



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).

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 08/06/2020 at 9:30 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	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



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Asphalt Mixture

Standard:

Accredited Since:

R47 Reducing Samples of Hot-Mix Asphalt to Testing Size	01/19/2012
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
D3203 Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/24/2007
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:
T88	Particle Size Analysis of Soils by Hydrometer	10/26/2018
T267	Determination of Organic Content in Soils by Loss on Ignition	05/24/2007
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
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	05/24/2007
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
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
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	05/24/2007



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Aggregate

Standard:

Accredited Since:

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:

Accredited Since:

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

01/19/2012

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

01/19/2012



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Concrete

Standard:		Accredited Since:
C31	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
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
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



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Concrete (Continued)

Standard:		Accredited Since:
C617 (12000 psi and below)	Capping Cylindrical Concrete Specimens	02/13/2020
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
C1218	Water-Soluble Chloride in Mortar and Concrete	03/21/2005
C1231 (12000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/13/2020
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	03/21/2005



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Concrete (Continued)

Standard:		Accredited Since:
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	03/21/2005
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



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Cement - Physical Tests

Standard:

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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



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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 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)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength	05/01/2012
C1012	Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	11/05/2009
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