



CERTIFICATE OF ACCREDITATION



Twining, Inc.

in

Long Beach, 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).

A handwritten signature in black ink, appearing to read 'Jim Tymon', is written over a horizontal line.

Jim Tymon,
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Matt Linneman', is written over a horizontal line.

Matt Linneman,
AASHTO COMP Chair

This certificate was generated on 10/27/2026 at 1:08 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 Long Beach, California, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/01/2001
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	06/14/2016
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	07/12/2016
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	01/10/2011
C1222 (Cement)	Evaluation of Laboratories Testing Hydraulic Cement	01/10/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	03/20/2013
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	11/02/2017
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	11/02/2017
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/20/2013
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/02/2017
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/12/2016
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/03/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/02/2017
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/02/2017
E329 (Steel Inspection)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/27/2023



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

in Long Beach, California, USA

Pavement Preservation

Standard:

Accredited Since:

D3910/D6372 Wet Track Abrasion Of Slurry Surfacing Systems

07/21/2020

TB-100 Wet Track Abrasion Of Slurry Surfacing Systems

06/27/2023



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	10/31/2005
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	10/31/2005
T30	Mechanical Analysis of Extracted Aggregate	10/31/2005
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	10/11/2019
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	10/31/2005
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	10/31/2005
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	10/31/2005
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	11/09/2012
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	10/31/2005
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	10/31/2005
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	10/31/2005
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	10/31/2005
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	10/31/2005
T355	Density of Bituminous Concrete In Place by Nuclear Methods	08/17/2021
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	10/11/2019
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	10/31/2005
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	10/31/2005
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	10/31/2005
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	10/11/2019
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	10/31/2005
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	08/17/2021
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	10/31/2005
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	06/27/2023



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

in Long Beach, California, USA

Asphalt Mixture (Continued)

Standard:

Accredited Since:

D5444	Mechanical Analysis of Extracted Aggregate	10/31/2005
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	10/31/2005
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	10/31/2005
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	10/31/2005



SCOPE OF AASHTO ACCREDITATION FOR:

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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	10/31/2005
T88	Particle Size Analysis of Soils by Hydrometer	10/31/2005
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	10/31/2005
T90	Plastic Limit of Soils (Atterberg Limits)	10/31/2005
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	10/31/2005
T100	Specific Gravity of Soils	10/31/2005
T134	Moisture-Density Relations of Soil-Cement Mixtures	10/31/2005
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	10/31/2005
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	10/31/2005
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	10/31/2005
T191	Density of Soil In-Place by the Sand Cone Method	10/31/2005
T208	Unconfined Compressive Strength of Cohesive Soil	10/31/2005
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	10/31/2005
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	10/31/2005
T265	Laboratory Determination of Moisture Content of Soils	10/31/2005
T267	Determination of Organic Content in Soils by Loss on Ignition	06/27/2023
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	10/31/2005
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	10/31/2005
D422	Particle Size Analysis of Soils by Hydrometer	10/31/2005
D558	Moisture-Density Relations of Soil-Cement Mixtures	10/31/2005
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	10/31/2005
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	10/31/2005
D854	Specific Gravity of Soils	10/31/2005



SCOPE OF AASHTO ACCREDITATION FOR:

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Soil (Continued)

Standard:	Accredited Since:
D1140 Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	10/31/2005
D1556 Density of Soil In-Place by the Sand Cone Method	10/31/2005
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	10/31/2005
D1633 Compressive Strength of Molded Soil-Cement Cylinders	06/27/2023
D2166 Unconfined Compressive Strength of Cohesive Soil	10/31/2005
D2216 Laboratory Determination of Moisture Content of Soils	10/31/2005
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	10/31/2005
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	10/31/2005
D2488 Description and Identification of Soils (Visual-Manual Procedure)	10/31/2005
D2844 Resistance R-Value and Expansion Pressure of Compacted Soils	10/31/2005
D2974 Determination of Organic Content in Soils by Loss on Ignition	06/27/2023
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	10/31/2005
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	10/31/2005
D4318 Plastic Limit of Soils (Atterberg Limits)	10/31/2005
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	10/31/2005
D4829 Expansion Index of Soils	10/31/2005
D4972 pH Testing of Soils	11/09/2012
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	06/27/2023
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	10/31/2005
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	07/21/2020



SCOPE OF AASHTO ACCREDITATION FOR:

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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	06/14/2016
R90	Sampling Aggregate	06/14/2016
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	06/14/2016
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	06/14/2016
T21	Organic Impurities in Fine Aggregates for Concrete	06/14/2016
T27	Sieve Analysis of Fine and Coarse Aggregates	06/14/2016
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	06/14/2016
T85	Specific Gravity and Absorption of Coarse Aggregate	06/14/2016
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	06/14/2016
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	02/10/2014
T112	Clay Lumps and Friable Particles in Aggregate	06/14/2016
T113	Lightweight Pieces in Aggregate	11/02/2017
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	03/01/2001
T210	Aggregate Durability Index	03/01/2001
T255	Total Moisture Content of Aggregate by Drying	06/14/2016
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	06/14/2016
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	06/14/2016
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	03/01/2001
C40	Organic Impurities in Fine Aggregates for Concrete	03/01/2001
C70	Surface Moisture in Fine Aggregate	02/10/2014
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	03/01/2001
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	03/01/2001
C123	Lightweight Pieces in Aggregate	11/02/2017



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

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Aggregate (Continued)

Standard:	Accredited Since:
C127 Specific Gravity and Absorption of Coarse Aggregate	03/01/2001
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	03/01/2001
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	03/01/2001
C136 Sieve Analysis of Fine and Coarse Aggregates	01/27/2012
C142 Clay Lumps and Friable Particles in Aggregate	03/01/2001
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	03/01/2001
C566 Total Moisture Content of Aggregate by Drying	03/01/2001
C702 Reducing Samples of Aggregate to Testing Size	03/01/2001
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	06/14/2016
D75 Sampling Aggregate	02/10/2014
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	03/01/2001
D3744 Aggregate Durability Index	03/01/2001
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	03/01/2001
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	03/01/2001



SCOPE OF AASHTO ACCREDITATION FOR:

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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

06/01/2010

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

06/01/2010



SCOPE OF AASHTO ACCREDITATION FOR:

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Iron and Steel

Standard:	Accredited Since:
M270-T266 Structural Steel: Charpy V-Notch	06/27/2023
A615 Carbon-Steel Bars, Deformed and Plain: Unit Weight	06/27/2023
A706 Low Alloy Steel Bars, Deformed and Plain: Unit Weight	06/27/2023
A775 Epoxy Coated Reinforcing Bars: Coating Flexibility (Bend Test)	11/09/2012
A775 Epoxy Coated Reinforcing Bars: Film Thickness	07/20/2015
A1064 Deformed Steel Wire: Bend Test	11/09/2012
A1064 Deformed Steel Wire: Unit Weight	06/27/2023
A1064 Plain Steel Wire: Bend Test	11/09/2012
A1064 Welded Deformed Steel Wire: Bend Test	11/09/2012
A1064 Welded Deformed Steel Wire: Unit Weight	06/27/2023
A1064 Welded Deformed Steel Wire: Weld Shear	11/09/2012
A1064 Welded Plain Steel Wire: Bend Test	11/09/2012
A1064 Welded Plain Steel Wire: Weld Shear	11/09/2012
A709-A6 Structural Steel: Tension (Elongation)	07/20/2015
A709-A6 Structural Steel: Tension (Ultimate Tensile Strength)	07/20/2015
A709-A6 Structural Steel: Tension (Yield Strength)	07/20/2015
A123-A90 Zinc Coatings on Iron and Steel: Thickness of Zinc (Stripping)	11/09/2012
A563-E18 Internally Threaded Fasteners (Nuts): Rockwell Hardness	07/20/2015
A709-E23 Structural Steel: Charpy V-Notch	11/09/2012
A775-G62 Epoxy Coated Reinforcing Bars: Coating Continuity (Holidays)	07/20/2015
A563-F606 Internally Threaded Fasteners (Nuts): Proof Load Determination	07/20/2015
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	07/20/2015
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	07/20/2015



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Iron and Steel (Continued)

Standard:	Accredited Since:
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	07/20/2015
A615-E290 Carbon-Steel Bars, Deformed and Plain: Bend Test	02/23/2009
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	07/20/2015
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	07/20/2015
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	07/20/2015
A706-E290 Low Alloy Steel Bars, Deformed and Plain: Bend Test	11/09/2012
A970-A370 Headed Steel Bars: Tension (Elongation)	07/20/2015
A970-A370 Headed Steel Bars: Tension (Ultimate Tensile Strength)	07/20/2015
A970-A370 Headed Steel Bars: Tension (Yield Strength)	07/20/2015
A1064-A370 Deformed Steel Wire: Tension (Ultimate Tensile Strength)	07/20/2015
A1064-A370 Deformed Steel Wire: Tension (Yield Strength)	07/20/2015
A1064-A370 Plain Steel Wire: Tension (Reduction of Area)	07/20/2015
A1064-A370 Plain Steel Wire: Tension (Ultimate Tensile Strength)	07/20/2015
A1064-A370 Plain Steel Wire: Tension (Yield Strength)	07/20/2015
A1064-A370 Welded Deformed Steel Wire: Tension (Ultimate Tensile Strength)	07/20/2015
A1064-A370 Welded Deformed Steel Wire: Tension (Yield Strength)	07/20/2015
A1064-A370 Welded Plain Steel Wire: Tension (Reduction of Area)	07/20/2015
A1064-A370 Welded Plain Steel Wire: Tension (Ultimate Tensile Strength)	07/20/2015
A1064-A370 Welded Plain Steel Wire: Tension (Yield Strength)	07/20/2015
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Elongation)	07/20/2015
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Ultimate Tensile Strength)	07/20/2015
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Yield Strength)	07/20/2015
A615-A1034 Carbon-Steel Bars, Deformed and Plain: Testing Mechanical Splices	11/09/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

in Long Beach, California, USA

Iron and Steel (Continued)

Standard:	Accredited Since:
A706-A1034 Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical Splices	11/09/2012
F3125 Externally Threaded Fasteners (Bolts): Rotational Capacity	06/27/2023
F436-E18 Hardened Steel Washers: Rockwell Hardness	07/20/2015
F3125-E18 Externally Threaded Fasteners (Bolts): Rockwell Hardness	11/09/2012
F1554-A370 Anchor Bolts: Tension (Elongation)	07/20/2015
F1554-A370 Anchor Bolts: Tension (Ultimate Tensile Strength of bar stock)	07/20/2015
F1554-A370 Anchor Bolts: Tension (Yield Strength)	07/20/2015
F1554-F606 Anchor Bolts: Tension (Ultimate Tensile Strength of finished bolts)	06/27/2023
F3125-F606 Externally Threaded Fasteners (Bolts): Proof Load Determination	11/09/2012
F3125-F606 Externally Threaded Fasteners (Bolts): Ultimate Tensile Strength	11/09/2012
A615-CT670 Carbon-Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	11/09/2012
A706-CT670 Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	11/09/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Cement - Physical Tests

Standard:

Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/14/2016
R71	Sampling and the Amount of Testing of Hydraulic Cement	06/14/2016
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	06/14/2016
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	10/02/2024
T107	Autoclave Expansion of Hydraulic Cement	06/14/2016
T129	Normal Consistency of Hydraulic Cement	06/14/2016
T131	Time of Setting of Hydraulic Cement by Vicat Needle	06/14/2016
T133	Density of Hydraulic Cement	09/17/2018
T137	Air Content of Hydraulic Cement Mortar	06/14/2016
T153	Fineness of Hydraulic Cement by Air Permeability Apparatus	06/14/2016
T154	Time of Setting of Hydraulic-Cement Paste by Gillmore Needles	06/14/2016
T186	Early Stiffening of Hydraulic Cement (Paste Method)	06/14/2016
T192	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	07/12/2016
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	10/02/2024
C151	Autoclave Expansion of Hydraulic Cement	04/29/2004
C183	Sampling and the Amount of Testing of Hydraulic Cement	04/29/2004
C185	Air Content of Hydraulic Cement Mortar	04/29/2004
C187	Normal Consistency of Hydraulic Cement	04/29/2004
C188	Density of Hydraulic Cement	09/17/2018
C191	Time of Setting of Hydraulic Cement by Vicat Needle	04/29/2004
C204	Fineness of Hydraulic Cement by Air Permeability Apparatus	04/29/2004
C266	Time of Setting of Hydraulic-Cement Paste by Gillmore Needles	04/29/2004
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	04/29/2004



SCOPE OF AASHTO ACCREDITATION FOR:

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in Long Beach, California, USA

Cement - Physical Tests (Continued)

Standard:

Accredited Since:

C430	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	07/12/2016
C451	Early Stiffening of Hydraulic Cement (Paste Method)	04/29/2004
C452	Potential Expansion of Portland-Cement Mortars Exposed to Portland Cement	05/28/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/30/2014
C1012	Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	04/18/2011
C1038	Expansion of Hydraulic Cement Mortar Bars Stored in Water	04/18/2011
C1437	Flow of Hydraulic Cement Mortar	04/29/2004
C1702	Measurement of Heat of Hydration of Hydraulic Cementitious Materials Using Isothermal Conduction Calorimetry	04/21/2025



SCOPE OF AASHTO ACCREDITATION FOR:

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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	01/07/2014
R39	Making and Curing Concrete Test Specimens in the Laboratory	04/04/2011
R60	Sampling Freshly Mixed Concrete	03/01/2001
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	03/01/2001
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	03/01/2001
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	04/21/2025
T22	Compressive Strength of Cylindrical Concrete Specimens	03/01/2001
T24 (Drilling Cores of Concrete)	Drilling Cores of Concrete	04/04/2011
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	04/04/2011
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	04/04/2011
T119	Slump of Hydraulic Cement Concrete	07/12/2016
T121	Density (Unit Weight), Yield, and Air Content of Concrete	03/01/2001
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	04/04/2011
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	03/01/2001
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	04/04/2011
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	03/01/2001
T197	Time of Setting of Concrete Mixtures by Penetration Resistance	04/04/2011
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	04/04/2011
T231 (8000 psi and below)	Capping Cylindrical Concrete Specimens	04/21/2025
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	04/04/2011
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	06/14/2016
T309	Temperature of Freshly Mixed Portland Cement Concrete	03/01/2001
T325	Estimating Concrete Strength by the Maturity Method	09/16/2021



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Concrete (Continued)

Standard:		Accredited Since:
T336	Coefficient of Thermal Expansion of Hydraulic Cement Concrete	09/17/2018
T345	Passing Ability of Self-Consolidating Concrete by J-Ring	04/21/2025
T347	Slump Flow of Self-Consolidating Concrete	09/16/2021
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	03/01/2001
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	03/01/2001
C39	Compressive Strength of Cylindrical Concrete Specimens	03/01/2001
C42 (Drilling Cores of Concrete)	Drilling Cores of Concrete	03/01/2001
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	03/01/2001
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	03/01/2001
C138	Density (Unit Weight), Yield, and Air Content of Concrete	03/01/2001
C143	Slump of Hydraulic Cement Concrete	07/12/2016
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	03/01/2001
C172	Sampling Freshly Mixed Concrete	03/01/2001
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	03/01/2001
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	03/01/2001
C192	Making and Curing Concrete Test Specimens in the Laboratory	03/01/2001
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	03/01/2001
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	04/21/2025
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	03/01/2001
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	03/01/2001
C495	Compressive Strength of Lightweight Insulating Concrete	03/01/2001
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	03/01/2001
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	01/07/2014



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Concrete (Continued)

Standard:

Accredited Since:

C512	Creep of Concrete in Compression	02/10/2014
C567	Determining Density of Structural Lightweight Concrete	02/10/2014
C597	Pulse Velocity Through Concrete	09/16/2021
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	04/21/2025
C642	Density, Absorption, and Voids in Hardened Concrete	02/10/2014
C805	Rebound Number of Hardened Concrete	03/01/2001
C827	Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures	09/17/2018
C876	Corrosion Potentials of Uncoated Reinforcing Steel in Concrete	09/17/2018
C939 (Pre-Mixed)	Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method - Pre-Mixed Grout)	05/05/2016
C940	Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory	09/27/2019
C942 (Pre-Mixed)	Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory (Pre-Mixed Grout)	04/21/2025
C1040	In-Place Density of Unhardened and Hardened Concrete, Including Roller Compacted Concrete, By Nuclear Methods	02/15/2026
C1064	Temperature of Freshly Mixed Portland Cement Concrete	03/01/2001
C1074	Estimating Concrete Strength by the Maturity Method	09/16/2021
C1090	Measuring Changes in Height of Cylindrical Specimens of Hydraulic-Cement Grout	02/10/2014
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	09/16/2021
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	03/01/2001
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	04/04/2011
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	04/04/2011
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	04/18/2011
C1383	Measuring the P-Wave Speed and the Thickness of Concrete Plates Using the Impact-Echo Method	09/17/2018
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	04/18/2011
C1581	Determining Age at Cracking and Induced Tensile Stress	09/17/2018



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

in Long Beach, California, USA

Concrete (Continued)

Standard:

Accredited Since:

C1583	Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)	09/16/2021
C1604	Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete	09/16/2021
C1609	Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)	04/04/2011
C1610	Static Segregation of Self-Consolidating Concrete Using Column Technique	09/16/2021
C1611	Slump Flow of Self-Consolidating Concrete	09/16/2021
C1621	Passing Ability of Self-Consolidating Concrete by J-Ring	09/16/2021



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

in Long Beach, California, USA

Controlled Low Strength Material (CLSM)

Standard:

Accredited Since:

D4832 Preparation and Testing of Controlled Low Strength Material (CLSM) Test Cylinders

09/16/2021

D5971 Sampling Freshly Mixed Controlled Low-Strength Material (CLSM)

09/16/2021



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Masonry

Standard:

Accredited Since:

C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	04/04/2011
C140 (Full-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	04/21/2025
C185	Air Content of Hydraulic Cement Mortar	02/10/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/10/2014
C426	Linear Drying Shrinkage of Concrete Masonry Units	04/21/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/10/2014
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	09/16/2021
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	04/04/2011
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	02/10/2014
C1019	Sampling and Testing Grout	05/19/2006
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	04/21/2025
C1437	Flow of Hydraulic Cement Mortar	02/10/2014
C1506	Water Retention of Hydraulic Cement-Based Mortars and Plasters	02/10/2014
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	07/12/2016



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Pozzolan

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/14/2016
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	06/14/2016
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	06/14/2016
T107	Autoclave Expansion of Hydraulic Cement	06/14/2016
T129	Normal Consistency of Hydraulic Cement	06/14/2016
T133	Density of Hydraulic Cement	06/14/2016
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	09/16/2021
T192	Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	07/12/2016
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	02/10/2014
C151	Autoclave Expansion of Hydraulic Cement	02/10/2014
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	09/17/2018
C187	Normal Consistency of Hydraulic Cement	02/10/2014
C188	Density of Hydraulic Cement	02/10/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/10/2014
C311 (Moisture Content)	Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete (Moisture Content)	04/21/2025
C430	Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	07/12/2016
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/10/2014
C1012	Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	02/10/2014
C1437	Flow of Hydraulic Cement Mortar	02/10/2014



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.
in Long Beach, California, USA

Slag Cement

Standard:

Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/14/2016
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	06/14/2016
T106	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	06/14/2016
T133	Density of Hydraulic Cement	06/14/2016
T137	Air Content of Hydraulic Cement Mortar	06/14/2016
T192	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	07/12/2016
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	02/10/2014
C185	Air Content of Hydraulic Cement Mortar	06/14/2016
C188	Density of Hydraulic Cement	02/10/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	02/10/2014
C430	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	07/12/2016
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/10/2014
C1038	Expansion of Hydraulic Cement Mortar Bars Stored in Water	09/16/2021
C1437	Flow of Hydraulic Cement Mortar	02/10/2014



SCOPE OF AASHTO ACCREDITATION FOR:

Twining, Inc.

in Long Beach, California, USA

Ultra-High Performance Concrete (UHPC)

Standard:

Accredited Since:

C1856 (Sampling)	Sampling Specimens of Ultra-High Performance Concrete	04/21/2025
C1856 (Thermal Treatment)	Thermal Treatment of Ultra-High Performance Concrete	04/21/2025
C1856-C31 (Cylinders)	Making Ultra-High Performance Concrete Test Specimens in the Field (Cylinders)	04/21/2025
C1856-C39	Compressive Strength of Cylindrical Ultra-High Performance Concrete Specimens	04/21/2025
C1856-C42 (Testing Drilled Cores of Ultra-High Performance Concrete)	Testing Drilled Cores of Ultra-High Performance Concrete	04/21/2025
C1856-C157	Length Change of Hardened Ultra-High Performance Concrete	04/21/2025
C1856-C191	Time of Setting of Hydraulic Cement used in Ultra-High Performance Concrete by Vicat Needle	04/21/2025
C1856-C192 (Cylinders)	Making Ultra-High Performance Concrete Test Specimens in the Laboratory (Cylinders)	04/21/2025
C1856-C341	Preparation and Conditioning of Cast, Drilled, or Sawed Specimens of Ultra-High Performance Concrete Used for Length Change Measurements	04/21/2025
C1856-C469	Static Modulus of Elasticity and Poisson's Ratio of Ultra-High Performance Concrete in Compression	04/21/2025
C1856-C511	Curing Specimens of Ultra-High Performance Concrete	04/21/2025
C1856-C512	Creep of Ultra-High Performance Concrete in Compression	04/21/2025
C1856-C1202	Electrical Indication of Ultra-High Performance Concrete's Ability to Resist Chloride Ion Penetration	04/21/2025
C1856-C1437	Flow of Cement Mortar used in Ultra-High Performance Concrete	04/21/2025
C1856-C1609	Flexural Performance of Fiber-Reinforced Ultra-High Performance Concrete (Using Beam With Third-Point Loading)	04/21/2025