



CERTIFICATE OF ACCREDITATION



SGS TEC Services, Inc.

in

Lawrenceville, Georgia, 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', written over a horizontal line.

Jim Tymon,
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Moe Jamshidi', written over a horizontal line.

Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 12/02/2022 at 12:53 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	12/15/2004
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	06/01/2010
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1222 (Cement)	Evaluation of Laboratories Testing Hydraulic Cement	01/10/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/12/2014
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/12/2014



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Dimension Stone

Standard:

Accredited Since:

C97	Absorption and Bulk Specific Gravity of Dimension Stone	02/09/2017
C99	Modulus of Rupture of Dimension Stone	02/09/2017
C170	Compressive Strength of Dimension Stone	02/09/2017
C241	Abrasion Resistance of Stone Subjected to Foot Traffic	02/09/2017
C880	Flexural Strength of Dimension Stone	02/09/2017
C1353	Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform Abraser	02/09/2017



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Rock

Standard:

Accredited Since:

D5240 Evaluation of Durability of Rock for Erosion Control Using Sodium Sulfate or Magnesium Sulfate	05/31/2017
D5312 Evaluation of Durability of Rock for Erosion Control Under Freezing and Thawing Conditions	05/31/2017
D5313 Durability of Rock for Erosion Control Under Wetting and Drying Conditions	05/31/2017



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Aggregate

Standard:

Accredited Since:

Standard:	Accredited Since:
T335 Determining the Percentage of Fractured Particles in Coarse Aggregate	07/18/2022
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	12/15/2004
C40 Organic Impurities in Fine Aggregates for Concrete	12/15/2004
C87 Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	12/15/2004
C88 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	01/01/2011
C117 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	12/15/2004
C123 Lightweight Pieces in Aggregate	08/12/2014
C127 Specific Gravity and Absorption of Coarse Aggregate	12/15/2004
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	12/15/2004
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	12/15/2004
C136 Sieve Analysis of Fine and Coarse Aggregates	06/02/2011
C142 Clay Lumps and Friable Particles in Aggregate	12/15/2004
C295 Petrographic Examination of Aggregates for Concrete	02/07/2017
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	12/15/2004
C566 Total Moisture Content of Aggregate by Drying	12/15/2004
C641 Iron Staining Materials in Lightweight Concrete Aggregates	08/12/2014
C702 Reducing Samples of Aggregate to Testing Size	12/15/2004
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	08/12/2014
D75 Sampling Aggregate	08/12/2014
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	07/09/2019
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	08/12/2014
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	02/07/2017
CRD-C130 Estimating Scratch Test Hardness of Coarse Aggregate Particles	07/09/2019



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Iron and Steel

Standard:

Accredited Since:

A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	02/07/2017
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	02/07/2017
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	02/07/2017
A615-E290 Carbon-Steel Bars, Deformed and Plain: Bend Test	07/09/2019
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	02/07/2017
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	02/07/2017
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	02/07/2017
A706-E290 Low Alloy Steel Bars, Deformed and Plain: Bend Test	07/09/2019



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Concrete

Standard:		Accredited Since:
T336	Coefficient of Thermal Expansion of Hydraulic Cement Concrete	02/09/2017
C31	Making and Curing Concrete Test Specimens in the Field	12/15/2004
C39	Compressive Strength of Cylindrical Concrete Specimens	12/15/2004
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	12/15/2004
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	12/15/2004
C138	Density (Unit Weight), Yield, and Air Content of Concrete	12/15/2004
C143	Slump of Hydraulic Cement Concrete	12/15/2004
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	12/15/2004
C172	Sampling Freshly Mixed Concrete	12/15/2004
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	12/15/2004
C192	Making and Curing Concrete Test Specimens in the Laboratory	12/15/2004
C215	Fundamental Transverse, Longitudinal and Torsional Frequencies of Concrete Specimens	12/15/2004
C227	Potential Alkali Reactivity of Cement-Aggregate Combinations (Mortar-Bar Method)	12/15/2004
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	12/15/2004
C232	Bleeding of Concrete	12/15/2004
C293	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	08/12/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	07/18/2022
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	12/15/2004
C418	Abrasion Resistance of Concrete by Sandblasting	08/12/2014
C457	Microscopical Determination of Parameters of the Air-Void System in Hardened Concrete	12/15/2004
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	12/15/2004
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	12/15/2004
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/28/2013



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Concrete (Continued)

Standard:		Accredited Since:
C512	Creep of Concrete in Compression	02/28/2013
C567	Determining Density of Structural Lightweight Concrete	12/15/2004
C597	Pulse Velocity Through Concrete	07/09/2019
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	07/18/2022
C642	Density, Absorption, and Voids in Hardened Concrete	12/15/2004
C666	Resistance of Concrete to Rapid Freezing and Thawing	12/15/2004
C672	Scaling Resistance of Concrete Surfaces Exposed to De-icing Chemicals	12/15/2004
C684	Making, Accelerated Curing, and Testing Concrete Compression Test Specimens	12/15/2004
C779	Abrasion Resistance of Horizontal Concrete Surfaces	07/18/2022
C805	Rebound Number of Hardened Concrete	08/12/2014
C827	Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures	12/15/2004
C856	Petrographic Examination of Hardened Concrete	11/05/2020
C878	Restrained Expansion of Shrinkage-Compensating Concrete	08/12/2014
C882	Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear	12/15/2004
C884	Thermal Compatibility Between Concrete and an Epoxy-Resin Overlay	07/09/2019
C939 (Pre-Mixed)	Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method - Pre-Mixed Grout)	01/01/2011
C942 (Pre-Mixed)	Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory (Pre-Mixed Grout)	08/12/2014
C944	Abrasion Resistance of Concrete or Mortar Surfaces by the Rotating-Cutter Method	12/15/2004
C1064	Temperature of Freshly Mixed Portland Cement Concrete	12/15/2004
C1074	Estimating Concrete Strength by the Maturity Method	08/12/2014
C1090	Measuring Changes in Height of Cylindrical Specimens of Hydraulic-Cement Grout	04/02/2009
C1105	Length Change of Concrete Due to Alkali-Carbonate Rock Reaction	08/12/2014
C1138	Abrasion Resistance of Concrete (Underwater Method)	02/07/2017



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Concrete (Continued)

Standard:	Accredited Since:
C1140 (Obtaining and Testing Specimens) Preparing and Testing Specimens from Shotcrete Test Panels	07/18/2022
C1152 Acid-Soluble Chloride in Mortar and Concrete	02/09/2017
C1202 Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	12/15/2004
C1218 Water-Soluble Chloride in Mortar and Concrete	02/09/2017
C1231 (7000 psi and below) Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/28/2013
C1260 Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	12/15/2004
C1293 Determination of Length Change of Concrete Due to Alkali-Silica Reaction	08/12/2014
C1383 Measuring the P-Wave Speed and the Thickness of Concrete Plates Using the Impact-Echo Method	12/15/2004
C1399 Obtaining Average Residual-Strength of Fiber-Reinforced Concrete	12/15/2004
C1437 Flow of Hydraulic Cement Mortar	07/18/2022
C1542 Measuring Length of Concrete Cores	08/12/2014
C1550 Flexural Toughness of Fiber Reinforced Concrete (Using Centrally Loaded Round Panel)	02/07/2017
C1567 Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	12/15/2004
C1579 Evaluating Plastic Shrinkage Cracking of Restrained Fiber Reinforced Concrete (Using a Steel Form Insert)	02/09/2017
C1581 Determining Age at Cracking and Induced Tensile Stress	02/28/2013
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)	12/15/2004
C1603 Measurement of Solids in Water	07/18/2022
C1609 Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)	12/15/2004
C1610 Static Segregation of Self-Consolidating Concrete Using Column Technique	08/12/2014
C1611 Slump Flow of Self-Consolidating Concrete	08/12/2014
C1621 Passing Ability of Self-Consolidating Concrete by J-Ring	08/12/2014
C1712 Rapid Assessment of Static Segregation Resistance of Self-Consolidating Concrete Using Penetration Test	08/12/2014
C1741 Bleed Stability of Cementitious Post-Tensioning Tendon Grout	08/12/2014



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Concrete (Continued)

Standard:		Accredited Since:
E488	Strength of Anchors in Concrete Elements	07/09/2019
G109	Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments	07/09/2019
CRD-C48	Water Permeability of Concrete	07/18/2022
CRD-C61	Determining the Resistance of Freshly Mixed Concrete to Washing Out in Water	07/09/2019



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Ultra-High Performance Concrete (UHPC)

Standard:

Accredited Since:

C1856-C31	Making Ultra-High Performance Concrete Test Specimens in the Field	07/18/2022
C1856-C39	Compressive Strength of Cylindrical Ultra-High Performance Concrete Specimens	07/18/2022
C1856-C42	Obtaining Drilled Cores and Sawed Beams of Ultra-High Performance Concrete	07/18/2022
C1856-C157	Length Change of Hardened Ultra-High Performance Concrete	07/18/2022
C1856-C191	Time of Setting of Hydraulic Cement used in Ultra-High Performance Concrete by Vicat Needle	07/18/2022
C1856-C192	Making Ultra-High Performance Concrete Test Specimens in the Laboratory	07/18/2022
C1856-C469	Static Modulus of Elasticity and Poisson's Ratio of Ultra-High Performance Concrete in Compression	07/18/2022
C1856-C512	Creep of Ultra-High Performance Concrete in Compression	07/18/2022
C1856-C666	Resistance of Ultra-High Performance Concrete to Rapid Freezing and Thawing	07/18/2022
C1856-C944	Abrasion Resistance of Ultra-High Performance Concrete Surfaces by the Rotating-Cutter Method	07/18/2022
C1856-C1202	Electrical Indication of Ultra-High Performance Concrete's Ability to Resist Chloride Ion Penetration	07/18/2022
C1856-C1437	Flow of Cement Mortar used in Ultra-High Performance Concrete	07/18/2022
C1856-C1609	Flexural Performance of Fiber-Reinforced Ultra-High Performance Concrete (Using Beam With Third-Point Loading)	07/18/2022



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Cement - Physical Tests

Standard:	Accredited Since:
C109 Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/15/2004
C114 (Loss on Ignition) Loss on Ignition – Reference	07/09/2019
C151 Autoclave Expansion of Portland Cement	12/15/2004
C183 Sampling and the Amount of Testing of Hydraulic Cement	12/15/2004
C185 Air Content of Hydraulic Cement Mortar	12/15/2004
C187 Normal Consistency of Hydraulic Cement	12/15/2004
C188 Density of Hydraulic Cement	07/09/2019
C191 Time of Setting of Hydraulic Cement by Vicat Needle	12/15/2004
C204 Fineness of Hydraulic Cement by Air Permeability Apparatus	12/15/2004
C266 Time of Setting of Hydraulic-Cement Paste by Gillmore Needles	02/07/2017
C305 Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/15/2004
C348 Flexural Strength of Hydraulic-Cement Mortars	08/12/2014
C430 Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	12/15/2004
C451 Early Stiffening of Hydraulic Cement (Paste Method)	12/15/2004
C452 Potential Expansion of Portland-Cement Mortars Exposed to Portland Cement	02/07/2017
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/28/2013
C596 Drying Shrinkage of Mortar Containing Hydraulic Cement	08/12/2014
C1012 Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	12/15/2004
C1038 Expansion of Hydraulic Cement Mortar Bars Stored in Water	08/12/2014
C1437 Flow of Hydraulic Cement Mortar	12/15/2004
C1506 Water Retention of Hydraulic Cement-Based Mortars and Plasters	12/15/2004
C1698 Autogenous Strain of Cement Paste and Mortar	07/09/2019
C1702 Measurement of Heat of Hydration of Hydraulic Cementitious Materials Using Isothermal Conduction Calorimetry	06/23/2020



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Masonry

Standard:

Accredited Since:

C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	04/02/2009
C185	Air Content of Hydraulic Cement Mortar	04/02/2009
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	04/02/2009
C307	Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing	07/09/2019
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/28/2013
C531	Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes	12/15/2004
C579	Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes	07/09/2019
C580	Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes	07/09/2019
C1019	Sampling and Testing Grout	04/02/2009
C1403	Rate of Water Absorption of Masonry Mortars	02/09/2017
C1437	Flow of Hydraulic Cement Mortar	04/02/2009
C1506	Water Retention of Hydraulic Cement-Based Mortars and Plasters	04/02/2009



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Cementitious Material - Chemical Tests

Standard:

Accredited Since:

C114 Aluminum Oxide – X-Ray Fluorescence	02/07/2017
C114 Calcium Oxide – X-Ray Fluorescence	02/07/2017
C114 Ferric Oxide – X-Ray Fluorescence	02/07/2017
C114 Insoluble Residue – Reference	02/07/2017
C114 Loss on Ignition – Reference	02/07/2017
C114 Magnesium Oxide – X-Ray Fluorescence	02/07/2017
C114 Manganic Oxide – X-Ray Fluorescence	02/07/2017
C114 Phosphorus Pentoxide – X-Ray Fluorescence	02/07/2017
C114 Potassium Oxide – X-Ray Fluorescence	02/07/2017
C114 Silicon Dioxide – X-Ray Fluorescence	02/07/2017
C114 Sodium Oxide – X-Ray Fluorescence	02/07/2017
C114 Sulfur Trioxide – X-Ray Fluorescence	02/07/2017
C114 Titanium Dioxide – X-Ray Fluorescence	02/07/2017
C114 Zinc Oxide – X-Ray Fluorescence	02/07/2017



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Pozzolan

Standard:	Accredited Since:
C109 Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	08/12/2014
C114 (Loss on Ignition) Loss on Ignition – Reference	07/18/2022
C151 Autoclave Expansion of Portland Cement	08/12/2014
C157 Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	08/12/2014
C185 Air Content of Hydraulic Cement Mortar	02/07/2017
C187 Normal Consistency of Hydraulic Cement	08/12/2014
C188 Density of Hydraulic Cement	08/12/2014
C305 Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	08/12/2014
C430 Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	08/12/2014
C441 Effectiveness of Pozzolans or Ground Blast-Furnace Slag in Preventing Excessive Expansion of Concrete Due to the Alkali-Silica Reaction	08/12/2014
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/12/2014
C1012 Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	08/12/2014
C1437 Flow of Hydraulic Cement Mortar	08/12/2014



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Slag Cement

Standard:

Accredited Since:

C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	08/12/2014
C185	Air Content of Hydraulic Cement Mortar	08/12/2014
C188	Density of Hydraulic Cement	08/12/2014
C204	Fineness of Hydraulic Cement by Air Permeability Apparatus	08/12/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	08/12/2014
C430	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	08/12/2014
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/12/2014
C1038	Expansion of Hydraulic Cement Mortar Bars Stored in Water	07/09/2019
C1437	Flow of Hydraulic Cement Mortar	08/12/2014