SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

RCO TECHNOLOGIES, LLC[1]
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MECHANICAL

Valid To: January 31, 2020 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

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Test Technology/Test Parameter(s):	**Test Method(s):**
Environmental Conditioning (cont'd)	
Fatigue (5000 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 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	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.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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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

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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: (-40to 115) °C[2]	MIL-STD-810 F, G
Temperature and Humidity (-40to 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 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
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

Test Technology/Test Parameter(s):	**Test Method(s):**
Environmental Conditioning (cont'd)	
Temperature Exposure -40°C 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 28th day of January 2018.

President and CEO
For the Accreditation Council
Certificate Number 1394.01
Valid to January 31, 2020

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