



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, 2020

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

Full Scale Vehicle Crash Tests of Highway Safety Features

Standard Test Method for Vehicle Crash Testing of Perimeter Barriers

Test Method for Vehicle Crash Testing of Perimeter Barriers and Gates

Surrogate Testing of Vehicle Impact Protective Devices at Low Speeds

Testing Forced Entry, Ballistic and Low Impact Resistance of Security Fence Systems

Temperature Tests¹:
High and Low Temperature (-65 to 175) °C

Humidity Tests¹: (10 to 96) %RH

Thermal Shock¹
(-65 to +175) °C

Test Method(s)²

NCHRP Report 350, MASH; EN1317

ASTM F2656

Dept. of State SD-STD-02.01

ASTM F3016

ASTM F2781

Telcordia GR-63-CORE;
MIL-STD-810, Methods 501, 502;
ECE R100; UN38.3

MIL-STD-810, Method 507

Telcordia GR-63-CORE;
MIL-STD-810, Method 503;
ECE R100; UN38.3

Test Technology/ Equipment Capabilities

Test Method(s)²

Altitude¹

Up to 100,000 ft., (-65 to +175) °C

Telcordia GR-63-CORE;
MIL-STD 810, Method 500;
ECE R100; UN38.3

Vibration¹

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;
ECE R100; UN38.3

Mechanical Shock¹

Up to 40 g's

Up to 25 mSec pulse

Telcordia GR-63-CORE;
MIL-STD-810, Method 516;
ECE R100; UN38.3

High Level Mechanical Shock¹

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, Blowing¹

Up to 70 mph

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

Hygroscopic Dust

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

Salt Fog

MIL-STD-810, Method 509

Acoustic Pressure & Power

ANSI S12.54;
Telcordia GR-63-CORE

Solar Radiation, Simulation of Effects

MIL-STD-810, Method 505;
ASTM G154; ASTM G155

Seismic Simulation (Earthquake)

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

Structural Load Testing¹

Up to 15,000 lbf

ANSI/ROHVA 1; ASTM E564



Test Technology/ Equipment Capabilities

Accelerated Weathering

Structural Performance and Water Penetration
by Uniform Static Air Pressure Difference

Test Method(s)²

ASTM D2898

ASTM E330; ASTM E331

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

² 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*.

³ In addition to the requirements of Section 1 of A2LA R101. The laboratory may perform testing to historical versions of the standards listed above if those standard versions were previously accredited by A2LA. These tests are covered under the scope of accredited testing listed above.

⁴ The laboratory meets the requirements of A2LA Policy R104 (General Requirements for Field Testing). Annotated test technologies performed in the field are accredited to ISO/IEC 17025:2005.





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 April 2017*).



Presented this 10th day of August 2018.

A handwritten signature in black ink, appearing to read "L. J. ...", positioned above a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 1110.02
Valid to March 31, 2020

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