SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HUMANETICS
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MECHANICAL

Valid To: November 30, 2026 Certificate Number: 2421.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of Crash Test Dummy tests:

Test Type	Parameter(s)	Range	Test Method(s)
Head Drop	Resultant Acceleration Lateral Acceleration Unimodal Oscillation Temperature Humidity	300 g ± 15 g (0 to 17) % (18 to 26) °C (10 to 70) % RH	49 CFR, Part 572 Subpart: • E (H3-50) • N (H3-6YO) • O (H3-5) • P (H3-3) • R (Crabi-12) • T (H3-10) • U (ESID2-RE) • V (SID2s) ECE 94: Regulation 95 (ESID2) SAE J2860 (H3-95) ISO 15830-2 (WorldSID 50th)

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Test Type	Parameter(s)	Range	Test Method(s)
Neck Pendulum	Velocity Acceleration Rotation Moment Displacement Temperature Humidity	(2.40 to 7.77) m/s (0 to 30) g (45 to 114) deg (12.0 to 130) Nm (-20 to 168) mm (18 to 26) °C (10 to 70) % RH	49 CFR, Part 572 Subpart: • E (H3-50) • M (SID H3) • N (H3-6YO) • O (H3-5) • P (H3-3) • R (Crabi-12) • T (H3-10) • U (ESID2-RE) • V (SID2s) ECE 94: Regulation 95 (ESID2) SAE J2860 (H3-95) ISO 15830-2 (WorldSID 50th) THOR 50th Percentile Male Qualification Procedures Manual (THOR-50M Metric) EURONCAP THOR Specification and Certification (THOR-50M ENCAP)
Thorax Impact	Velocity Displacement Hysteresis Acceleration Force Rotation Moment	(2.94 to 6.83) m/s (0 to 76.0) mm (50 to 85) % (14 to 70) g (1 to 11.1) kN (-21 to 29) deg (-23.5 to 17.8) Nm; (20 to 83) m/s	49 CFR, Part 572 Subpart: • E (H3-50) • M (SID H3) • N (H3-6YO) • O (H3-5) • P (H3-3) • R (Crabi-12) • T (H3-10) • U (ESID2-RE) • V (SID2s) SAE J2779 (H3-50 L\S) SAE J2860 (H3-95) SAE J2878 (H3-5 L\S)

Test Type	Parameter(s)	Range	Test Method(s)
Thorax Impact cont.	Temperature Humidity	(18 to 26) °C (10 to 70) % RH	ISO 15830-2 (WorldSID 50th) ECE 94: Regulation 95 (ESID2) BIORID: ECE/TRANS/WP.29/1101/Amend.3/Addendum 1 THOR 50th Percentile Male Qualification Procedures Manual (THOR-50M Metric) EURONCAP THOR Specification and Certification (THOR-50M ENCAP)
Torso Flexion	Velocity Force Angle Temperature Humidity	(0.5 to 1.5) °/s (130 to 550) N (0 to 50) ° (18.9 to 25.6) °C (10 to 70) % RH	49 CFR, Part 572 Subpart: • N (H3-6YO) • O (H3-5) • P (H3-3) • T (H3-10) SAE J2860 (H3-95)
Hip Flexion	Velocity Angle Torque Temperature Humidity	(5 to 10) °/s (0 to 50) ° (0 to 203) Nm (18 to 26) °C (10 to 70) % RH	49 CFR, Part 572 Subpart: • E (H3-50) SAE J2862 (H3-5)

Test Type	Parameter(s)	Range	Test Method(s)
Rib Module	Velocity Displacement Temperature Humidity	(1 to 10) m/s (10 to 51.0) mm (18 to 26) °C (10 to 70) % RH	49 CFR, Part 572 Subpart: • U (ESID2-RE) ECE 94: Regulation 95 (ESID2)
Knee Impact	Velocity Force Temperature Humidity	(2 to 3) m/s (2.0 to 7.3) kN (18 to 26) °C (10 to 70) % RH	49 CFR, Part 572 Subpart: • E (H3-50) • N (H3-6YO) • O (H3-5) • T (H3-10) SAE J2862 (H3-5) SAE J2860 (H3-95)
Knee Slider Impact	Velocity Displacement Force Temperature Humidity	(1.5 to 3) m/s (9.3 to 18.3) mm (1.26 to 3.10) kN (18 to 26) °C (10 to 70) % RH	SAE J2856 (H3-50) SAE J2860 (H3-95) SAE J2862 (H3-5) SAE J2876 (H3-50 Low Speed)
Foot Impact	Velocity Force Moment Acceleration Temperature Humidity	(4.3 to 6.8) m/s (2.8 to 3.8) kN (95 to 145) Nm (245 to 345) g (19 to 25) °C (10 to 70) % RH	ECE Regulation 94: Addendum 93: Annex 10 (H3-50)

Accredited Laboratory

A2LA has accredited

HUMANETICS

Farmington Hills, MI

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 12th day of November 2024.

Mr. Trace McInturff Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2421.02
Valid to November 30, 2026
Revised October 28, 2026

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