



CERTIFICATE OF ACCREDITATION



Quality Assurance Engineering, Inc.

dba

Consolidated Engineering Laboratories - an Engineering & Testing Services, LLC company

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).

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 8:43 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



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SCOPE OF AASHTO ACCREDITATION FOR:

Quality Assurance Engineering, Inc. dba Consolidated Engineering Laboratories - an Engineering & Testing Services, LLC company
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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 (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:

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
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:

Accredited Since:

C29	Bulk Density ("Unit Weight") and Voids in Aggregate	01/29/2013
C117	Materials Finer Than 75- μ m (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



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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 Materials Applied 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	Making and Curing Concrete Test Specimens in the Field	02/04/2014
C39	Compressive Strength of Cylindrical Concrete Specimens	09/01/1995
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 (8000 psi and below)	Capping Cylindrical Concrete Specimens	09/06/2018
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



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Masonry

Standard:

Accredited Since:

C140 (Concrete Masonry Units) Sampling and Testing Concrete Masonry Units and Related Units	01/31/2011
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/04/2014
C1019 Sampling and Testing Grout	01/31/2011
C1314 Compressive Strength of Masonry Prisms	01/31/2011
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	01/31/2011