



THE AMERICAN ASSOCIATION FOR  
LABORATORY ACCREDITATION

## ACCREDITED LABORATORY

A2LA has accredited

**DAYTON T. BROWN, INC.**  
**Bohemia, NY**

for technical competence in the field of

### **Mechanical Testing**

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 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 27<sup>th</sup> day of March 2007.

A handwritten signature in black ink, appearing to read "Peter Abney", written over a horizontal line.

President  
For the Accreditation Council  
Certificate Number 0767.03  
Valid to December 31, 2008



For the tests or types of tests to which this accreditation applies,  
please refer to the laboratory's Mechanical Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

DAYTON T. BROWN, INC.  
1175 Church Street  
Bohemia, NY 11716-5031

Charles Gortakowski – Phone: 631 244 6300 / 1 800 TEST456 – Fax: 631 589 4046  
Email: [test@dtbtest.com](mailto:test@dtbtest.com) / [www.dtbtest.com](http://www.dtbtest.com)

MECHANICAL

Valid To: December 31, 2008

Certificate Number: 0767.03

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

Altitude - 14.1 Meters (-282 Feet to 122,000 Meters); 400,000 Feet or  $5 \times 10^{-6}$  TORR

Chamber Volumes up to 745 Cubic Feet

Combined Environments - Vibration and Temperature

Durability

Dye Penetrant

Explosive Environment - Chamber Volume 75 Cubic Feet, Altitudes up to 50,000 Feet

Fungus Test Area Size 36 in x 36 in

Humidity - Relative Humidity Range from Desert (2%) to a Tropical Forest (100%)

Chamber volumes up-to 3500 Cubic Feet

Magnetic Particle Inspection

Salt Fog/Spray Chamber up to a Chamber Volume of 2500 Cubic Feet

Sand & Dust Chamber Volumes up to 200 Cubic Feet; velocities up to 5700 Feet/Minute

Seat Belt Assembly Testing

Thermal Shock

Sun/Solar Radiation

Temperature - Chambers from 64 Cubic Feet to 3500 Cubic Feet;

Ambient temperatures from (-300 to 350)°F

Water Immersion

Wind and Rain

Using the following specifications directly related to the above listed testing parameters and technologies:

Test Technology

Low Pressure (Altitude)

Test Method(s)

MIL-STD-810 C (500.1), D (500.2), E (500.3), F (500.4)

High Temperature

MIL-STD-810 C (501.1), D (501.2), E (501.3), F (501.4);  
GR-63-CORE (5.1.1.2)

Low Temperature

MIL-STD-810 C (502.1), D (502.2), E (502.3), F (502.4);  
GR-63-CORE (5.1.1.1)

<u>Test Technology</u>	<u>Test Method(s)</u>
Temperature Shock	MIL-STD-810 C (503.1), D (503.2), E (503.3), F (503.4); GR-63-CORE (5.1.1.1, 5.1.1.2); MIL-STD-202 (107G)
Temperature/Altitude	MIL-STD-810 C (504.1); RTCA/DO-160E (4.0)
Temperature Variation	RTCA/DO-160E (5.9)
Solar Radiation (Sunshine) (Except UV)	MIL-STD-810 C (505.1), D (505.2), E (505.3), F (505.4)
Rain	MIL-STD-810 C (506.1), D (506.2), E (506.3), F (506.4)
Humidity	MIL-STD-810 C (507.1), D (507.2), E (507.3), F (507.4); GR-63-CORE (5.1.1.3); MIL-STD-202 (103B); RTCA/DO-160E (6.0)
Fungus	MIL-STD-810 C (508.1), D (508.2), E (508.4), F (508.5); RTCA/DO-160E (13.0)
Salt Fog	MIL-STD-810 C (509.1), D (509.2), E (509.3), F (509.4); MIL-STD-202 (101D)
Dust (Fine Sand)	MIL-STD-810 C (510.1), D (510.2), E (510.3), F (510.4); MIL-STD-202 (110A); RTCA/DO-160C (12.0)
Explosive Atmosphere	MIL-STD-810 C (511.1), D (511.2), E (511.3), F (511.4); MIL-STD-202 (109B); RTCA/DO-160E (9.0)
Leakage (Immersion)	MIL-STD-810 C (512.1), D (512.2), E (512.3), F (512.4)
Space Simulation (Unmanned Test)	MIL-STD-810 C (517.2)
Temperature/Humidity/Altitude	MIL-STD-810 C (518.1)
Temperature/Humidity/Vibration	MIL-STD-810 D (520.0), E (520.1), F (520.2)
Icing/Freezing Rain	MIL-STD-810 D (521.0), E (521.1), F (521.2)
Packaged Drop Test <i>Strap Support Only</i>	GR-63-CORE (5.3.1)
Unpackaged Equipment Drop <i>Strap Support Only</i>	GR-63-CORE (5.3.2)
Magnetic Particle	ASTM E1444
Dye Penetrant	ASTM E1417

<u>Test Technology</u>	<u>Test Method(s)</u>
Durability Transportation, 2-1 Storage	Customer Supplied Procedure
Shock and Crash Safety	RTCA/DO-160E (7.0)
Waterproofness	RTCA/DO-160E (10.0)
Fluid Susceptibility	RTCA/DO-160E (11.0)
Salt Spray	RTCA/DO-160E (14.0); ASTM B117, ASTM G85
Seat Belt Testing	FMVSS 209: S4.1 (Paragraphs (d) Hardware, (h) Webbing, (i) Strap, (j) Marking and (m) Workmanship), S4.2 (Requirements For Webbing, excluding paragraph (f) Resistance to Micro-Organisms), S4.3 (Requirements for Hardware, all paragraphs), S4.4 (Requirements for Assembly Performance, all paragraphs)
Transportation Seal Tensile Test	ISO/PAS 17712:2005, 5.2; ASTM F1157
Transportation Seal Shear	ISO/PAS 17712:2005, 5.3; ASTM F1157
Transportation Bend Test	ISO/PAS 17712:2005, 5.4; ASTM F1157
Impact Test	ISO/PAS 17712:2005, 5.5; ASTM F1157