



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SOUTHWEST RESEARCH INSTITUTE  
Structural Dynamics Department  
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MECHANICAL

Valid to: March 31, 2024

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>

Full Scale Vehicle Crash Tests of Highway Safety Features<sup>4</sup>

Standard Test Method for Vehicle Crash Testing of Perimeter Barriers<sup>4</sup>

Test Method for Vehicle Crash Testing of Perimeter Barriers and Gates<sup>4</sup>

Surrogate Testing of Vehicle Impact Protective Devices at Low Speeds<sup>4</sup>

Testing Forced Entry, Ballistic and Low Impact Resistance of Security Fence Systems<sup>4</sup>

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

Humidity Tests: (10 to 96) %RH

**Test Method(s)**<sup>2,3</sup>

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

**Test Technology/ Equipment Capabilities<sup>1</sup>**

Thermal Shock  
(-65 to +175) °C

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

Salt Fog

**Test Method(s)<sup>2,3</sup>**

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

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

MIL-STD-810, Method 509  
ASTM B117; UL 2580

**Test Technology/ Equipment Capabilities**<sup>1</sup>

Acoustic Pressure & Power

Solar Radiation, Simulation of Effects

Seismic Simulation (Earthquake)

Structural Load Testing<sup>4</sup>  
Up to 15,000 lbf

Accelerated Weathering

Structural Performance and Water Penetration  
by Uniform Static Air Pressure Difference

**Test Method(s)**<sup>2,3</sup>

ANSI S12.54;  
Telcordia GR-63-CORE

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

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

ANSI/ROHVA 1; ASTM E564,  
ASTM F3059

ASTM D2898

ASTM E330, ASTM E331

<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*.

<sup>3</sup>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.

<sup>4</sup> 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 3<sup>rd</sup> day of May 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1110.02  
Valid to March 31, 2024

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