

International Accreditation Service, Inc.

CERTIFICATE OF ACCREDITATION

This is to signify that

INTERTEK TESTING SERVICES NA LTD

1500 BRIGANTINE DRIVE
COQUITLAM, BRITISH COLUMBIA V3K 7C1
CANADA

Calibration Laboratory CL-102

has demonstrated compliance with the ANS/ISO/IEC Standard 17025:2005, *General criteria for the competence of testing and calibration laboratories*, and has been accredited commencing October 18, 2007, for the calibration discipline(s) listed in the approved scope of accreditation. The laboratory meets requirements of ANSI/NCSL Z540-1-1994, Part 1, and the IAS program requirements in the field of calibration.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President

(see attached scope of accreditation for measurement area or type of test, range or quantity, best measurement capability, technique reference, standard equipment or unique conditions)

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation, revocation, or expiration of accreditation. See the IAS *Accreditation Listings* on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 699-0541. Print Date: 11/30/2007

International Accreditation Service, Inc.

SCOPE OF ACCREDITATION

Intertek Testing Services NA, LTD. CL-102

Intertek Testing Services NA Ltd.
1500 Brigantine Drive
Coquitlam, B.C., V3K 7C1
Canada

Ian Chan
Manager of Gas & Plumbing
(604) 520-3321

MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY ¹ (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Dimensional</i> Length Dial Indicators, Calipers	0 to 2 inches >2 to 6 inches	0.022 inch 0.070 inch	Gauge Blocks Gauge Blocks
Extensometers	0 to 2 inches	0.022 inch	ASTM E 83, Gauge Blocks

October 18, 2007
Commencement Date


C. P. Ramani, P.E.
President

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MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY ¹ (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Mechanical</i> Force - Compression Follow the force method	0 to 50 lbf >50 to 50,000 lbf	0.01 lbf 160 lbf	ASTM E 4, Load Cell ASTM E 4, Load Cell
Force - Tension Follow the force method	0 to 100,000 lbf	709 lbf	ASTM E 4, Load Cell
Scales, Balances	1g to 5kg	See Note	ASTM E 898, Class F Weights
Pressure Air and water gauges	0 to 1,000 psi	0.5% of reading	Comparison to reference gages, set the force method, LOP COG-QLAB-004

¹ "Best Measurement Capability" 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 of nearly ideal measuring instruments. Best Measurement Capabilities are expressed as uncertainties at approximately the 95% level of confidence, usually using a coverage factor of $k=2$. The measurement uncertainty of a specific calibration performed by the laboratory may be greater than the least uncertainty due to the behavior of the customer's device, to the environment (if the calibration is performed in the field), and to influences from the circumstances of the specific calibration.

NOTE: Calibration parameters are performed primarily on-site at customer locations. The uncertainty of scale/balance calibration is highly dependent on local conditions, such as scale resolution and sensitivity, scale cleanliness, local gravity, temperature and humidity, dust, vibration, etc.; therefore, any statement of uncertainty is misleading. The class of the best weights used by the laboratory is shown in the Technique column. Use of weights in combination, whether in the same class or different classes, will increase measurement uncertainty resulting from the additive effect of weight tolerances, as defined in ASTM E 617.

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