



CERTIFICATE OF ACCREDITATION



Twining, Inc.

in

San Diego, California, 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

This certificate was generated on 10/27/2026 at 1:07 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

in San Diego, California, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	06/16/2010
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	09/11/2012
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	06/30/2016
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	08/12/2014
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	11/14/2012
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	11/14/2012
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/28/2014
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/18/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/20/2026



SCOPE OF AASHTO ACCREDITATION FOR:

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Pavement Preservation

Standard:

Accredited Since:

D3910/D6372 Wet Track Abrasion Of Slurry Surfacing Systems

02/20/2026

TB-100 Wet Track Abrasion Of Slurry Surfacing Systems

02/20/2026



SCOPE OF AASHTO ACCREDITATION FOR:

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Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	11/14/2012
T30	Mechanical Analysis of Extracted Aggregate	11/14/2012
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/08/2022
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/14/2012
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	11/08/2022
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	11/08/2022
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/14/2012
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	11/08/2022
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/14/2012
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	11/08/2022
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	11/08/2022
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	11/08/2022
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/14/2012
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/08/2022
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/14/2012
D5444	Mechanical Analysis of Extracted Aggregate	11/14/2012
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/14/2012



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/18/2017
T88	Particle Size Analysis of Soils by Hydrometer	02/20/2026
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	06/16/2010
T90	Plastic Limit of Soils (Atterberg Limits)	06/16/2010
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	06/16/2010
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	06/16/2010
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	02/20/2026
T191	Density of Soil In-Place by the Sand Cone Method	06/16/2010
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	02/20/2026
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	02/20/2026
T265	Laboratory Determination of Moisture Content of Soils	06/16/2010
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	06/16/2010
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/18/2017
D422	Particle Size Analysis of Soils by Hydrometer	02/20/2026
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	06/16/2010
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	06/16/2010
D1556	Density of Soil In-Place by the Sand Cone Method	06/16/2010
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	06/16/2010
D2216	Laboratory Determination of Moisture Content of Soils	06/16/2010
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	02/20/2026
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	06/16/2010
D2488	Description and Identification of Soils (Visual-Manual Procedure)	06/16/2010
D2844	Resistance R-Value and Expansion Pressure of Compacted Soils	02/20/2026



SCOPE OF AASHTO ACCREDITATION FOR:

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Soil (Continued)

Standard:		Accredited Since:
D3080 (5000 lb/ft-sq or Greater Normal Stress)	Direct Shear Test of Soils Under Consolidated Drained Conditions (with Exceptions)	02/20/2026
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	06/16/2010
D4318	Plastic Limit of Soils (Atterberg Limits)	06/16/2010
D4829	Expansion Index of Soils	11/08/2019
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	06/16/2010
D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	02/20/2026



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	06/16/2010
R90	Sampling Aggregate	11/14/2012
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	06/16/2010
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	11/14/2012
T21	Organic Impurities in Fine Aggregates for Concrete	11/08/2019
T27	Sieve Analysis of Fine and Coarse Aggregates	06/16/2010
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	06/16/2010
T85	Specific Gravity and Absorption of Coarse Aggregate	06/16/2010
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	06/30/2016
T112	Clay Lumps and Friable Particles in Aggregate	06/30/2016
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	06/16/2010
T210	Aggregate Durability Index	11/14/2012
T255	Total Moisture Content of Aggregate by Drying	06/16/2010
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/14/2012
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	05/08/2015
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	11/14/2012
C40	Organic Impurities in Fine Aggregates for Concrete	11/08/2019
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	06/30/2016
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	06/16/2010
C127	Specific Gravity and Absorption of Coarse Aggregate	06/16/2010
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	06/16/2010
C136	Sieve Analysis of Fine and Coarse Aggregates	06/16/2010
C142	Clay Lumps and Friable Particles in Aggregate	06/30/2016



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Aggregate (Continued)

Standard:

Accredited Since:

C566 Total Moisture Content of Aggregate by Drying	06/16/2010
C702 Reducing Samples of Aggregate to Testing Size	06/16/2010
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/14/2012
D75 Sampling Aggregate	11/14/2012
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	06/16/2010
D3744 Aggregate Durability Index	11/14/2012
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	11/14/2012
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	11/14/2012



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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

06/16/2010

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

06/16/2010



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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	06/30/2016
R39	Making and Curing Concrete Test Specimens in the Laboratory	06/30/2016
R60	Sampling Freshly Mixed Concrete	06/30/2016
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	06/30/2016
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	06/30/2016
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/21/2025
T22	Compressive Strength of Cylindrical Concrete Specimens	06/30/2016
T24 (Drilling Cores of Concrete)	Drilling Cores of Concrete	10/03/2018
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	10/03/2018
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	06/30/2016
T119	Slump of Hydraulic Cement Concrete	06/30/2016
T121	Density (Unit Weight), Yield, and Air Content of Concrete	06/30/2016
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	10/03/2018
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	06/30/2016
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	10/04/2016
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	06/30/2016
T197	Time of Setting of Concrete Mixtures by Penetration Resistance	10/04/2016
T231 (10000 psi and below)	Capping Cylindrical Concrete Specimens	02/21/2025
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	10/04/2016
T309	Temperature of Freshly Mixed Portland Cement Concrete	06/30/2016
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	04/28/2014
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	04/28/2014
C39	Compressive Strength of Cylindrical Concrete Specimens	09/11/2012



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Concrete (Continued)

Standard:		Accredited Since:
C42 (Drilling Cores of Concrete)	Drilling Cores of Concrete	10/03/2018
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	10/03/2018
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/28/2014
C138	Density (Unit Weight), Yield, and Air Content of Concrete	09/11/2012
C143	Slump of Hydraulic Cement Concrete	09/11/2012
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	10/04/2016
C172	Sampling Freshly Mixed Concrete	09/11/2012
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	09/11/2012
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	10/03/2018
C192	Making and Curing Concrete Test Specimens in the Laboratory	06/30/2016
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	09/11/2012
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/21/2025
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	10/04/2016
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	09/11/2012
C617 (10000 psi and below)	Capping Cylindrical Concrete Specimens	02/21/2025
C642	Density, Absorption, and Voids in Hardened Concrete	06/30/2016
C1064	Temperature of Freshly Mixed Portland Cement Concrete	09/11/2012
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	08/29/2018
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	09/11/2012
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	10/04/2016
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	10/04/2016



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Masonry

Standard:

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M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/30/2016
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	10/04/2016
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	11/07/2019
T137	Air Content of Hydraulic Cement Mortar	10/04/2016
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	11/07/2019
C140 (Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	06/30/2016
C185	Air Content of Hydraulic Cement Mortar	10/04/2016
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	10/04/2016
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/30/2016
C1019	Sampling and Testing Grout	06/30/2016
C1437	Flow of Hydraulic Cement Mortar	10/04/2016
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	06/30/2016