



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

COLUMBIA WEST ENGINEERING, INC.
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Valid To: March 31, 2020

Certificate Number: 2922.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

CONSTRUCTION MATERIALS ENGINEERING

- ASTM: C1077 (Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation);
 C1093 (Standard Practice for Accreditation of Testing Agencies for Masonry);
 D3740 (Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction);
 E329 (Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection);
 E543 (Agencies Performing Nondestructive Testing)
- AASHTO: R18 (Practice for Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories)

CONSTRUCTION MATERIALS TESTING

Test Method:	Test Description:
Aggregates:	
ASTM C29/C29M	Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C117	Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C136/C136M	Sieve Analysis of Fine and Coarse Aggregates
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702/C702M	Reducing Samples of Aggregate to Testing Size
ASTM D75/D75M ¹	Sampling Aggregates
AASHTO T002	Sampling of Aggregates
AASHTO T011	Test for Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
AASHTO T19	Bulk Density ("Unit Weight") and Voids in Aggregate, Single User PDF Download

Test Method:	Test Description:
AASHTO T027	Sieve Analysis of Fine and Coarse Aggregates
AASHTO T084	Specific Gravity and Absorption of Fine Aggregate
AASHTO T085	Specific Gravity and Absorption of Coarse Aggregate
AASHTO T248	Reducing Samples of Aggregate to Testing Size
AASHTO T255	Total Evaporable Moisture Content of Aggregate by Drying
Concrete:	
ASTM C31/C31M ¹	Making and Curing Concrete Test Specimens in the Field
ASTM C39/C39M	Compressive Strength of Cylindrical Concrete Specimens
ASTM C78/C78M	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C138/C138M ¹	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C143/C143M ¹	Slump of Hydraulic-Cement Concrete
ASTM C172/C172M ¹	Sampling Freshly Mixed Concrete
ASTM C231/C231M ¹	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C293/C293M	Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)
ASTM C617	Capping Cylindrical Concrete Specimens
ASTM C1064/C1064M ¹	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders
Masonry:	
ASTM C140/C140M	Sampling and Testing Concrete Masonry Units and Related Units
ASTM C780 Annex A.6	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
ASTM C1019	Sampling and Testing Grout
ASTM C1314	Compressive Strength of Masonry Prisms
ASTM C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing
Fireproofing:	
ASTM E605 ¹	Thickness and Density of Sprayed Fire-Resistive Materials
ASTM E736 ¹	Cohesion/Adhesion of Sprayed Fire-Resistive Materials
Soils:	
ASTM D421 ² (Withdrawn 2016)	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422 ² (Withdrawn 2016)	Particle-Size Analysis of Soils
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D1140	Amount of Material in Soils Finer than No. 200 (75-µm) Sieve
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils

Test Method:	Test Description:
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D6938 ¹	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
AASHTO R058	Dry Preparation of Disturbed Soil and Soil-Aggregate Samples for Test
AASHTO T088	Particle Size Analysis of Soils
AASHTO T089	Determining the Liquid Limit of Soils
AASHTO T090	Determining the Plastic Limit and Plasticity Index of Soils
AASHTO T099	Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop
AASHTO T180	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop
AASHTO T224	Correction for Coarse Particles in the Soil Compaction Test
AASHTO T265	Laboratory Determination of Moisture Content of Soils
AASHTO T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
AASHTO M145	Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
Steel (Shop & Field)¹:	
ASTM E709	Standard Guide for Magnetic Particle Testing - AC Yoke , Wet/Dry
ASTM E164	Contact Ultrasonic Testing of Weldments - Straight & Angle
AWS D1.1	Structural Welding Code – Steel(Clause 6, Inspection)
AWS D1.3	Structural Welding Code – Sheet Steel(Clause 6, Inspection)
AWS D1.4	Structural Welding Code – Reinforcing Steel(Clause 6, Inspection)
AWS D1.5	Bridge Welding Code (Clause 6, Inspection)
AWS D1.8	Structural Welding Code – Seismic Supplement (Clause 7, Inspection)
AISC 360	Specification for Structural Steel Buildings(Chapter N, QA/QC Fabrication & Erection)
RCSC	Specification for Structural Joints Using High Strength Bolts (Section 9, Inspection)

¹ This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests or calibrations.

² This laboratory’s scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered “historical” and not that the laboratory’s accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

COLUMBIA WEST ENGINEERING, INC.

Vancouver, WA

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).



Presented this 20th day of March 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2922.01
Valid to March 31, 2020

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.