



CERTIFICATE OF ACCREDITATION



Quality Assurance Engineering, Inc dba **Consolidated Engineering Laboratories** in **Oakland, California, 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:

Quality Assurance Engineering, Inc dba Consolidated Engineering Laboratories
in Oakland, California, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	09/01/1995
ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories	10/11/2019
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	03/01/2012
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/04/2014
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	01/31/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	03/01/2012
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	06/27/2014
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	04/15/2015
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/01/2012
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/27/2014
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/04/2014
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/18/2022
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/15/2015
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/15/2015



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Asphalt Mixture

Standard:

Accredited Since:

T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	02/10/2023
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	07/01/2000
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	07/01/2000
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	07/01/2000
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	07/01/2000
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	01/29/2013
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	07/01/2000
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	01/11/2021
D5444	Mechanical Analysis of Extracted Aggregate	04/04/2011
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	07/01/2000
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	07/01/2000
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	07/01/2000



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Soil

Standard:

Accredited Since:

D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	10/01/2004
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/16/2012
D1140 Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	10/01/2004
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	02/16/2012
D2216 Laboratory Determination of Moisture Content of Soils	10/01/2004
D2844 Resistance R-Value and Expansion Pressure of Compacted Soils	10/01/2004
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	10/01/2004
D4318 Plastic Limit of Soils (Atterberg Limits)	10/01/2004
D4718 Oversize Particle Correction	04/15/2015
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/29/2013



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Aggregate

Standard:

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C29	Bulk Density ("Unit Weight") and Voids in Aggregate	01/29/2013
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	02/01/2000
C127	Specific Gravity and Absorption of Coarse Aggregate	02/01/2000
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/01/2000
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	02/01/2000
C136	Sieve Analysis of Fine and Coarse Aggregates	02/01/2000
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/15/2015
C566	Total Moisture Content of Aggregate by Drying	02/01/2000
C702	Reducing Samples of Aggregate to Testing Size	02/01/2000
D75	Sampling Aggregate	04/15/2015
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	02/01/2000
D3744	Aggregate Durability Index	01/13/2023



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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

01/29/2013

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

01/29/2013



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Iron and Steel

Standard:	Accredited Since:
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	03/24/2016
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	03/24/2016
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	03/24/2016
A615-E290 Carbon-Steel Bars, Deformed and Plain: Bend Test	05/02/2007
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	03/24/2016
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	03/24/2016
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	03/24/2016
A706-E290 Low Alloy Steel Bars, Deformed and Plain: Bend Test	03/24/2016



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Concrete

Standard:		Accredited Since:
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	02/04/2014
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/04/2014
C39	Compressive Strength of Cylindrical Concrete Specimens	09/01/1995
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	06/21/2022
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/04/2014
C138	Density (Unit Weight), Yield, and Air Content of Concrete	09/01/1995
C143	Slump of Hydraulic Cement Concrete	09/01/1995
C172	Sampling Freshly Mixed Concrete	09/01/1995
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	09/01/1995
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	09/01/1995
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/04/2014
C617 (10000 psi and below)	Capping Cylindrical Concrete Specimens	05/21/2025
C1064	Temperature of Freshly Mixed Portland Cement Concrete	09/01/1995
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	01/31/2011
C1542	Measuring Length of Concrete Cores	06/21/2022



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Masonry

Standard:

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C140 (Reduced-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	07/15/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/04/2014
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	05/21/2025
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	05/21/2025
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	05/21/2025
C1019	Sampling and Testing Grout	01/31/2011
C1314 (Prisms Constructed of Reduced-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	07/15/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	01/31/2011