



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

CAPPA GRANITE, INC.
7016 Baker Blvd.
Richland Hills, TX 76118
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CALIBRATION

Valid To: January 31, 2018

Certificate Number: 1593.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following surface plate calibrations¹:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Granite Surface Plates ³ – Flatness Repeat Reading	12 in to 30 ft 12 in to 30 ft	(10 + 0.44L) μin 20 μin	Autocollimator Repeat-o-meter (only valid in connection with flatness calibration)
Angle Plates – Squareness	Up to 18 in	(20 + 1.06L) μin	Comparison to master square
Parallelism V-Blocks	Up to 36 in Up to 10 in	(18 + 1.2L) μin 45 μin	Electronic indicator and surface plates

Parameter/Equipment	Range	CMC ^{2,4} (\pm)	Comments
Optical Flat – Flatness Parallelism	Up to 3 in (1 to 2) in	2.9 μ in 4.0L μ in	Master optical flat and monochromatic light
Straightness ³	Up to 72 in	(28 + 0.80L) μ in	Autocollimator
Autocollimator	(0 to 10) arc-min	0.70 arc-sec	Gage blocks and sine bar

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainties (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 and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. 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) 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 in inches of the diagonal.



Accredited Laboratory

A2LA has accredited

CAPPA GRANITE, INC.

Richland Hills, TX

for technical competence in the field of

Calibration

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 laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. 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 8 January 2009*).

Presented this 13th day of January 2016.



A handwritten signature in black ink, appearing to read "J. C. Burnett".

Senior Director of Quality and Communication
For the Accreditation Council
Certificate Number 1593.01
Valid to January 31, 2018

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