AASHTO ACCREDITED

Certificate of Accreditation

American Association of State Highway and Transportation Officials

AASHTO

Anbessaw Consulting, Inc.

dba

The Quality Firm

in

Pomona, 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

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Scope of AASHTO Accreditation for:

Anbessaw Consulting, Inc. dba The Quality Firm

in Pomona, California, USA

Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	02/05/2021
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	03/08/2023
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	02/05/2021
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/05/2021
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	02/18/2021
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	02/18/2021
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	02/18/2021
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/05/2021
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/18/2021
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/05/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/18/2021

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Asphalt Mixture

Standard:		Accredited Since:
R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	05/11/2026
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA)	05/11/2026
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	05/11/2026
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/11/2026
R97	Sampling Bituminous Paving Mixtures	05/11/2026
T30	Mechanical Analysis of Extracted Aggregate	05/11/2026
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/11/2026
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/11/2026
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/11/2026
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	05/11/2026
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	05/11/2026
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/11/2026
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	05/11/2026
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	05/11/2026
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/11/2026
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	05/11/2026
T324	Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)	05/11/2026
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	05/11/2026
T355	Density of Bituminous Concrete In Place by Nuclear Methods	02/18/2021
D979	Sampling Bituminous Paving Mixtures	05/11/2026
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	05/11/2026
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	05/11/2026
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	05/11/2026

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Asphalt Mixture (Continued)

Standard:		Accredited Since:
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/11/2026
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/11/2026
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	02/18/2021
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/11/2026
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	05/11/2026
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	05/11/2026
D5444	Mechanical Analysis of Extracted Aggregate	05/11/2026
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/11/2026
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	05/11/2026
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/11/2026
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/11/2026

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Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/18/2021
T88	Particle Size Analysis of Soils by Hydrometer	03/08/2023
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	02/18/2021
T90	Plastic Limit of Soils (Atterberg Limits)	02/18/2021
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/18/2021
T100	Specific Gravity of Soils	06/29/2026
T134	Moisture-Density Relations of Soil-Cement Mixtures	02/18/2021
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	05/11/2026
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	02/18/2021
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	05/11/2026
T191	Density of Soil In-Place by the Sand Cone Method	05/11/2026
T193	The California Bearing Ratio	05/11/2026
T208	Unconfined Compressive Strength of Cohesive Soil	01/26/2023
T265	Laboratory Determination of Moisture Content of Soils	02/18/2021
T267	Determination of Organic Content in Soils by Loss on Ignition	05/11/2026
T288	Minimum Soil Resistivity	01/21/2025
T289	pH of Soils for Corrosion Testing	01/21/2025
T290 (Method B)	Determining Water-Soluble Sulfate Ion Content in Soil	01/21/2025
T291	Determining Water-Soluble Chloride Ion Content in Soil	03/07/2025
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/18/2021
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/18/2021
D422	Particle Size Analysis of Soils by Hydrometer	03/08/2023
D558	Moisture-Density Relations of Soil-Cement Mixtures	02/18/2021

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Soil (Continued)

Standard:		Accredited Since:
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	05/11/2026
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/18/2021
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	02/18/2021
D1556	Density of Soil In-Place by the Sand Cone Method	05/11/2026
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	02/18/2021
D1633	Compressive Strength of Molded Soil-Cement Cylinders	01/26/2023
D1883	The California Bearing Ratio	05/11/2026
D2166	Unconfined Compressive Strength of Cohesive Soil	01/26/2023
D2216	Laboratory Determination of Moisture Content of Soils	02/18/2021
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	02/18/2021
D2488	Description and Identification of Soils (Visual-Manual Procedure)	02/18/2021
D2844	Resistance R-Value and Expansion Pressure of Compacted Soils	05/11/2026
D2974	Determination of Organic Content in Soils by Loss on Ignition	05/11/2026
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	02/18/2021
D4318	Plastic Limit of Soils (Atterberg Limits)	02/18/2021
D4643	Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	02/18/2021
D4718	Oversize Particle Correction	01/26/2023
D4829	Expansion Index of Soils	02/18/2021
D4972	pH Testing of Soils	01/21/2025
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	01/26/2023
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/18/2021
G51	Measuring pH for Corrosion Testing	01/21/2025
G57	Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method	01/21/2025

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Soil (Continued)

Standard:		Accredited Since:
G187	Soil Resistivity Using the Two-Electrode Soil Box	01/21/2025

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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	02/05/2021
R90	Sampling Aggregate	02/05/2021
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	02/05/2021
T19	Bulk Density (“Unit Weight”) and Voids in Aggregate	02/05/2021
T21	Organic Impurities in Fine Aggregates for Concrete	02/05/2021
T27	Sieve Analysis of Fine and Coarse Aggregates	02/05/2021
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	05/11/2026
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/05/2021
T85	Specific Gravity and Absorption of Coarse Aggregate	02/05/2021
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/26/2023
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	05/11/2026
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	02/05/2021
T112	Clay Lumps and Friable Particles in Aggregate	02/05/2021
T113	Lightweight Pieces in Aggregate	02/05/2021
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	02/18/2021
T210	Aggregate Durability Index	02/18/2021
T255	Total Moisture Content of Aggregate by Drying	02/05/2021
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	02/05/2021
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	01/26/2023
C29	Bulk Density (“Unit Weight”) and Voids in Aggregate	02/05/2021
C40	Organic Impurities in Fine Aggregates for Concrete	02/05/2021
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	02/05/2021
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	02/05/2021

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Aggregate (Continued)

Standard:		Accredited Since:
C123	Lightweight Pieces in Aggregate	02/05/2021
C127	Specific Gravity and Absorption of Coarse Aggregate	02/05/2021
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/05/2021
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/26/2023
C136	Sieve Analysis of Fine and Coarse Aggregates	02/05/2021
C142	Clay Lumps and Friable Particles in Aggregate	02/05/2021
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/26/2023
C566	Total Moisture Content of Aggregate by Drying	02/05/2021
C702	Reducing Samples of Aggregate to Testing Size	02/05/2021
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	02/05/2021
D75	Sampling Aggregate	02/05/2021
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	05/11/2026
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	02/18/2021
D3744	Aggregate Durability Index	02/18/2021
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	08/05/2025
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	01/26/2023

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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	02/18/2021
E736 Cohesion/Adhesion of Sprayed Fire-Resistive MaterialsApplied to Structural Members	05/11/2026

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Iron and Steel

Standard:		Accredited Since:
M31-T244	Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	01/26/2023
M31-T244	Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	01/26/2023
M31-T244	Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	01/26/2023
M31-T285	Carbon-Steel Bars, Deformed and Plain: Bend Test	01/26/2023
M270-T244	Structural Steel: Tension (Elongation)	05/11/2026
M270-T244	Structural Steel: Tension (Ultimate Tensile Strength)	05/11/2026
M270-T244	Structural Steel: Tension (Yield Strength)	05/11/2026
T244	Externally Threaded Fasteners (Bolts): Proof Load Determination	01/26/2023
T244	Externally Threaded Fasteners (Bolts): Ultimate Tensile Strength	01/26/2023
A615	Carbon-Steel Bars, Deformed and Plain: Unit Weight	01/26/2023
A706	Low Alloy Steel Bars, Deformed and Plain: Unit Weight	01/26/2023
A970	Headed Steel Bars: Bend Test	01/26/2023
A709-A6	Structural Steel: Tension (Elongation)	05/11/2026
A709-A6	Structural Steel: Tension (Ultimate Tensile Strength)	05/11/2026
A709-A6	Structural Steel: Tension (Yield Strength)	05/11/2026
A563-E18	Internally Threaded Fasteners (Nuts): Rockwell Hardness	01/26/2023
A563-F606	Internally Threaded Fasteners (Nuts): Proof Load Determination	01/26/2023
A615-A370	Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	01/26/2023
A615-A370	Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	01/26/2023
A615-A370	Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	01/26/2023
A615-E290	Carbon-Steel Bars, Deformed and Plain: Bend Test	01/26/2023
A706-A370	Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	01/26/2023
A706-A370	Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	01/26/2023

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Iron and Steel (Continued)

Standard:		Accredited Since:
A706-A370	Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	01/26/2023
A706-E290	Low Alloy Steel Bars, Deformed and Plain: Bend Test	01/26/2023
A970-A370	Headed Steel Bars: Tension (Elongation)	01/26/2023
A970-A370	Headed Steel Bars: Tension (Ultimate Tensile Strength)	01/26/2023
A970-A370	Headed Steel Bars: Tension (Yield Strength)	01/26/2023
A615-A1034	Carbon-Steel Bars, Deformed and Plain: Testing Mechanical Splices	01/26/2023
A706-A1034	Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical Splices	01/26/2023
F3125	Externally Threaded Fasteners (Bolts): Rotational Capacity	01/26/2023
F436-E18	Hardened Steel Washers: Rockwell Hardness	01/26/2023
F3125-E18	Externally Threaded Fasteners (Bolts): Rockwell Hardness	01/26/2023
F1554-A370	Anchor Bolts: Tension (Elongation)	01/26/2023
F1554-A370	Anchor Bolts: Tension (Ultimate Tensile Strength of bar stock)	01/26/2023
F1554-A370	Anchor Bolts: Tension (Yield Strength)	01/26/2023
F1554-F606	Anchor Bolts: Tension (Ultimate Tensile Strength of finished bolts)	01/26/2023
F3125-F606	Externally Threaded Fasteners (Bolts): Proof Load Determination	01/26/2023
F3125-F606	Externally Threaded Fasteners (Bolts): Ultimate Tensile Strength	01/26/2023
A615-CT670	Carbon-Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	01/26/2023
A706-CT670	Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	01/26/2023

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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	02/05/2021
R39	Making and Curing Concrete Test Specimens in the Laboratory	02/05/2021
R60	Sampling Freshly Mixed Concrete	02/05/2021
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	02/05/2021
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/05/2021
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	08/05/2025
T22	Compressive Strength of Cylindrical Concrete Specimens	02/05/2021
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	02/05/2021
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/05/2021
T119	Slump of Hydraulic Cement Concrete	02/05/2021
T121	Density (Unit Weight), Yield, and Air Content of Concrete	02/05/2021
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	08/05/2025
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	02/05/2021
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	08/05/2025
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/05/2021
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	08/05/2025
T231 (5000 psi and below)	Capping Cylindrical Concrete Specimens	05/13/2025
T309	Temperature of Freshly Mixed Portland Cement Concrete	02/05/2021
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	02/05/2021
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/05/2021
C39	Compressive Strength of Cylindrical Concrete Specimens	02/05/2021
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	02/05/2021
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/05/2021

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Concrete (Continued)

Standard:		Accredited Since:
C138	Density (Unit Weight), Yield, and Air Content of Concrete	02/05/2021
C143	Slump of Hydraulic Cement Concrete	02/05/2021
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	08/05/2025
C172	Sampling Freshly Mixed Concrete	02/05/2021
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/05/2021
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	08/05/2025
C192	Making and Curing Concrete Test Specimens in the Laboratory	02/05/2021
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	02/05/2021
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	08/05/2025
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	08/05/2025
C495	Compressive Strength of Lightweight Insulating Concrete	02/05/2021
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	08/05/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/05/2021
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	05/13/2025
C1064	Temperature of Freshly Mixed Portland Cement Concrete	02/05/2021
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	02/05/2021
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/05/2021
C1542	Measuring Length of Concrete Cores	02/05/2021
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	08/05/2025
C1604	Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete	02/05/2021

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Masonry

Standard:		Accredited Since:
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	08/05/2025
C185	Air Content of Hydraulic Cement Mortar	08/05/2025
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	08/05/2025
C426	Linear Drying Shrinkage of Concrete Masonry Units	02/05/2021
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/05/2021
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	02/05/2021
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	02/05/2021
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	02/05/2021
C1019	Sampling and Testing Grout	02/05/2021
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	05/13/2025
C1437	Flow of Hydraulic Cement Mortar	08/05/2025
C1506	Water Retention of Hydraulic Cement-Based Mortars and Plasters	08/05/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	02/05/2021

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