218	Water-Soluble Chloride in Mortar and Concrete	09/01/1996
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/23/2012
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	11/15/1995
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	09/01/1996
C1437	Flow of Hydraulic Cement Mortar	04/06/2023
C1542	Measuring Length of Concrete Cores	10/15/2014
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	09/01/1996

Scope of AASHTO Accreditation for:

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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	04/13/2017
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/28/2022
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/28/2022
T137	Air Content of Hydraulic Cement Mortar	12/28/2022
C67	Brick: Absorption	01/01/2011
C67	Brick: Capping	02/02/2010
C67	Brick: Compressive Strength	01/01/2011
C67	Brick: Initial Rate of Absorption	04/13/2017
C67	Brick: Measurement	01/01/2011
C67	Brick: Specimen Preparation	02/02/2010
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	02/02/2010
C140 (Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	02/02/2010
C185	Air Content of Hydraulic Cement Mortar	02/02/2010
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/02/2010
C426	Linear Drying Shrinkage of Concrete Masonry Units	07/23/2019
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/23/2012
C1019	Sampling and Testing Grout	02/02/2010
C1314	Compressive Strength of Masonry Prisms	10/15/2014
C1437	Flow of Hydraulic Cement Mortar	02/02/2010
C1506	Water Retention of Hydraulic Cement-Based Mortars and Plasters	02/02/2010
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	02/02/2010