



CERTIFICATE OF ACCREDITATION



Flood Testing Laboratories, Inc.

in

Chicago, 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



SCOPE OF AASHTO ACCREDITATION FOR:

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in Chicago, Illinois, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/21/2005
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	11/30/2009
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	01/10/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/10/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/03/2012
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/05/2019
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/31/2022
E329 (Steel Inspection)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/13/2025



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Asphalt Mixture

Standard:**Accredited Since:**

R47 Reducing Samples of Hot-Mix Asphalt to Testing Size	01/19/2012
D979 Sampling Bituminous Paving Mixtures	05/31/2022
D2041 Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/24/2007
D2172 Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	05/24/2007
D2726 Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	08/16/2016
D2950 Density of Bituminous Concrete In Place by Nuclear Methods	05/31/2022
D3203 Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/24/2007
D3549 Thickness or Height of Compacted Bituminous Paving Mixture Specimens	05/31/2022
D5444 Mechanical Analysis of Extracted Aggregate	05/24/2007
D6307 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/24/2007
D6925 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	05/24/2007
D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	01/19/2012
D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	01/19/2012



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Soil

Standard:**Accredited Since:**

T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/31/2022
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/31/2022
T193	The California Bearing Ratio	05/31/2022
T267	Determination of Organic Content in Soils by Loss on Ignition	05/24/2007
T288	Minimum Soil Resistivity	05/31/2022
T289	pH of Soils for Corrosion Testing	05/31/2022
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/24/2007
D422	Particle Size Analysis of Soils by Hydrometer	05/24/2007
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/24/2007
D854	Specific Gravity of Soils	07/28/2022
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	05/24/2007
D1556	Density of Soil In-Place by the Sand Cone Method	08/14/2020
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	05/24/2007
D1883	The California Bearing Ratio	05/24/2007
D2166	Unconfined Compressive Strength of Cohesive Soil	05/24/2007
D2216	Laboratory Determination of Moisture Content of Soils	05/24/2007
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	01/19/2012
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	05/24/2007
D2488	Description and Identification of Soils (Visual-Manual Procedure)	05/24/2007
D2974	Determination of Organic Content in Soils by Loss on Ignition	01/13/2025
D3080 (2000 lb/ft-sq or Greater Normal Stress)	Direct Shear Test of Soils Under Consolidated Drained Conditions (with Exceptions)	10/26/2018
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	05/24/2007
D4318	Plastic Limit of Soils (Atterberg Limits)	05/24/2007



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Soil (Continued)

Standard:**Accredited Since:**

D4643	Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	01/13/2025
D4972	pH Testing of Soils	05/31/2022
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	01/13/2025
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/24/2007
D6951	Dynamic Cone Penetrometer In Shallow Pavement Applications	05/31/2022
D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	01/31/2025
G187	Soil Resistivity Using the Two-Electrode Soil Box	05/31/2022



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Aggregate

Standard:

Accredited Since:

T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	05/31/2022
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	06/30/2017
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	03/21/2005
C40	Organic Impurities in Fine Aggregates for Concrete	03/21/2005
C70	Surface Moisture in Fine Aggregate	10/30/2019
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	03/21/2005
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	03/21/2005
C123	Lightweight Pieces in Aggregate	06/23/2015
C127	Specific Gravity and Absorption of Coarse Aggregate	03/21/2005
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	03/21/2005
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	03/21/2005
C136	Sieve Analysis of Fine and Coarse Aggregates	03/21/2005
C142	Clay Lumps and Friable Particles in Aggregate	03/21/2005
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	03/21/2005
C566	Total Moisture Content of Aggregate by Drying	03/21/2005
C641	Iron Staining Materials in Lightweight Concrete Aggregates	10/30/2019
C702	Reducing Samples of Aggregate to Testing Size	03/21/2005
D75	Sampling Aggregate	06/30/2017
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	03/21/2005
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	03/21/2005
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	06/30/2017



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Sprayed Fire-Resistive Material

Standard:

E605 Thickness and Density of Sprayed Fire-Resistive Material(SFRM) Applied to Structural Members

Accredited Since:

01/19/2012

E736 Cohesion/Adhesion of Sprayed Fire-Resistive MaterialsApplied to Structural Members

01/19/2012



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Iron and Steel

Standard:

F3125 Externally Threaded Fasteners (Bolts): Rotational Capacity

Accredited Since:

05/31/2022

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Cement - Physical Tests

Standard:**Accredited Since:**

C109 Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	12/07/2023
C305 Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	10/11/2023
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/23/2015
C596 Drying Shrinkage of Mortar Containing Hydraulic Cement	06/30/2017
C1012 Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	10/16/2017
C1038 Expansion of Hydraulic Cement Mortar Bars Stored in Water	06/23/2015
C1437 Flow of Hydraulic Cement Mortar	10/11/2023



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Concrete

Standard:

Accredited Since:

T318	Water Content of Freshly Mixed Concrete Using Microwave Oven Drying	10/11/2023
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	03/21/2005
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	03/21/2005
C39	Compressive Strength of Cylindrical Concrete Specimens	03/21/2005
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	03/21/2005
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	03/21/2005
C138	Density (Unit Weight), Yield, and Air Content of Concrete	03/21/2005
C143	Slump of Hydraulic Cement Concrete	03/21/2005
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	03/21/2005
C172	Sampling Freshly Mixed Concrete	03/21/2005
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	03/21/2005
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	06/30/2017
C192	Making and Curing Concrete Test Specimens in the Laboratory	03/21/2005
C227	Potential Alkali Reactivity of Cement-Aggregate Combinations (Mortar-Bar Method)	03/21/2005
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	03/21/2005
C232	Bleeding of Concrete	06/30/2017
C233	Air-Entraining Admixtures for Concrete	06/30/2017
C293	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	06/23/2015
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	10/11/2023
C403	Time of Setting of Concrete Mixtures by Penetration Resistance	05/01/2012
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	03/21/2005
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	03/21/2005
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/01/2012



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Concrete (Continued)

Standard:**Accredited Since:**

C512	Creep of Concrete in Compression	03/21/2005
C567	Determining Density of Structural Lightweight Concrete	03/21/2005
C597	Pulse Velocity Through Concrete	05/01/2012
C617 (13000 psi and below)	Capping Cylindrical Concrete Specimens	10/11/2023
C642	Density, Absorption, and Voids in Hardened Concrete	03/21/2005
C672	Scaling Resistance of Concrete Surfaces Exposed to De-icing Chemicals	03/21/2005
C803	Penetration Resistance of Hardened Concrete	03/21/2005
C805	Rebound Number of Hardened Concrete	03/21/2005
C878	Restrained Expansion of Shrinkage-Compensating Concrete	06/30/2017
C918	Measuring Early-Age Compressive Strength and Projecting Later-Age Strength	06/30/2017
C939 (Pre-Mixed)	Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method - Pre-Mixed Grout)	10/16/2017
C940	Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory	06/23/2015
C942 (Pre-Mixed)	Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory (Pre-Mixed Grout)	10/16/2017
C953	Time of Setting of Grouts for Preplaced-Aggregate Concrete in the Laboratory	01/12/2020
C1040	In-Place Density of Unhardened and Hardened Concrete, Including Roller Compacted Concrete, By Nuclear Methods	06/30/2017
C1064	Temperature of Freshly Mixed Portland Cement Concrete	03/21/2005
C1074	Estimating Concrete Strength by the Maturity Method	03/21/2005
C1090	Measuring Changes in Height of Cylindrical Specimens of Hydraulic-Cement Grout	06/30/2017
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	10/16/2017
C1152	Acid-Soluble Chloride in Mortar and Concrete	03/21/2005
C1170	Determining Consistency and Density of Roller-Compacted Concrete Using a Vibrating Table	06/23/2015
C1176	Making Roller-Compacted Concrete in Cylinder Molds Using a Vibrating Table	06/30/2017
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	03/21/2005



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Concrete (Continued)

Standard:**Accredited Since:**

C1218	Water-Soluble Chloride in Mortar and Concrete	03/21/2005
C1231 (11000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	10/11/2023
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	03/21/2005
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	03/21/2005
C1437	Flow of Hydraulic Cement Mortar	10/11/2023
C1542	Measuring Length of Concrete Cores	06/23/2015
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	03/21/2005
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)	06/30/2017
C1603	Measurement of Solids in Water	06/23/2015
C1604	Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete	06/30/2017
C1610	Static Segregation of Self-Consolidating Concrete Using Column Technique	06/30/2017
C1611	Slump Flow of Self-Consolidating Concrete	06/30/2017
C1621	Passing Ability of Self-Consolidating Concrete by J-Ring	06/30/2017
C1741	Bleed Stability of Cementitious Post-Tensioning Tendon Grout	10/11/2023



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Masonry

Standard:

Accredited Since:

C67	Brick: Absorption	01/01/2011
C67	Brick: Capping	11/05/2009
C67	Brick: Compressive Strength	01/01/2011
C67	Brick: Initial Rate of Absorption	05/01/2012
C67	Brick: Measurement	01/01/2011
C67	Brick: Specimen Preparation	11/05/2009
C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens)	11/05/2009
C140 (Concrete Interlocking Paving Units)	Sampling and Testing Concrete Masonry Units and Related Units	10/11/2023
C140 (Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	11/05/2009
C185	Air Content of Hydraulic Cement Mortar	11/05/2009
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	11/05/2009
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/01/2012
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	06/30/2017
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	05/01/2012
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	06/30/2017
C1019	Sampling and Testing Grout	11/05/2009
C1314	Compressive Strength of Masonry Prisms	05/01/2012
C1437	Flow of Hydraulic Cement Mortar	11/05/2009
C1506	Water Retention of Hydraulic Cement-Based Mortars and Plasters	05/01/2012
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	11/05/2009
C1645	Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units	06/30/2017