



Accredited Laboratory

A2LA has accredited

SOUTHWEST RESEARCH INSTITUTE

San Antonio, TX

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 8 January 2009).



Presented this 30th day of June 2016.

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

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 1110.02
Valid to March 31, 2018

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SOUTHWEST RESEARCH INSTITUTE
 Structural Dynamics Department
 6220 Culebra Road
 San Antonio, TX 78228-5166
 Jenny Ferren Phone: 210 522 2329

MECHANICAL

Valid to: March 31, 2018

Certificate Number: 1110.02

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

Test Technology/ Equipment Capabilities¹

Test Method(s)^{1,2}

Full Scale Vehicle Crash Tests of Highway Safety Features

NCHRP Report 350, MASH

Standard Test Method for Vehicle Crash Testing of Perimeter Barriers

ASTM F2656

Temperature Tests:
 High and Low Temperature (-65 to 175) °C

Telcordia GR-63-CORE;
 MIL-STD-810, Methods 501, 502

Humidity Tests: (10 to 96) %RH

MIL-STD-810, Method 507

Thermal Shock
 (-65 to 175) °C

Telcordia GR-63-CORE;
 MIL-STD-810, Method 503

Altitude
 Up to 100,000 ft., (-65 to 175) °C

Telcordia GR-63-CORE;
 MIL-STD 810, Method 500

Vibration
 Sine, Random, Sine-on-Random
 2" Stroke
 20,000 Pounds Force
 (5 to 3,000) Hz

Telcordia GR-63-CORE;
 MIL-STD 810, Method 514

Mechanical Shock
 Up to 40 g's
 Up to 25 mSec pulse

Telcordia GR-63-CORE;
 MIL-STD-810, Method 516

Test Technology/ Equipment Capabilities¹

Test Method(s) ^{1,2}

High Level Mechanical Shock

Up to 1,000 g's
(.5 to 25) mSec pulse

EN 60068-2-27;
DEF-STAN 00-35;
FMVSS 218

Drop Shock

Packaged and Unpackaged

Telcordia GR-63-CORE;
MIL-STD-810, Method 516

Rain, Drip

Telcordia GR-63-CORE;
MIL-STD-810, Method 506, Procedure III

Rain, Spray

IEC/EN 60529

Rain, Blowing

Up to 70 mph

Telcordia GR-487-CORE;
MIL-STD-810, Method 506, Procedure I

Hygroscopic Dust

Telcordia GR-63-CORE;
GR-1274-CORE

Acoustic Pressure & Power

ANSI S12.54;
Telcordia GR-63-CORE

Solar Radiation, Simulation of Effects

MIL-STD-810, Method 505

Seismic Simulation (Earthquake)

Telcordia GR-63-CORE;
ICC-ES AC156;
IEEE Std 344

¹Including customer supplied and industry specifications directly related to the test technologies and parameters listed above.

²When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.