



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Elcometer Inc.

6900 Miller Road, Warren, MI 48092

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Dimensional, Chemical, Electrical, Mechanical, Time & Frequency Calibration
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President/Operations Manager

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

July 26, 2018

Revision Date:

July 6, 2019

Issue Date:

July 26, 2018

Accreditation No.:

99996

Expiration Date:

September 30, 2020

Certificate No.:

L18-362-R2

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

Elcometer Inc.

6900 Warren Road, Warren, MI 48092
 Contact Name: Deb Piatt Phone: 248-650-0500

Accreditation is granted to the facility to perform the following calibrations:

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Profilometers ^F	1 μ m to 508 μ m	\pm 1 μ m	Foils/Shims
Ultrasonic Thickness Gauges ^F	0.1 in to 1 in	\pm 0.000 1 in	Step Blocks
Coating Thickness ^F	6 μ m to 1 935 μ m	\pm 5 % of true thickness	NIST Tiles
	6 μ m to 1 500 μ m	\pm 1 μ m	DFT Standards
	1 500 μ m to 4 000 μ m	\pm 2 μ m	
	4 000 μ m to 25 400 μ m	\pm 4 μ m	
Thickness ^F	15 mm to 50.5 mm	\pm 0.5 mm	Rebar Test Blocks

Chemical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Conductivity ^F	0.5 μ g/cm ² to 47.4 μ g/cm ²	\pm 0.15 % of Reading	Conductivity Tiles

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
DC Voltage ^F	9 V to 90 V	\pm 5 % of Reading	Digital Multimeter
	3 V to 30 000 V	\pm 5 % of Reading	High Voltage Probe

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Gloss ^F	88 gu to 100 gu	\pm 0.5 gu	Gloss Tiles
	15 gu to 100 gu	\pm 0.5 gu	
Pull-off Adhesion Gage ^F	1 psi to 3 700 psi	\pm 15 psi \pm 15 % of reading \pm 1 % of full scale	Digital Adhesion Verification Unit
Pull off Adhesion Gage ^F	5 psi to 3 700 psi	\pm 15 % of reading	Indicator with Pull-Off Adhesion tester
Push off Adhesion Gage ^F	300 to 3 700 psi	\pm 150 psi \pm 1.5 % of full scale	



Certificate of Accreditation: Supplement

Elcometer Inc.

1893 Rochester Industrial Drive, Rochester Hills, MI 48309
Contact Name: Joseph Walker Phone: 248-650-0500

Accreditation is granted to the facility to perform the following calibrations:

Time & Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Time ^F	0.5 min to 86.4 min	0.37 sec	Digital Control Company Stopwatch

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.