# Certificate of Accreditation

AASHTO ACCREDITED

American Association of State Highway and 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

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## Quality Management System

| Standard: | | Accredited Since: |
|---|---|---|
| R18 | Establishing and Implementing a Quality System for Construction Materials Testing Laboratories | 08/21/2002 |
| 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-µm (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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## Iron and Steel

| Standard: | Accredited Since: |
|---|---|
| A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation) | 06/30/2026 |
| A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength) | 06/30/2026 |
| A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength) | 06/30/2026 |
| A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation) | 06/30/2026 |
| A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength) | 06/30/2026 |
| A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength) | 06/30/2026 |



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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 – Reference | 06/30/2026 |
| 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 |
| C157 | Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete | 06/30/2026 |
| 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: |
|---|---|---|
| R119 | Grinding the Ends of Cylindrical Concrete Specimens | 06/30/2026 |
| 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 |
| C341 | Length Change of Cast, Drilled, or Sawed Specimens of Hydraulic-Cement Mortar and Concrete | 06/30/2026 |
| 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 |



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## Concrete (Continued)

| Standard: | | Accredited Since: |
|---|---|---|
| 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 |
| 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 |
| C1231 (7000 psi and below) | Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders | 06/30/2026 |
| 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-µm (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: | | Accredited Since: |
|---|---|---|
| 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-µm (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: |
|---|---|---|
| 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 |



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