



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ACCREDITD LABS DBA CAL-CERT COMPANY
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CALIBRATION

Valid To: December 31, 2026

Certificate Number: 7863.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements) accreditation is granted to this laboratory at the location listed above as well as the satellite laboratory location listed below to perform the following calibrations^{1, 6}:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2, 4} ($\pm$)	Comments
Indicators & LVDTs ³	(0.05 to 10) in	$(40 + 14 L) \mu\text{in}$	Guage blocks, ASME B89.1.10M
Calipers ³	(0.05 to 24) in	$(11 + 14 L) \mu\text{in}$	Guage blocks, ASME B89.1.14
Micrometers ³	(0.05 to 24) in	$(5.4 + 19 L) \mu\text{in}$	Guage blocks, ASME B89.1.13
Rulers ³	(0.031 25 to 24) in	0.003 in	Standardized ruler, NIST SOP10
Extensometer ³	(0.025 to 2) in	$(6.9 + 48 L) \mu\text{in}$	3590VHR, ASTM E83
Displacement Measurement System ³	(0.05 to 8) in	170 μin	Digital indicator (w/ guage blocks) ASTM E2309

Parameter/Equipment	Range	CMC ² (±)	Comments
Gyratory Compactors ³			
Height Tube	Up to 120 mm	0.01 mm	Height tube
Height Blocks	Up to 254 mm	0.01 mm	Height block
Internal Angle	Up to 1.30°	0.011°	Angle measurement device
Gyratory & Proctor Molds ³	Up to 200 mm	0.007 mm	Mitutoyo three-point bore guage
Gyratory Mold Plates ³	Up to 200 mm	0.003 mm	Outside micrometer
Feeler Gages ³	(0.001 to 0.1) in	84 µin	Micrometer
Parallel Bars ³	Up to 24 in	44 µin	Parallel bar, stand, feeler guage

II. Mechanical

Parameter/Equipment	Range	CMC ^{2, 4, 5} (±)	Comments
Scales ³	1 g to 1 kg (1 to 40) kg (1 to 100) lb (100 to 200) lb	$(2.5 \times 10^{-3} + 1.1 \times 10^{-4} \text{ } \overline{Wt}) \text{ g}$ $(-3.0 \times 10^{-2} + 1.5 \times 10^{-4} \text{ } \overline{Wt}) \text{ g}$ $(1.1 \times 10^{-3} + 1.1 \times 10^{-4} \text{ } \overline{Wt}) \text{ lb}$ $(-2.0 \times 10^{-4} + 1.2 \times 10^{-4} \text{ } \overline{Wt}) \text{ lb}$	NIST Class 5 & 6 weights, ASTM E898
Force/Compression Testing Machines, Load Cells, & Load Rings ³	(20 to 1000) lbf (200 to 10 000) lbf (10 000 to 100 000) lbf (100 000 to 1 000 000) lbf	0.02 % 0.01 % 0.02 % 0.01 %	Load cell (w/ digital readout systems)

Parameter/Equipment	Range	CMC ^{2, 5} ($\pm$)	Comments
Gyratory Compactors – Pressure ³	(1500 to 18 000) N	2.4 N	Proving ring load cells
Torque Wrenches ³	Up to 9 lbf·in (9 to 90) lbf·in (100 to 1000) lbf·in (20 to 200) lbf·ft (200 to 2000) lbf·ft	0.46 % 0.71 % 0.38 % 0.046 % 0.075 %	ASME B107.28 Huanyu HP-10 Huanyu HP-100 CDI 10002-I-ETT AKO TSD111/200 AKO TSD111
Vacuum System & Vacuum Gages ³	(0.52 to 760) mmHg	0.087 mmHg	Transducer based pressure measuring equipment, USBR 1050, ASME B40.100
Pressure Gages ³	(-14.5 to 300) psi (200 to 1000) psi (1000 to 5000) psi (2000 to 10 000) psi	0.022 % + 0.074 psi 0.044 % + 0.41 psi 0.026 % + 0.12 psi 0.03 % + 0.71 psi	ASME B40.100 Fluke 2700G Fluke 700G08 Fluke 700G30 Fluke 700G31
Pressure Transducers ³	(10 to 300) psi	0.3 psi	Transducer based pressure measuring equipment, USBR 1050
Concrete Air Meter – Pressure Method ³	Up to 10% of air in concrete	0.42 % of air in concrete	ASTM C231, air meter graduate

III. Thermodynamics

Parameter/Equipment	Range	CMC ² (±)	Comments
Liquid in Glass & Temperature Sensors w/ Indicator ³	(15 to 230) °F (85 to 690) °F	0.43 °F 0.55 °F	Dry block calibrator, ASTM E77, ASTM E2623
Ovens/Furnaces/Chamber – System Accuracy ³	(-115 to 120) °F (70 to 1000) °F	1.3 °F 1.5 °F	Data loggers w/ probe
Infrared Thermometers ³	(82 to 752) °F	2.8 °F	Blackbody IR thermometer calibrator, ASTM E2847-21

IV. Time & Frequency

Parameter/Equipment	Range	CMC ² (±)	Comments
Universal testing Machine – Crosshead Speed ³	(0.0005 to 2) in/min	0.0015 in/min	Stopwatch & digital indicator, ASTM E2658, ASTM E2309
Stopwatch/Timer ³	60 sec to 24 hr	0.2 sec/day	Stopwatch, NIST 960-12
Gyratory Compactors – Speed of Rotation ³	Up to 60 RPM	0.15 RPM	Extech tachometer stopwatch

¹ This laboratory offers commercial calibration service and field calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g., resolution, repeatability) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ In the statement of CMC, L is the numerical value of the nominal length of the device measured in inches and Wt is the numerical value of the nominal mass of the device measured in grams or pounds.

⁵ In the statement of CMC, percentage (%) refers to percent of reading, unless otherwise noted.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

ACCREDITED LABS DBA CAL-CERT COMPANY

Saint Jacob, IL

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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 17th day of April 2026.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7863.01
Valid to December 31, 2026
Revised August 18, 2026

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.