



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT DES MOINES
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MECHANICAL

Valid To: December 31, 2020

Certificate Number: 1479.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following mechanical tests on rubber brake hoses, hose products, rubber products, plastics and glass, business furniture, towing products, and fenestration products:

<u>Test:</u>	<u>Test Method(s):</u>
Brake Hose	ASTM D571, D622; FMVSS 106; SAE J1401, J1402, J1403; GM 6405M; MS-EA-75 <S>; Canada - CMVSS 106 and TSD #106; Australian Design Rules – ADR 7/00 (<i>Withdrawn 2005</i>) ¹ , ADR 42/03 and ADR 42/04; China – GB 16897; Japanese Industrial Standard – JIS D2601; ISO 3996; Volkswagen TL901
Vibration	MIL-STD-810 Method 514; IEC 60068-2-64
Non-Metallic Tubing	FMVSS 106; SAE J844, J1037, J1131, J1394, J2494-3
Ozone	ASTM D518-99 (<i>Withdrawn 2008</i>) ¹ , D1149, D1171
Hose Testing	ASTM D380; SAE J188 (<i>Except 9.1</i>), J343 (<i>Except 4.6, 4.11 and 4.12</i>), J2050 (<i>Except 9.1</i>)
Durometer Hardness (Shore A and Shore D)	ASTM D2240

<u>Test:</u>	<u>Test Method(s):</u>
Xenon-Arc Light Exposure, (With and Without Water)	ASTM D2565, D3794, D4355, D4459, D5071, D6695, G151, G155; ISO 4892-1; SAE J2527
Abrasion Resistance by Taber Abraser	ASTM D4060
Glass & Plastic	ASTM D1003 Procedure A, D1044
Architectural Safety Glazing Test	ANSI Z97.1 (<i>Except 5.3 and 5.3.2.1</i>); CPSC 16 CFR 1201 (<i>Except Xenon Exposure</i>); CAN/CGSB-12.1
Glazing Materials for Motor Vehicles	ANSI/SAE Z26.1 (<i>Except 5.16, 5.21-5.25 and 5.27</i>); FMVSS 205 ³
Salt Spray (Fog) Testing	ASTM B117
Towing Connections	VESC V-19
Trailer Couplings, Hitches, and Safety Chains	SAE J684; VESC V-5
Trailer Tow Bar Eye and Pintle Hook/Coupler Performance	SAE J847
Weatherability	ASTM G154
Windows, Doors and Curtain Walls	ASTM E283, E330, E331, E547, E783 ² , E987 Method A, E1105 ² , E1886, E1996, E2068, F588, F842, F2090; AAMA 450, 501 ² , 502 ² , 503 ² , 506, 910, 920, 925, 1302.5, 1303.5, 1304, 1701.2, 1704; AAMA/WDMA/CSA 101/I.S.-2/A440; CAN/CGSB-82.1-M89; CSA A440 (except 11.12), A440S1 ³ ; TAS 201, 202, 203; WDMA I.S.11 ³

¹ This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

² This laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories for these tests or calibrations.

³ The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications identified above; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications.



Accredited Laboratory

A2LA has accredited

ELEMENT DES MOINES

Des Moines, IA

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 17th day of December 2018.

A blue ink signature of the Senior Director of Accreditation Services.

Senior Director, Accreditation Services
For the Accreditation Council
Certificate Number 1479.02
Valid to December 31, 2020

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