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**CERTIFICATE OF
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AMERICAN ASSOCIATION
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TRANSPORTATION OFFICIALS

AASHTO

Construction Technology Laboratories, Inc.

dba

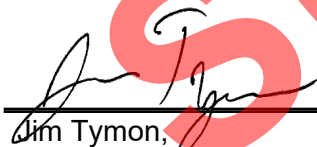
CTL Group

in

Mount Prospect, Illinois, 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:

Construction Technology Laboratories, Inc. dba CTL Group
in Mount Prospect, Illinois, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	Suspended
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1222 (Cement)	Evaluation of Laboratories Testing Hydraulic Cement	01/10/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/01/2011



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Aggregate

Standard:

Accredited Since:

C29	Bulk Density ("Unit Weight") and Voids in Aggregate	08/21/2002
C40	Organic Impurities in Fine Aggregates for Concrete	08/21/2002
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	08/21/2002
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	08/21/2002
C123	Lightweight Pieces in Aggregate	08/21/2002
C127	Specific Gravity and Absorption of Coarse Aggregate	08/21/2002
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/21/2002
C136	Sieve Analysis of Fine and Coarse Aggregates	08/21/2002
C142	Clay Lumps and Friable Particles in Aggregate	08/21/2002
C295	Petrographic Examination of Aggregates for Concrete	08/21/2002
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/21/2002
C566	Total Moisture Content of Aggregate by Drying	08/21/2002
C702	Reducing Samples of Aggregate to Testing Size	08/21/2002
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	10/13/2017
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	07/13/2023



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Cementitious Material - Chemical Tests

Standard:	Accredited Since:
C114 Aluminum Oxide – X-Ray Fluorescence	09/04/2002
C114 Calcium Oxide – X-Ray Fluorescence	09/04/2002
C114 Chloride – Reference	09/04/2002
C114 Ferric Oxide – X-Ray Fluorescence	09/04/2002
C114 Insoluble Residue – Reference	09/04/2002
C114 Loss on Ignition – LECO Furnace	12/04/2014
C114 Magnesium Oxide – X-Ray Fluorescence	09/04/2002
C114 Manganic Oxide – X-Ray Fluorescence	09/04/2002
C114 Phosphorus Pentoxide – X-Ray Fluorescence	09/04/2002
C114 Potassium Oxide – X-Ray Fluorescence	09/04/2002
C114 Silicon Dioxide – X-Ray Fluorescence	09/04/2002
C114 Sodium Oxide – X-Ray Fluorescence	09/04/2002
C114 Sulfide Sulfur – Reference	10/13/2017
C114 Sulfur Trioxide – X-Ray Fluorescence	09/04/2002
C114 Titanium Dioxide – X-Ray Fluorescence	09/04/2002
C114 Water-Soluble Alkali – Atomic Absorption	02/10/2020
C114 Zinc Oxide – X-Ray Fluorescence	09/04/2002



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Cement - Physical Tests

Standard:		Accredited Since:
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	08/21/2002
C114 (Loss on Ignition - Reference)	Loss on Ignition – Reference	10/13/2017
C151	Autoclave Expansion of Hydraulic Cement	08/21/2002
C183	Sampling and the Amount of Testing of Hydraulic Cement	08/21/2002
C185	Air Content of Hydraulic Cement Mortar	08/21/2002
C187	Normal Consistency of Hydraulic Cement	08/21/2002
C188	Density of Hydraulic Cement	10/13/2017
C191	Time of Setting of Hydraulic Cement by Vicat Needle	08/21/2002
C204	Fineness of Hydraulic Cement by Air Permeability Apparatus	08/21/2002
C266	Time of Setting of Hydraulic-Cement Paste by Gillmore Needles	08/21/2002
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	08/21/2002
C430	Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	08/21/2002
C451	Early Stiffening of Hydraulic Cement (Paste Method)	08/21/2002
C452	Potential Expansion of Portland-Cement Mortars Exposed to Portland Cement	08/17/2012
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/17/2012
C596	Drying Shrinkage of Mortar Containing Hydraulic Cement	02/10/2020
C1012	Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	08/21/2002
C1038	Expansion of Hydraulic Cement Mortar Bars Stored in Water	08/21/2002
C1437	Flow of Hydraulic Cement Mortar	08/21/2002
C1702	Measurement of Heat of Hydration of Hydraulic Cementitious Materials Using Isothermal Conduction Calorimetry	02/10/2020



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Concrete

Standard:		Accredited Since:
T336	Coefficient of Thermal Expansion of Hydraulic Cement Concrete	02/10/2020
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	08/21/2002
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	08/21/2002
C39	Compressive Strength of Cylindrical Concrete Specimens	08/21/2002
C42 (Drilling Cores of Concrete)	Drilling Cores of Concrete	06/05/2026
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	08/21/2002
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/21/2002
C138	Density (Unit Weight), Yield, and Air Content of Concrete	08/21/2002
C143	Slump of Hydraulic Cement Concrete	08/21/2002
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	08/21/2002
C172	Sampling Freshly Mixed Concrete	08/21/2002
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	08/21/2002
C192	Making and Curing Concrete Test Specimens in the Laboratory	08/21/2002
C215	Fundamental Transverse, Longitudinal and Torsional Frequencies of Concrete Specimens	08/21/2002
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	08/21/2002
C232	Bleeding of Concrete	08/21/2002
C233	Air-Entraining Admixtures for Concrete	08/21/2002
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	07/13/2023
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	08/21/2002
C457	Microscopical Determination of Parameters of the Air-Void System in Hardened Concrete	08/21/2002
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	08/21/2002
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	08/21/2002
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/17/2012



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Concrete (Continued)

Standard:		Accredited Since:
C666	Resistance of Concrete to Rapid Freezing and Thawing	08/21/2002
C672	Scaling Resistance of Concrete Surfaces Exposed to De-icing Chemicals	08/21/2002
C779	Abrasion Resistance of Horizontal Concrete Surfaces	07/13/2023
C856	Petrographic Examination of Hardened Concrete	07/13/2023
C1064	Temperature of Freshly Mixed Portland Cement Concrete	08/21/2002
C1105	Length Change of Concrete Due to Alkali-Carbonate Rock Reaction	08/21/2002
C1138	Abrasion Resistance of Concrete (Underwater Method)	07/13/2023
C1152	Acid-Soluble Chloride in Mortar and Concrete	08/21/2002
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	08/21/2002
C1218	Water-Soluble Chloride in Mortar and Concrete	08/21/2002
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	08/21/2002
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	08/21/2002
C1399	Obtaining Average Residual-Strength of Fiber-Reinforced Concrete	08/15/2023
C1542	Measuring Length of Concrete Cores	12/04/2014
C1550	Flexural Toughness of Fiber Reinforced Concrete (Using Centrally Loaded Round Panel)	07/13/2023
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	08/21/2002
C1603	Measurement of Solids in Water	08/17/2012
C1609	Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)	02/10/2020



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Pozzolan

Standard:		Accredited Since:
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/04/2014
C151	Autoclave Expansion of Hydraulic Cement	12/04/2014
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	12/04/2014
C185	Air Content of Hydraulic Cement Mortar	12/04/2014
C187	Normal Consistency of Hydraulic Cement	12/04/2014
C188	Density of Hydraulic Cement	12/04/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/04/2014
C311 (Loss on Ignition)	Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete (Loss on Ignition)	12/04/2014
C311 (Moisture Content)	Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete (Moisture Content)	06/05/2026
C430	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	12/04/2014
C441	Effectiveness of Pozzolans or Ground Blast-Furnace Slag in Preventing Excessive Expansion of Concrete Due to the Alkali-Silica Reaction	08/21/2002
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/04/2014
C1012	Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	12/04/2014
C1437	Flow of Hydraulic Cement Mortar	12/04/2014



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Slag Cement

Standard:

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C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/04/2014
C185	Air Content of Hydraulic Cement Mortar	12/04/2014
C188	Density of Hydraulic Cement	12/04/2014
C204	Fineness of Hydraulic Cement by Air Permeability Apparatus	12/04/2014
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	12/04/2014
C430	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	12/04/2014
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/04/2014
C1437	Flow of Hydraulic Cement Mortar	12/04/2014



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Ultra-High Performance Concrete (UHPC)

Standard:

Accredited Since:

Standard	Description	Accredited Since
C1856 (Sampling)	Sampling Specimens of Ultra-High Performance Concrete	06/05/2026
C1856-C31 (Cylinders)	Making Ultra-High Performance Concrete Test Specimens in the Field (Cylinders)	06/05/2026
C1856-C31 (Prisms)	Making Ultra-High Performance Concrete Test Specimens in the Field (Prisms)	06/05/2026
C1856-C39	Compressive Strength of Cylindrical Ultra-High Performance Concrete Specimens	02/10/2020
C1856-C42 (Testing Drilled Cores of Ultra-High Performance Concrete)	Testing Drilled Cores of Ultra-High Performance Concrete	02/10/2020
C1856-C157	Length Change of Hardened Ultra-High Performance Concrete	02/10/2020
C1856-C192 (Cylinders)	Making Ultra-High Performance Concrete Test Specimens in the Laboratory (Cylinders)	06/05/2026
C1856-C192 (Prisms)	Making Ultra-High Performance Concrete Test Specimens in the Laboratory (Prisms)	06/05/2026
C1856-C341	Preparation and Conditioning of Cast, Drilled, or Sawed Specimens of Ultra-High Performance Concrete Used for Length Change Measurements	02/10/2020
C1856-C469	Static Modulus of Elasticity and Poisson's Ratio of Ultra-High Performance Concrete in Compression	02/10/2020
C1856-C511	Curing Specimens of Ultra-High Performance Concrete	06/05/2026
C1856-C666	Resistance of Ultra-High Performance Concrete to Rapid Freezing and Thawing	02/10/2020
C1856-C1202	Electrical Indication of Ultra-High Performance Concrete's Ability to Resist Chloride Ion Penetration	02/10/2020
C1856-C1437	Flow of Cement Mortar used in Ultra-High Performance Concrete	02/10/2020
C1856-C1609	Flexural Performance of Fiber-Reinforced Ultra-High Performance Concrete (Using Beam With Third-Point Loading)	02/10/2020