



CERTIFICATE OF ACCREDITATION



Gestra Engineering, Inc.

in

Milwaukee, Wisconsin, 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](https://www.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 07/19/2024 at 9:11 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](https://www.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	07/13/2009
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	02/28/2020
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/28/2020
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	07/19/2024



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Soil

Standard:

Accredited Since:

T100	Specific Gravity of Soils	01/12/2012
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/21/2021
T311	Grain-Size Analysis of Granular Soil Materials	07/19/2024
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/10/2018
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/12/2012
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	01/12/2012
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/12/2012
D1883	The California Bearing Ratio	07/19/2024
D2166	Unconfined Compressive Strength of Cohesive Soil	07/13/2009
D2216	Laboratory Determination of Moisture Content of Soils	01/12/2012
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	07/13/2009
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/12/2012
D2850	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2009
D2974	Determination of Organic Content in Soils by Loss on Ignition	01/12/2012
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	01/12/2012
D4318	Plastic Limit of Soils (Atterberg Limits)	04/15/2016
D4718	Oversize Particle Correction	07/19/2024
D4767	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	07/13/2009
D4972	pH Testing of Soils	01/12/2012
D5084	Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	01/12/2012
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	07/19/2024
D7263	Density and Unit Weight of Soil	07/19/2024
D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	07/19/2024



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Aggregate

Standard:

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R90	Sampling Aggregate	07/19/2024
T103	Soundness of Aggregates by Freezing and Thawing	07/19/2024
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	07/19/2024
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	07/19/2024
C40	Organic Impurities in Fine Aggregates for Concrete	02/28/2020
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	02/28/2020
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	04/15/2016
C123	Lightweight Pieces in Aggregate	07/19/2024
C127	Specific Gravity and Absorption of Coarse Aggregate	02/28/2020
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/28/2020
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	02/28/2020
C136	Sieve Analysis of Fine and Coarse Aggregates	01/12/2012
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	02/28/2020
C566	Total Moisture Content of Aggregate by Drying	02/28/2020
C702	Reducing Samples of Aggregate to Testing Size	02/28/2020
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	07/19/2024



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Concrete

Standard:

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C31 (Beams)	Making and Curing Concrete Beam Test Specimens in the Field	02/28/2020
C31 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	02/28/2020
C39	Compressive Strength of Cylindrical Concrete Specimens	02/28/2020
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/28/2020
C138	Density (Unit Weight), Yield, and Air Content of Concrete	02/28/2020
C143	Slump of Hydraulic Cement Concrete	02/28/2020
C172	Sampling Freshly Mixed Concrete	02/28/2020
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	02/28/2020
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/28/2020
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	03/03/2023
C1064	Temperature of Freshly Mixed Portland Cement Concrete	02/28/2020
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/28/2020