



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

ATLAS MATERIAL TESTING TECHNOLOGY LLC

Chicago, IL

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 18 June 2005*).

Presented this 16th day of November 2006.



A handwritten signature in cursive script, reading "Peter Abney".

President
For the Accreditation Council
Certificate Number 2101.01
Valid to May 31, 2008
Revised March 24, 2008

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

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

ATLAS MATERIAL TESTING TECHNOLOGY, LLC
 4114 North Ravenswood Avenue
 Chicago, IL 60613
 Ken Buckowski Phone: 773 327 4520

CALIBRATION

Valid To: May 31, 2008

Certificate Number: 2101.01

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

I. Optical Radiation

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Irradiance for Light Sources –			For light sources used in weathering devices using: Optronic Laboratories OL754 spectroradiometer, Gamma Scientific GS4100 spectroradiometer
Xenon			
Narrow Band	340 nm	6.5 %	
Wide Band	420 nm	6.1 %	
	(300 to 400) nm	4.3 %	
Fluorescent			
Narrow Band	310 nm	6 %	
	340 nm	5.9 %	
	350 nm	5.7 %	

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Control Parameters in Weathering Instruments ^{3, 4, 6}			
Black Panel Temp.	(0 to 100) °C	0.47 °C	Fluke 51, Omega HH23 digital thermometer
Chamber/Dry Bulb/Wet Bulb Temp.	(0 to 100) °C	0.62 °C	Fluke 51, Omega HH23 digital thermometer
Relative Humidity	5 % to 90 %	3.9 %	Vaisala HMI-41 humidity calibrator
Irradiance	Varies by Instrument	6.5 % narrow band 4.7 % @broad band	Fluke 179 digital multimeter
Wattage ⁵	Up to 12 kW	0.120 kW	Yokogawa 2433-11 power meter

¹ This laboratory offers commercial calibration service and on-site calibration service.

² “Best Uncertainty” 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 of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.

³ On-site calibration service is available for this calibration. The uncertainties achievable on a customer's site can normally be expected to be larger than the Best Measurement Capabilities (BMC) that the accredited laboratory has been assigned as Best Uncertainty 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 uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the calibration uncertainty being larger than the BMC.”

⁴ This includes but is not limited to All Atlas Weather-Ometer® and Fade-Ometer® instruments, UVCon devices, UV2000 devices, Suntest instruments.

⁵ Voltages are calibrated in the artificial weathering equipment to control temperature, humidity and irradiance.

⁶ Only as used in artificial weathering instruments.