

Miami-Dade County, Florida

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

BOARD AND CODE ADMINISTRATION DIVISION

PRODUCT CONTROL SECTION

Laboratory Certificate



11805 S.W. 26 Street-Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 Fax (786) 315-2599

This certifies that Applied Testing & Geosciences, LLC located at 401 E 4<sup>th</sup> Street Building 12B Bridgeport, PA 19405 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS301-94, and is Certified to perform the following tests:

International Accreditation Services Inc.  
Certificate of Accreditation TL-292

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Craig J. Joss, P.E.

*This Certification and Registration Approved: October 19, 2023*

*This Certification and Registration Expires : October 11, 2028*

*Certification No. : 23-0817.01 Renews:18-0830.01*

A blue ink signature of Helmy A. Makar, written in a cursive style.

*Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
Product Control Section*

A blue ink signature of Americo Segura, written in a cursive style.

*Americo Segura, M.S., CGC  
Quality Assurance Unit Supervisor  
Product Control Section*

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **APPLIED TESTING & GEOSCIENCES, LLC**

401 EAST FOURTH STREET  
BRIDGEPORT, PENNSYLVANIA 19405, U.S.A.

### **Testing Laboratory TL-292**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date January 27, 2022



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## APPLIED TESTING & GEOSCIENCES, LLC

[www.appliedtesting.com](http://www.appliedtesting.com)

**Contact Name** Tom Smith

**Contact Phone** +1-610-313-3227

*Accredited to ISO/IEC 17025:2017*

*Effective Date January 27, 2022*

<b>CONSTRUCTION MATERIALS</b>	
<b>Concrete Testing Methods</b>	
AASHTO T103	Soundness of Aggregates by Freezing and Thawing (Procedure A Total Immersion in Water)
ASTM C29 / C29M	Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C39 / C39M	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
ASTM C40 / C40M	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
ASTM C42 / C42M	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C70	Standard Test Method for Surface Moisture in Fine Aggregate
ASTM C78	Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C87	Standard Test Method for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar
ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C117	Standard Test Method for Materials Finer than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate
ASTM C128	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate
ASTM C131	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion And Impact in the Los Angeles Machine
ASTM C136 / C136M	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
ASTM C138 / C138M	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregates
ASTM C143 / C143M	Standard Test Method for Slump of Hydraulic-Cement Concrete

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ASTM C157 / C157M	Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete
ASTM C173 / C173M	Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C174 / C174M	Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
ASTM C227	Standard Test Method for Potential Alkali Reactivity of Cement-Aggregate Combinations
ASTM C231 / C231M	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C232/C232M	Standard Test Method for Bleeding of Concrete
ASTM C293 / C293M	Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)
ASTM C295 / C295M	Standard Guide for Petrographic Examination of Aggregates for Concrete
ASTM C403 / C403M	Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance
ASTM C404	Standard Specification for Aggregates for Masonry Grout
ASTM C426	Standard Test Method for Linear Drying Shrinkage of Concrete Masonry Units
ASTM C457 / C457M	Standard Test Method for Microscopical Determination of Parameters of the Air-Void System in Hardened Concrete
ASTM C470	Standard Specification for Molds for Forming Concrete Test Cylinders Vertically
ASTM C495 / C495M	Standard Test Method for Compressive Strength of Lightweight Insulating Concrete
ASTM C496 / C496M	Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens
ASTM C531	Standard Test Method for Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-
ASTM C535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C566	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying
ASTM C567 / C567M	Standard Test Method for Determining Density of Structural Lightweight Concrete
ASTM C579	Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
ASTM C617	Standard Practice for Capping Cylindrical Concrete Specimens
ASTM C666 / C666M	Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing

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ASTM C779 / C779M	Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces
ASTM C796	Standard Test Method for Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam
ASTM C803 / C803M	Standard Test Method for Penetration Resistance of Hardened Concrete
ASTM C805 / C805M	Standard Test Method for Rebound Number of Hardened Concrete
ASTM C823 / C823M	Standard Practice for Examination and Sampling of Hardened Concrete in Constructions
ASTM C856	Standard Practice for Petrographic Examination of Hardened Concrete
ASTM C873 / C873M	Standard Test Method for Compressive Strength of Concrete Cylinders Cast in Place in Cylindrical Molds
ASTM C900	Standard Test Method for Pullout Strength of Hardened Concrete
ASTM C1012	Standard Test Method for Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution
ASTM C1040 / C1040M	Standard Test Methods for In-Place Density of Unhardened and Hardened Concrete, Including Roller Compacted Concrete, By Nuclear Methods
ASTM C1064 / C1064M	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1105	Standard Test Method for Length Change of Concrete Due to Alkali-Carbonate Rock Reaction
ASTM C1116	Standard Specification for Fiber-Reinforced Concrete
ASTM C1152 / C1152M	Standard Test Method for Acid-Soluble Chloride in Mortar and Concrete
ASTM C1218 / C1218M	Standard Test Method for Water-Soluble Chloride in Mortar and Concrete
ASTM C1231 / C1231M	Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens
ASTM C1260	Standard Test Method for Potential Alkali Reactivity of Aggregates
ASTM C1293	Standard Test Method for Determination of Length Change of Concrete Due to Alkali-Silica Reaction
ASTM C1399 / C1399M	Standard Test Method for Obtaining Average Residual-Strength of Fiber-Reinforced Concrete
ASTM C1524	Standard Test Method for Water-Extractable Chloride in Aggregate (Soxhlet Method)
ASTM C1556	Standard Test Method for Determining the Apparent Chloride Diffusion Coefficient of Cementitious Mixtures by Bulk Diffusion
ASTM C1567	Standard Test Method for Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate
ASTM C1585	Standard Test Method for Measurement of Rate of Absorption of Water by Hydraulic-Cement Concretes
ASTM C1611	Standard Test Method for Slump Flow of Self-Consolidating Concrete

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ASTM C1688	Standard Test Method for Density and Void Content of Freshly Mixed Pervious Concrete
ASTM C1754	Standard Test Method for Density and Void Content of Hardened Pervious Concrete
ASTM D638	Standard Test Method for Tensile Properties of Plastics
ASTM D695	Standard Test Method for Compressive Properties of Rigid Plastics
ASTM D4791	Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate
ASTM D4832	Standard Test Method for Preparation and Testing of Controlled Low Strength Material (CLSM) Test Cylinders
ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate
ASTM E70	Standard Test Method for pH of Aqueous Solutions With the Glass Electrode
ASTM F1869	Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
CRD C48	Standard Test Method for Water Permeability of Concrete
ICC-ES AC509	Acceptance Criteria for 3D Automated Construction Technology For 3D Concrete Walls (Excluding Sections 3.3 and 3.4)
ICC-ES AC520	Acceptance Criteria for CO2 Concrete-Based Concrete Masonry Units (Excluding Sections 3.3 and 3.4)
UL 3401	Outline of Investigation for 3D Printed Building Construction (Excluding Sections 13.1, 14.3.3, 14.3.9.2, 14.4.2, 14.4.3)
<b>Concrete Sampling Methods</b>	
ASTM C31 / C31M	Standard Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C42 / C42M	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C94	Standard Specification for Ready-Mixed Concrete
ASTM C172 / C172M	Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory
ASTM C192 / C192M	Standard Practice for Sampling Freshly Mixed Concrete
ASTM C513	Standard Test Method for Obtaining and Testing Specimens of Hardened Lightweight Insulating Concrete for Compressive Strength
ASTM C702 / C702M	Standard Practice for Reducing Samples of Aggregate to Testing Size
ASTM C1140	Standard Practice for Preparing and Testing Specimens from Shotcrete Test Panels
ASTM C1385	Standard Practice for Sampling Materials for Shotcrete
ASTM C1604	Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete

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ASTM C1704	Standard Test Method for Sampling and Testing Structural Cementitious Panels
ASTM D75	Standard Practice for Sampling Aggregates
ASTM D5971	Standard Practice for Sampling Freshly Mixed Controlled Low-Strength Material
<b>Concrete Specifications</b>	
ASTM C33 / C33M	Standard Specification for Concrete Aggregates
ASTM C94	Standard Specification for Ready-Mixed Concrete
ASTM C387	Standard Specification for Packaged, Dry, Combined Materials for Concrete and High Strength Mortar
ASTM C511	Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes
ASTM C869	Standard Specification for Foaming Agents Used in Making Preformed Foam for Cellular Concrete
ASTM C928	Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs
ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
ASTM C1116	Standard Specification for Fiber-Reinforced Concrete
ASTM E11	Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
<b>Concrete Equivalent AASHTO Test</b>	
AASHTO M6	Fine Aggregate for Hydraulic Cement Concrete
AASHTO M80	Coarse Aggregate for Hydraulic Cement Concrete
AASHTO M157	Ready-Mixed Concrete
AASHTO M201	Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes
AASHTO R39	Making and Curing Concrete Test Specimens in the Laboratory
AASHTO R60	Sampling Freshly Mixed Concrete
AASHTO R70	Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete
AASHTO T2	Sampling of Aggregates
AASHTO T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing
AASHTO T19	Bulk Density ("Unit Weight") and Voids in Aggregate

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AASHTO T21	Organic Impurities in Fine Aggregates for Concrete
AASHTO T22	Compressive Strength of Cylindrical Concrete Specimens
AASHTO T23	Making and Curing Concrete Test Specimens in the Field
AASHTO T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
AASHTO T27	Sieve Analysis of Fine and Coarse Aggregates
AASHTO T71	Effect of Organic Impurities in Fine Aggregate on Strength of Mortar
AASHTO T84	Specific Gravity and Absorption of Fine Aggregate
AASHTO T85	Specific Gravity and Absorption of Coarse Aggregate
AASHTO T96	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
AASHTO T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
AASHTO T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
AASHTO T112	Standard Method of Test for Clay Lumps and Friable Particles in Aggregate
AASHTO T119	Slump of Hydraulic Cement Concrete
AASHTO T121	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
AASHTO T148	Measuring Length of Drilled Concrete Cores
AASHTO T152	Air Content of Freshly Mixed Concrete by the Pressure Method
AASHTO T158	Bleeding of Concrete
AASHTO T161	Resistance of Concrete to Rapid Freezing and Thawing
AASHTO T177	Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)
AASHTO T196	Air Content of Freshly Mixed Concrete by the Volumetric Method
AASHTO T197	Time of Setting of Concrete Mixtures by Penetration Resistance
AASHTO T198	Splitting Tensile Strength of Cylindrical Concrete Specimens
AASHTO T231	Capping Cylindrical Concrete Specimens
AASHTO T248	Reducing Samples of Aggregate to Testing Size
AASHTO T255	Total Evaporable Moisture Content of Aggregate by Drying
AASHTO T260	Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials
AASHTO T303	Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction
AASHTO T309	Temperature of Freshly Mixed Hydraulic Cement Concrete
<b>Cement Testing Methods</b>	



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ASTM C110	Standard Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone
ASTM C114	Standard Test Methods for Chemical Analysis of Hydraulic Cement
ASTM C151 / C151M	Standard Test Method for Autoclave Expansion of Hydraulic Cement
ASTM C183 / C183M	Standard Practice for Sampling and the Amount of Testing of Hydraulic Cement
ASTM C187	Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste
ASTM C188	Standard Test Method for Density of Hydraulic Cement
ASTM C191	Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
ASTM C204	Standard Test Methods for Fineness of Hydraulic Cement by Air-Permeability Apparatus
ASTM C266	Standard Test Method for Time of Setting of Hydraulic-Cement Paste by Gillmore Needles
ASTM C359	Standard Test Method for Early Stiffening of Hydraulic Cement (Mortar Method)
ASTM C430	Standard Test Method for Fineness of Hydraulic Cement by the 45- $\mu$ m (No. 325) Sieve
ASTM C451	Standard Test Method for Early Stiffening of Hydraulic Cement (Paste Method)
ASTM C472	Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete
ASTM C482	Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste
ASTM C563	Standard Guide for Approximation of Optimum SO <sub>3</sub> in Hydraulic Cement
<b>Cement Specifications</b>	
ASTM C91	Standard Specification for Masonry Cement
ASTM C150 / C150M	Standard Specification for Portland Cement
ASTM C219	Standard Terminology Relating to Hydraulic Cement
ASTM C465	Standard Specification for Processing Additions for Use in the Manufacture of Hydraulic Cements
ASTM C472	Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete
ASTM C595	Standard Specification for Blended Hydraulic Cements
ASTM C1157	Standard Performance Specification for Hydraulic Cement
ASTM C1329	Standard Specification for Mortar Cement
<b>Cement Equivalent AASHTO Test</b>	

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AASHTO M85	Portland Cement
AASHTO M240	Blended Hydraulic Cement
AASHTO T105	Chemical Analysis of Hydraulic Cement
AASHTO T131	Time of Setting of Hydraulic Cement by Vicat Needle
AASHTO T153	Fineness of Hydraulic Cement by Air Permeability Apparatus
<b>Supplementary Cementitious Materials/Pozzolans (SCMs) Testing Methods</b>	
ASTM C311 / C311M	Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete
ASTM C618	Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
<b>Supplementary Cementitious Materials/Pozzolans (SCMs) Specifications</b>	
ASTM C618	Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
ASTM C989	Standard Specification for Slag Cement for Use in Concrete and Mortars
ASTM C1240	Standard Specification for Silica Fume Used in Cementitious Mixtures
ASTM C1697	Standard Specification for Blended Supplementary Cementitious Materials
ASTM D5370	Standard Specification for Pozzolanic Blended Materials in Construction Applications
<b>Supplementary Cementitious Materials/Pozzolans (SCMs) Equivalent AASHTO Test</b>	
AASHTO M302	Slag Cement for Use in Concrete and Mortars
AASHTO M307	Silica Fume Used in Cementitious Mixtures
<b>Mortar Testing Methods</b>	
ASTM C109 / C109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
ASTM C185	Standard Test Method for Air Content of Hydraulic Cement Mortar
ASTM C190	Method of Test for Tensile Strength of Hydraulic Cement Mortars (Withdrawn 1990)
ASTM C265	Standard Test Method for Water-Extractable Sulfate in Hydrated Hydraulic Cement Mortar
ASTM C305	Standard Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic
ASTM C348	Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars
ASTM C349	Standard Test Method for Compressive Strength of Hydraulic-Cement Mortars (Using Portions of Prisms Broken in Flexure)
ASTM C452	Standard Test Method for Potential Expansion of Portland-Cement Mortars Exposed to Sulfate
ASTM C780	Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry Consistency

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ASTM C1038 / C1038M	Standard Test Method for Expansion of Hydraulic Cement Mortar Bars Stored in Water
ASTM C1437	Standard Test Method for Flow of Hydraulic Cement Mortar
ASTM C1506	Standard Test Method for Water Retention of Hydraulic Cement-Based Mortars and Plasters
ASTM E518 / E518M	Standard Test Methods for Flexural Bond Strength of Masonry-Method A
ASTM E519	Standard Test Method for Diagonal Tension (Shear) in Masonry Assemblages
<b>Mortar Specifications</b>	
ASTM C150 / C150M	Standard Specification for Portland Cement
ASTM C230	Standard Specification for Flow Table for Use in Tests of Hydraulic Cement
ASTM C270	Standard Specification for Mortar for Unit Masonry
ASTM C1586	Standard Guide for Quality Assurance of Mortars
ASTM C1714	Standard Specification for Preblended Dry Mortar Mix for Unit Masonry
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
<b>Mortar Equivalent AASHTO Test</b>	
AASHTO T106	Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in. Cube Specimens)
<b>Grout Testing Methods</b>	
ASTM C109 / C109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
ASTM C942	Standard Test Method for Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory
ASTM C1019	Standard Test Method for Sampling and Testing Grout
<b>Grout Sampling Methods</b>	
ASTM C476	Standard Specification for Grout for Masonry
ASTM C937	Standard Specification for Grout Fluidifier for Preplaced-Aggregate Concrete
ASTM C1107	Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
<b>Asphalt Testing Methods</b>	
ASTM C127	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate
ASTM C128	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate

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ASTM D127	Standard Test Method for Drop Melting Point of Petroleum Wax, Including Petrolatum
ASTM D2950 / D2950M	Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods
ASTM D3142 / D3142M	Standard Test Method for Specific Gravity, API Gravity, or Density of Cutback Asphalts by Hydrometer Method
ASTM D6951 / D6951M	Standard Test Method for Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications
<b>Asphalt Specifications</b>	
ASTM D3666	Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials
<b>Asphalt Sampling Methods</b>	
ASTM C702 / C702M	Standard Practice for Reducing Samples of Aggregate to Testing Size
ASTM D75	Standard Practice for Sampling Aggregates
ASTM D5361 / D5361M	Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
<b>Asphalt Equivalent AASHTO Test</b>	
AASHTO T84	Specific Gravity and Absorption of Fine Aggregate
AASHTO T85	Specific Gravity and Absorption of Coarse Aggregate
<b>Soil and Rock/Aggregate Test Methods</b>	
ASTM D422	Standard Test Method for Particle-Size Analysis of Soils
ASTM D698	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D854	Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer
ASTM D1140	Standard Test Methods for Determining the Amount of Material Finer than 75- $\mu$ m (No. 200) Sieve in Soils by Washing
ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1883	Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils
ASTM D2166 / D2166M	Standard Test Method for Unconfined Compressive Strength of Cohesive Soil
ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass System)
ASTM D2487	Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification)

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ASTM D2936	Standard Test Method for Direct Tensile Strength of Intact Rock Core Specimens
ASTM D2938	Standard Test Method for Unconfined Compressive Strength of Intact Rock Core Specimens
ASTM D2974	Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils
ASTM D3080 / D3080M	Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions
ASTM D4221	Standard Test Method for Dispersive Characteristics of Clay Soil by Double Hydrometer
ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4525	Standard Test Method for Permeability of Rocks by Flowing Air
ASTM D4630	Standard Test Method for Determining Transmissivity and Storage Coefficient of Low-Permeability Rocks by In Situ Measurements Using the Constant Head Injection Test
ASTM D4972	Standard Test Method for pH of Soils
ASTM D6913	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
<b>Soils and Rock/Aggregate Specifications</b>	
ASTM D3740	Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
<b>Soils and Rock/Aggregate Sampling Methods</b>	
ASTM D75	Standard Practice for Sampling Aggregates
ASTM D5268	Standard Specification for Topsoil Used for Landscaping Purposes
<b>Soils and Rock/Aggregate Equivalent AASHTO Test</b>	
AASHTO M145	Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
AASHTO T2	Sampling of Aggregates
AASHTO T88	Particle Size Analysis of Soils
AASHTO T89	Determining the Liquid Limit of Soils
AASHTO T90	Determining the Plastic Limit and Plasticity Index of Soils

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AASHTO T99	Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop
AASHTO T100	Specific Gravity of Soils
AASHTO T180	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop
AASHTO T193	The California Bearing Ratio
AASHTO T208	Unconfined Compressive Strength of Cohesive Soil
AASHTO T236	Direct Shear Test of Soils under Consolidated Drained Conditions
AASHTO T248	Reducing Samples of Aggregate to Testing Size
AASHTO T265	Laboratory Determination of Moisture Content of Soils
AASHTO T267	Determination of Organic Content in Soils by Loss on Ignition
<b>Metals Test Methods</b>	
AISI S901	Rotational-Lateral Stiffness Test Method for Beam-to-Panel Assemblies
AISI S902	Stub-Column Test Method for Effective Area of Cold-Formed Steel Columns
AISI S903	Standard Methods for Determination of Uniform and Local Ductility
AISI S906	Standard Procedures for Panel and Anchor Structural Tests
AISI S907	Test Standard for Cantilever Test Method for Cold-Formed Steel Diaphragms
AISI S908	Base Test Method for Purlins Supporting a Standing Seam Roof System"
AISI S909	Standard Test Method for Determining the Web Crippling Strength of Cold-Formed Steel Beams
AISI S910	Test Method for Distortional Buckling of Cold Formed Steel Hat Shaped Compression Members
AISI S911	Method for Flexural Testing Cold-Formed Steel Hat Shaped Beams
AISI S912	Test Procedure for Determining a Strength Value for a Roof Panel-to-Purlin-to-Anchorage Device Connection
AISI S913	Test Standard for Hold-Downs Attached to Cold-Formed Steel Structural Framing
AISI S914	Test Standard for Joist Connectors Attached to Cold-Formed Steel Structural Framing
ASTM E8 / E8M	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E9	Standard Test Methods of Compression Testing of Metallic Materials at Room Temperature
ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials
ASTM E164	Standard Practice for Contact Ultrasonic Testing of Weldments
ASTM E165 / E165M	Standard Practice for Liquid Penetrant Examination for General Industry

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ASTM E1417/E1417M	Standard Practice for Liquid Penetrant Testing
ASTM E1444 / E1444M	Standard Practice for Magnetic Particle Testing
ICC-ES AC25	Acceptance Criteria for Metal Composite Material (Section 4.0)
<b>Metals Specification Methods</b>	
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
ASTM E543	Standard Specification for Agencies Performing Nondestructive Testing
<b>CONSTRUCTION PRODUCTS</b>	
<b>Wood/Lumber Testing Methods</b>	
ASTM D143	Standard Test Methods for Small Clear Specimens of Timber
ASTM D198	Standard Test Methods of Static Tests of Lumber in Structural Sizes
ASTM D1037	Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials (Excluding Section 22 - Abrasion Resistance by the U.S. Navy Wear Tester)
ASTM D1761	Standard Test Methods for Mechanical Fasteners in Wood
ASTM D2395	Standard Test Methods for Density and Specific Gravity (Relative Density) of Wood and Wood-Based Materials
ASTM D4442	Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials
ASTM D4761	Standard Test Methods for Mechanical Properties of Lumber and Wood-Base Structural Material
ASTM D4933	Standard Guide for Moisture Conditioning of Wood and Wood-Based Materials
ASTM D7031	Standard Guide for Evaluating Mechanical and Physical Properties of Wood-Plastic Composite Products
ASTM D7032	Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails
<b>Wood/Lumber Sampling Methods</b>	
ASTM D2915	Practice for Sampling and Data-Analysis for Structural Wood and Wood-Based Products
<b>Fasteners/Anchors/Nails Testing Methods</b>	
AISI S904	Standard Test Methods for Determining the Tensile and Shear Strength of Screws
AISI S905	Standard Test Methods for Mechanically Fastened Cold-Formed Steel Connections
ASTM E488/E488M	Standard Test Methods for Strength of Anchors in Concrete Elements
ASTM E1190	Standard Test Methods for Strength of Power-Actuated Fasteners Installed in Structural Members

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ASTM F606 / F606M	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets
ASTM F1575	Standard Test Method for Determining Bending Yield Moment of Nails
ICC-ES AC01	Acceptance Criteria for Expansion Anchors in Masonry Elements (Section 5.6.2.2)
ICC-ES AC13	Joist Hangers and Similar Devices (Section 3.0)
ICC-ES AC58	Adhesive Anchors in Masonry Elements (Section 4.4.3.1.1)
ICC-ES AC70	Fasteners Power-Driven into Concrete, Steel, and Masonry Elements (Section 4.0)
ICC-ES AC106	Pre-Drilled Fasteners (Screw Anchors) in Masonry (Section 4.0)
ICC-ES AC116	Nails and Spikes (Section 3.0)
ICC-ES AC118	Tapping Screw Fasteners (Section 4.0)
ICC-ES AC233	Alternate Dowel-Type Threaded Fasteners (Section 4.0)
SAE J78	Steel Self-Drilling Tapping Screws
<b>Fasteners/Anchors/Nails Sampling Methods</b>	
ASTM F1470	Standard Practice for Fastener Sampling for Specified Mechanical Properties and Performance Inspection
<b>Fasteners/Anchors/Nails Specifications</b>	
ASTM C954	Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products
ASTM C1513	Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
<b>Building Products Testing Methods</b>	
ANSI A10.8	Safety Requirements for Scaffolding
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM C271 / C271M	Standard Test Method for Density of Sandwich Core Materials
ASTM C272	Constructions (Procedure A only) Standard Test Method for Water Absorption of Core Materials for Sandwich
ASTM C1028	Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method
ASTM D1143	Standard Test Methods for Deep Foundation Elements Under Static Axial Compressive Load



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ASTM D3154	Standard Test Method for Average Velocity in a Duct (Pitot Tube Method)
ASTM D3689	Standard Test Methods for Deep Foundations Under Static Axial Tensile Load
ASTM D3966	Standard Test Methods for Deep Foundations Under Lateral Load
ASTM D7032	Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails
ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction (Excluding Section 12)
ASTM E73	Standard Practice for Static Load Testing of Truss Assemblies
ASTM E96 / E96M	Standard Test Methods for Water Vapor Transmission of Materials
ASTM E330 / E330M	Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E331	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E455	Standard Test Method for Static Load Testing of Framed Floor or Roof Diaphragm Constructions for Buildings
ASTM E564	Standard Practice for Static Load Test for Shear Resistance of Framed Walls for Buildings
ASTM E605 / E605M	Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members
ASTM E661	Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads
ASTM E736 / E736M	Standard Test Method for Cohesion / Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members
ASTM E761 / E761M	Standard Test Method for Compressive Strength of Sprayed Fire-Resistive Material Applied to Structural Members
ASTM E1155	Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers
ASTM E1803	Standard Test Methods for Determining Strength Capacities of Structural Insulated Panels
ASTM E2322	Standard Test Method for Conducting Transverse and Concentrated Load Tests on Panels used in Floor and Roof Construction
ASTM F1869	Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
ASTM G85	Standard Practice for Modified Salt Spray (Fog) Testing
CISCA (1)	Concentrated Loads
CISCA (2)	Ultimate Loading

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CISCA (3)	Rolling Loads
CISCA (4)	Stringer Load Testing
CISCA (5)	Pedestal Axial Load Test
CISCA (6)	Pedestal Overturning Moment Test
CISCA (7)	Uniform Load Test
CISCA (8)	Drop Impact Load Test
CISCA (10)	Air Leakage (through Panel Seams)
ICC-ES AC04	Acceptance Criteria for Sandwich Panels (Section 4.0)
ICC-ES AC17	Acceptance Criteria for Glass Glazed Unit Skylights and Sloped Glass Glazing (Sections A3.0 and A4.0)
ICC-ES AC43	Acceptance Criteria for Steel Deck Roof And Floor Systems (Section 3.2.1)
ICC-ES AC100	Acceptance Criteria for Air-Conditioning Equipment Pads (Sections 4.2.7 and 4.2.8)
ICC-ES AC125	Acceptance Criteria for Concrete and Reinforced and Unreinforced Masonry Strengthening using Externally Bonded Fiber-Reinforced Polymer (FRP) Composite Systems
ICC-ES AC170	Acceptance Criteria for Shear Reinforcement Devices in Structural Concrete (Section 3.0)
ICC-ES AC210	Acceptance Criteria For Patio Covers with PVC Plastic Components (Sections 4.3 and 4.6)
ICC-ES AC213	Glass Shear Walls & Diaphragms for Patio Covers (Section 4.4)
ICC-ES AC323	Acceptance Criteria for Reinforcement of Openings in Shear Walls with Steel Brackets (Section 3.0)
ICC-ES AC358	Acceptance Criteria for Helical Pile Systems and Devices
ICC-ES AC449	Acceptance Criteria for Tension-Controlled Open Web Steel Joists
<b>Building Products Specifications</b>	
ASTM A881	Standard Specification for Steel Wire, Indented, Low-Relaxation for Prestressed Concrete
ANSI/SCTE 77	Specification for Underground Enclosure Integrity
<b>Concrete Admixtures Testing Methods</b>	
ASTM C233	Standard Test Method for Air-Entraining Admixtures for Concrete
ASTM C494	Standard Specification for Chemical Admixtures for Concrete
ASTM D891	Standard Test Methods for Specific Gravity, Apparent, of Liquid Industrial Chemicals
ASTM E1252	Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis

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ASTM G109	Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments
BS EN 480-10	Admixtures for concrete, mortar and grout- Test methods- Part 10: Determination of water soluble chloride content
<b>Concrete Admixtures Sampling Methods</b>	
<b>Concrete Admixtures Specifications</b>	
ASTM C260	Standard Specification for Air-Entraining Admixtures for Concrete
ASTM C494	Standard Specification for Chemical Admixtures for Concrete
ASTM C1017	Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete
ASTM E100	Standard Specification for ASTM Hydrometers
<b>Concrete Admixtures Equivalent AASHTO Test</b>	
AASHTO M154	Air-Entraining Admixtures for Concrete
AASHTO M194	Chemical Admixtures for Concrete
AASHTO T157	Air-Entraining Admixtures for Concrete
AASHTO T358	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration
<b>Masonry/Precast Testing Methods</b>	
AREMA 4.2.3	AREMA Manual for Railway Engineering (Chapter 30, 4.2.3 (Duggan Test), 4.9.1 (Testing Ties))
ASTM C50 / C50M	Standard Practice for Sampling, Sample Preparation, Packaging, and Marking of Lime and Limestone Products
ASTM C55	Standard Specification for Concrete Building Brick
ASTM C67	Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile
ASTM C73	Standard Specification for Calcium Silicate Brick (Sand-Lime Brick)
ASTM C90	Standard Specification for Loadbearing Concrete Masonry Units
ASTM C97 / C97M	Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone
ASTM C110	Standard Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone
ASTM C140 / C140M	Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units
ASTM C497	Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile
ASTM C936	Standard Specification for Solid Concrete Interlocking Paving Units
ASTM C1006	Standard Test Method for Splitting Tensile Strength of Masonry Units

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ASTM C1262	Standard Test Method for Evaluating the Freeze-Thaw Durability of Dry-Cast Segmental Retaining Wall Units and Related Concrete Units
ASTM C1314	Standard Test Method for Compressive Strength of Masonry Prisms
ASTM C1645	Standard Test Method for Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units
ASTM C1670	Standard Specification for Adhered Manufactured Stone Masonry Veneer Units
NCMA CMU WR2	Standard Test Method for Spray Bar Test of Concrete Masonry Units
<b>Masonry/Precast Sampling Methods</b>	
ASTM C50 / C50M	Standard Practice for Sampling, Sample Preparation, Packaging, and Marking of Lime and Limestone Products
<b>Masonry/Precast Specifications</b>	
ASTM C55	Standard Specification for Concrete Building Brick
ASTM C62	Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale)
ASTM C73	Standard Specification for Calcium Silicate Brick (Sand-Lime Brick)
ASTM C90	Standard Specification for Loadbearing Concrete Masonry Units
ASTM C129	Standard Specification for Nonloadbearing Concrete Masonry Units
ASTM C207	Standard Specification for Hydrated Lime for Masonry Purposes
ASTM C216	Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)
ASTM C652	Standard Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale)
ASTM C936	Standard Specification for Solid Concrete Interlocking Paving Units
ASTM C985	Standard Specification for Nonreinforced Concrete Specified Strength Culvert, Storm Drain, and Sewer Pipe
ASTM C1093	Standard Practice for Accreditation of Testing Agencies for Masonry
ASTM C1319	Standard Specification for Concrete Grid Paving Units
ASTM C1372	Standard Specification for Dry-Cast Segmental Retaining Wall Units
ASTM C1491	Standard Specification for Concrete Roof Pavers
ASTM C1670	Standard Specification for Adhered Manufactured Stone Masonry Veneer Units
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
<b>Masonry/Precast Equivalent AASHTO Test</b>	
AASHTO M154	Air-Entraining Admixtures for Concrete
AASHTO M194	Chemical Admixtures for Concrete

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AASHTO T157	Air-Entraining Admixtures for Concrete
AASHTO T280	Concrete Pipe, Manhole Sections, or Tile

ASTM: American Society for Testing and Materials

ANSI: American National Standards Institute

SAE: Society of Automotive Engineers

AISI: American Iron and Steel Institute

CISCA: Ceilings & Interior Systems Construction Association

AASHTO: American Association of State Highway and Transportation Officials

NCMA: National Concrete Masonry Association

AREMA: American Railway Engineering and Maintenance of Way Association