



CERTIFICATE OF ACCREDITATION



Twining, Inc.

in

Riverside, 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 2:13 AM Eastern Time. Please confirm the current accreditation status of this laboratory at 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	05/01/2006
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	05/17/2019
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	09/16/2021
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	05/04/2017
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	05/04/2017
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	06/28/2017
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/04/2017
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/04/2017
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/20/2013
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/16/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/28/2017
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/04/2023



SCOPE OF AASHTO ACCREDITATION FOR:

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Asphalt Mixture

Standard:

Accredited Since:

R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	05/04/2017
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA)	05/04/2017
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	04/07/2008
T30	Mechanical Analysis of Extracted Aggregate	04/07/2008
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	04/07/2008
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/07/2008
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	08/28/2017
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	08/02/2017
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	04/07/2008
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	04/07/2008
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	04/07/2008
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	04/07/2008
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	04/07/2008
T324	Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)	01/27/2020
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	04/07/2008
T355	Density of Bituminous Concrete In Place by Nuclear Methods	09/27/2019
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	08/28/2017
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	08/02/2017
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/07/2008
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	06/28/2017
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	09/27/2019
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	04/07/2008
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	11/28/2022



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Asphalt Mixture (Continued)

Standard:

Accredited Since:

D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	04/07/2008
D5444	Mechanical Analysis of Extracted Aggregate	06/28/2017
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	04/07/2008
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	06/28/2017
D6931	Indirect Tensile Strength (IDT)	11/28/2022



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/27/2019
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	03/25/2015
T90	Plastic Limit of Soils (Atterberg Limits)	03/25/2015
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/07/2008
T100	Specific Gravity of Soils	05/04/2017
T134	Moisture-Density Relations of Soil-Cement Mixtures	09/27/2019
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/07/2008
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	08/28/2017
T191	Density of Soil In-Place by the Sand Cone Method	05/04/2017
T265	Laboratory Determination of Moisture Content of Soils	04/07/2008
T267	Determination of Organic Content in Soils by Loss on Ignition	08/25/2026
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/04/2017
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/27/2019
D558	Moisture-Density Relations of Soil-Cement Mixtures	09/27/2019
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/07/2008
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	04/07/2008
D1556	Density of Soil In-Place by the Sand Cone Method	05/04/2017
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/07/2008
D1633	Compressive Strength of Molded Soil-Cement Cylinders	08/25/2026
D2216	Laboratory Determination of Moisture Content of Soils	04/07/2008
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	05/04/2017
D2488	Description and Identification of Soils (Visual-Manual Procedure)	05/04/2017
D2844	Resistance R-Value and Expansion Pressure of Compacted Soils	08/28/2017



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Soil (Continued)

Standard:	Accredited Since:
D2937 Density of Soil in Place by the Drive-Cylinder Method	08/25/2026
D2974 Determination of Organic Content in Soils by Loss on Ignition	08/25/2026
D4253 Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	08/25/2026
D4254 Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	06/28/2017
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	03/25/2015
D4318 Plastic Limit of Soils (Atterberg Limits)	03/25/2015
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	08/23/2012
D4718 Oversize Particle Correction	09/27/2019
D4829 Expansion Index of Soils	08/28/2017
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	11/28/2022
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	06/09/2017



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	08/09/2018
R90	Sampling Aggregate	05/04/2017
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	08/09/2018
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	09/27/2019
T21	Organic Impurities in Fine Aggregates for Concrete	08/09/2018
T27	Sieve Analysis of Fine and Coarse Aggregates	05/17/2019
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/28/2022
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	08/09/2018
T85	Specific Gravity and Absorption of Coarse Aggregate	08/09/2018
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	11/28/2022
T112	Clay Lumps and Friable Particles in Aggregate	05/04/2017
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	05/01/2006
T210	Aggregate Durability Index	05/01/2006
T255	Total Moisture Content of Aggregate by Drying	08/09/2018
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	05/01/2006
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	03/25/2015
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	09/27/2019
C40	Organic Impurities in Fine Aggregates for Concrete	05/01/2006
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	05/01/2006
C127	Specific Gravity and Absorption of Coarse Aggregate	05/01/2006
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	05/01/2006
C136	Sieve Analysis of Fine and Coarse Aggregates	05/17/2019
C142	Clay Lumps and Friable Particles in Aggregate	05/04/2017



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Aggregate (Continued)

Standard:		Accredited Since:
C566	Total Moisture Content of Aggregate by Drying	05/01/2006
C702	Reducing Samples of Aggregate to Testing Size	05/01/2006
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	05/01/2006
D75	Sampling Aggregate	06/28/2017
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	05/01/2006
D3744	Aggregate Durability Index	05/01/2006
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	05/01/2006
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	05/01/2006



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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

01/04/2023

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

08/25/2026



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Concrete

Standard:

Accredited Since:

C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	08/13/2025
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	06/30/2021
C39	Compressive Strength of Cylindrical Concrete Specimens	05/01/2006
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	08/09/2018
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/13/2025
C138	Density (Unit Weight), Yield, and Air Content of Concrete	05/01/2006
C143	Slump of Hydraulic Cement Concrete	05/01/2006
C172	Sampling Freshly Mixed Concrete	05/01/2006
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	08/09/2018
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	05/01/2006
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	11/20/2013
C617 (10000 psi and below)	Capping Cylindrical Concrete Specimens	05/21/2025
C1064	Temperature of Freshly Mixed Portland Cement Concrete	05/01/2006
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	06/23/2011
C1542	Measuring Length of Concrete Cores	06/30/2021



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Masonry

Standard:

Accredited Since:

C140 (Reduced-Size Concrete Masonry Units) Sampling and Testing Concrete Masonry Units and Related Units		08/13/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/09/2018
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	06/30/2021
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	06/30/2021
C1019	Sampling and Testing Grout	08/09/2018
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	06/30/2021