



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SOUTHWEST RESEARCH INSTITUTE  
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MECHANICAL

Valid to: May 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 Capabilities<sup>1</sup>**

**Test Method(s)<sup>1,2</sup>**

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 Capabilities<sup>1</sup>**

**Test Method(s)<sup>1,2</sup>**

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

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

<sup>2</sup>When 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*.





## *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 30<sup>th</sup> day of June 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 1110.02  
Valid to May 31, 2018  
Revised March 30, 2018

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