



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

RCO TECHNOLOGIES, LLC¹
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MECHANICAL

Valid To: January 31, 2018

Certificate Number: 1394.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the two satellite laboratory locations listed below to perform the following tests using flexible test cells on automotive vehicles, components, seats, interior systems and aerospace/aircraft components using customer specific test methods and standards based on the test technologies and methods using the parameters listed below. Typical customer specifications: FMVSS, ECE, NHTSA, SAE, Mil-Spec, DaimlerChrysler, Ford, General Motors, Honda, and Nissan.

Test Technology/Test Parameter(s):

Test Method(s):

Durability of Seating System and Interior Parts and Vehicle Components

Mechanical Cycling (Using Pneumatics and Robotics) Up to 1,000 lbs. ²	TS-WI-05-06-08; TS-WI-05-06-03; TS-WI-05-06-35
Trim Durability Cycling (Up to 360 lbs.) ²	TS-WI-05-06-31
Jounce and Squirm and Impact (Up to 300 lbs.) ²	TS-WI-05-06-07
Robotic Ingress/Egress (Up to 360 lbs.) ²	TS-WI-05-06-06
Oscillation Durability – Vibration (Wet and Dry) (Up to 360 lbs.) ²	MIL-STD-810 F, G; TS-WI-05-06-45

Environmental Conditioning

Steady State (-50 to 115) °C, (Up to 95% RH) ²	MIL-STD-810 F, G
Cycling (-50 to 115) °C, (Up to 95% RH) ²	MIL-STD-810 F, G
Fatigue (1000 lbs. max.) ²	TS-WI-05-06-04

Test Technology/Test Parameter(s):

Test Method(s):

Environmental Conditioning (cont'd)

Electro Durability (0.1 to 50) Amp,
(0.1 to 24) Volts DC²

TS-WI-05-06-08

Torque of Seating Systems and Fasteners
(Up to 200 in./lbs.)²

TS-WI-05-06-10

Static Loading Strength (20,000 lbs. max.)

FMVSS 202, 202a, 207 (Para. S.4.3), 210, 225;
ECE R-14 (Para. 6.3, 6.6), R-17 (Para. 6.2, 6.4), R-21

Dynamic Impact (0.1 to 200) G's

FMVSS 201, 209 (Para. S.4.3);
ECE R-17 (Para. 6.8), R-21 (Para. 5.1, 5.7)

Displacement
(Up to 20 in.)²

TS-WI-05-06-34

Weight and Center of Gravity of
Seating Systems

TS-WI-05-06-23

H-Point of Seating Systems

SAE J826

Flammability

FMVSS 302

Salt Spray

Ford DVM-0042-ST

Thermal Imaging

TS-WI -08-02-16-A

Vibration
(20 to 2000) Hz

Sine and Random

Displacement: 152mm Peak to Peak
5500 Pounds Force

Combined Environment

Temperature Range (-55 to 115)°C

Humidity: 30°C up to 80% RH

MIL-STD-810 F, G (514); TS-OI-05-05-16;
TS-OI-05-05-15

Shock:

Up to 5 G's @ 34 mil/sec; 2 G's
at 55 mil/sec.

MIL-STD-810 F, G (514)

Temperature Exposure
(-55 to 120)°C

MIL-STD-810F (501.4, 501.2, 507.4);
TS-OI-05-05-20; TS-OI-05-05-22;
TS-OI-05-05-19

Motor Vehicle Seat Comfort

Overall Load Deflection

SAE J2896

Hardness Profile

SAE J2896



Test Technology/Test Parameter(s):

Test Method(s):

Motor Vehicle Seat Comfort (cont'd)

Impact Absorption

SAE J2896

¹ This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratories listed below.

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RCO ENGINEERING
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MECHANICAL

Test Technology/Test Parameter(s):

Test Method(s):

Density

ASTM D3574 (Part A)

ILD Hardness

ASTM D3574 (Part B1); DCX MS DC-634;
WSB-M2D402-A3; GM 6923M (Para. 3.2.7);
TS-WI-05-06-49

IFD Testing

ASTM D3574 (Part B2); TS-WI-05-06-49

H-Point

SAE J826; TS-WI-05-06-24

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RCO TECHNOLOGIES
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MECHANICAL

Test Technology/Test Parameter(s):

Test Method(s):

*Durability of Seating System and
Interior Parts and Vehicle Components*

Mechanical Cycling (Using Pneumatics and Robotics)
(Up to 1,000 lbs.)²

TS-WI-05-06-08; TS-WI-05-06-03;
TS-WI-05-06-35



Test Technology/Test Parameter(s):

Test Method(s):

Durability of Seating System and Interior Parts and Vehicle Components (cont'd)

Trim Durability Cycling (Up to 360 lbs.) ²	TS-WI-05-06-31
Jounce and Squirm and Impact (Up to 300 lbs.) ²	TS-WI-05-06-07
Robotic Ingress/Egress (Up to 360 lbs.) ²	TS-WI-05-06-06
Oscillation Durability – Vibration (Dry) (Up to 300 lbs.) ²	MIL-STD-810 F, G; TS-WI-05-06-45

Environmental Conditioning

Temperature: (-50 to 115) °C ²	MIL-STD-810 F, G
Temperature and Humidity (-50 to 115) °C, Up to 95% RH ²	MIL-STD-810 F, G
Fatigue (1000 lbs. max.) ²	TS-WI-05-06-04
Electro Durability (0.1 to 50) Amp, (0.1 to 24) Volts DC ²	TS-WI-05-06-08
Torque of Seating Systems and Fasteners (Up to 200 in./lbs.) ²	TS-WI-05-06-10
Static Loading Strength (20,000 lbs. max.)	FMVSS 207 (Para. S.4.3), 210, 225; ECE R-14 (Para. 6.3, 6.6)
Displacement (Up to 20 in.) ²	TS-WI-05-06-34
Weight and Center of Gravity of Seating Systems	TS-WI-05-06-23
H-Point of Seating Systems	SAE J826; TS-WI-05-06-24
Thermal Imaging	TS-WI -08-02-16-A
Vibration	
5500 Pounds Force Stroke: 4 inch peak to peak 5 to 2000 Hertz	MIL-STD-810F (514.5); TS-OI-05-05-16; TS-OI-05-05-15



Test Technology/Test Parameter(s):

Test Method(s):

Environmental Conditioning (cont'd)

Temperature Exposure
-55° to +115°C

MIL-STD-810F (501.4, 501.2, 507.4);
TS-OI-05-05-22;
TS-OI-05-05-19

² Also using customer-specified methods directly related to the types of tests and parameters listed above.





Accredited Laboratory

A2LA has accredited

RCO TECHNOLOGIES, LLC

Plymouth, MI

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 8th day of March 2016.

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

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 1394.01
Valid to January 31, 2018

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