



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SOUTHWEST RESEARCH INSTITUTE
Structural Dynamics Department
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San Antonio, TX 78228-5166
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MECHANICAL

Valid to: March 31, 2026

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 tests:

Test Technology/ Equipment Capabilities¹

Full Scale Vehicle Crash Tests of Highway Safety Features⁴

Standard Test Method for Vehicle Crash Testing of Perimeter Barriers⁴

Test Method for Vehicle Crash Testing of Perimeter Barriers and Gates⁴

Surrogate Testing of Vehicle Impact Protective Devices at Low Speeds⁴

Testing Forced Entry, Ballistic and Low Impact Resistance of Security Fence Systems⁴

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

Humidity Tests: (10 to 96) %RH

Thermal Shock
(-65 to +175) °C

Test Method(s)^{2,3}

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;
UL 2580, UL 2271; SAE J2464

Telcordia GR-63-CORE;
MIL-STD-810, Method 507

Telcordia GR-63-CORE;
MIL-STD-810, Method 503;
ECE R100; UN38.3;
SAE J2464

Test Technology/ Equipment Capabilities¹

Altitude

Up to 100,000 ft., (-65 to +175) °C

Vibration

Sine, Random, Sine-on-Random

2" Stroke

20,000 Pounds Force

(5 to 3,000) Hz

Mechanical Shock

Up to 40 g's

Up to 25 mSec pulse

High Level Mechanical Shock

Up to 1,000 g's

(.5 to 25) mSec pulse

Drop Shock

Packaged and Unpackaged

Rain, Drip

Rain, Spray

Rain, Blowing

Up to 70 mph

Dust, Settling

Acoustic Pressure & Power

Solar Radiation, Simulation of Effects

Seismic Simulation (Earthquake)

Test Method(s)^{2,3}

Telcordia GR-63-CORE;

MIL-STD 810, Method 500;

ECE R100; UN38.3

Telcordia GR-63-CORE;

MIL-STD 810, Method 514;

ECE R100; UN38.3

UL 2580, UL 2271; SAE J2380

Telcordia GR-63-CORE;

MIL-STD-810, Method 516;

ECE R100; UN38.3;

UL 2580, UL 2271; SAE J2464

EN 60068-2-27;

DEF-STAN 00-35;

FMVSS 218

Telcordia GR-63-CORE;

MIL-STD-810, Method 516;

10 CFR Part 71;

UL 2580, UL 2271; SAE J2464

Telcordia GR-63-CORE;

MIL-STD-810, Method 506, Procedure III;

IEC/EN 60529

IEC/EN 60529;

NEMA

Telcordia GR-487-CORE;

MIL-STD-810, Method 506, Procedure I

IEC/EN 60529;

NEMA

ANSI S12.54;

MIL-STD-810, Method 505;

ASTM G154, ASTM G155

Telcordia GR-63-CORE;

ICC-ES AC156;

IEEE 344

Test Technology/ Equipment Capabilities¹

Structural Load Testing⁴

Up to 400,000 lbf

Accelerated Weathering

Test Method(s)^{2,3}

ANSI/ROHVA 1; ASTM E564,

ASTM F3059

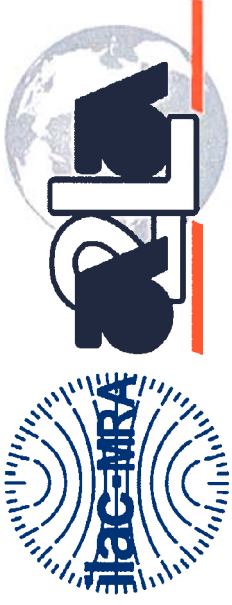
ASTM D2898

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*.

³In 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 This laboratory performs field testing activities for these tests.



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 17025:2017 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 29th day of April 2024.

A blue ink signature, appearing to read 'Trace McInturff', written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1110.02
Valid to March 31, 2026

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