PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Calspan LLC

4455 Genesee Street, Buffalo, NY 14225

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Mechanical Testing

(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
July 17, 2013	August 13, 2024	November 30, 2026

Accreditation No.:	*Certificate No.:*
76654	L24-616

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Calspan LLC
4455 Genesee Street, Buffalo, NY 14225
Contact Name: Daryl Wiese Phone: 716-631-6769

Accreditation is granted to the facility to perform the following testing:

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED
F1, F2, F3, F4, F5	Mechanical [F]	Perimeter Barrier	Small Passenger (C)	ASTM F2656	Track Guided, Speed Controlled Impacts
F1, F2, F3, F4, F5			Pickup Truck (T)		
F1, F2, F3, F4, F5			Medium-Duty Truck (M)		
F1, F2, F3, F4, F5			Penetration Distance		
F1, F2, F3, F4, F5			Debris Distance		
F1, F2, F3, F4, F5		Roadside Safety Devices	Passenger Car	Manual for Assessing Safety Hardware (MASH)	
F1, F2, F3, F4, F5			Impact Speed		
F1, F2, F3, F4, F5			Pickup Truck		
F1, F2, F3, F4, F5			Single-Unit Truck		
F1, F2, F3, F4, F5			Impact Angle and Location		
F1, F2, F3, F4, F5			Post- Impact Vehicular Response		
F1, F2, F3, F4, F5			Structural Adequacy Occupancy Risk		
F1, F2, F3, F4, F5		Child Restraint Seat Systems	Dynamic Test	ECE/UN R44	1MN & 3MN Sled
F1, F2, F3, F4, F5				FMVSS 213	
F1, F2, F3, F4, F5				CMVSS 213	
F1, F2, F3, F4, F5		Ambulance & Equipment	Dynamic Test	SAE J2917 SAE J2956 SAE J3044 SAE J3043 SAE J3058 SAE J3059 BS EN 1789 SAE J3027 SAE J3026 SAE J3102	

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F1, F2, F3, F4, F5	Mechanical [F]	Anthropomorphic Test Dummy (ATD)	Component Certification Pendulum Test Drop Test Impact Test	CFR 572, Subpart R CFR 572, Subpart P CFR 572, Subpart I CFR 572, Subpart N CFR 572, Subpart M CFR 572, Subpart O SAE J2878, Low Speed Thorax Impact CFR 572, Subpart E SAE J2856, Knee Slider High Speed SAE J2876, Knee Slider Low Speed	1MN & 3MN Sled
F1, F2, F3, F4, F5			Component Certification Pendulum Test Drop Test Impact Test	SAE J2779, Low Speed Thorax Impact NHTSA THOR Qualification Procedures Manual, 2018; 4-14 THOR-50M EuroNCAP SBL-A, 2017 NHTSA THOR-50M Qualification Procedure, Sept-18 EuroNCAP TB026, V1.2 ECE-R 95 CFR 572, Subpart U NHTSA WorldSID 50th Male Qualification Procedure, 2019 Humanetics User Manual WorldSID 50th, rev K CFR 572, Subpart V Humanetics User Manual Q0 Humanetics User Manual Q1 Humanetics User Manual Q1.5 Humanetics User Manual Q3 Humanetics User Manual Q3s Humanetics User Manual Q6 Humanetics User Manual Q10	
F1, F2, F3, F4, F5		Vehicle Crash Testing	Full Frontal Impact Testing	ECE/UN R12 ECE/UN R94 ECE/UN R137 FMVSS 208/212/219 FMVSS 301 FMVSS 305 US NCAP EURO NCAP TNCAP ADR 69	Track Guided, Speed Controlled Impacts

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F1, F2, F3, F4, F5	Mechanical [F]	Vehicle Crash Testing	Frontal Offset/Oblique Impact Testing	ECE/UN R94 VSTD 46-3 FMVSS 208 FMVSS 301 FMVSS 305 US NCAP EURO NCAP/ANCAP Latin NCAP ASEAN NCAP TNCAP RCAR IIHS SORB IIHS ODB	Track Guided, Speed Controlled Impacts
F1, F2, F3, F4, F5			Side Impact Testing	VSTD 46-3 ECE/UN R945 ECE/UN R135 ADR 72 ADR 85 FMVSS 208 FMVSS 214 FMVSS 301 US NCAP EURO NCAP/ANCAP Latin NCAP ASEAN NCAP TNCAP IIHS	
F1, F2, F3, F4, F5			Rear Impact Testing	ECE/UN R32 ECE/UN R34 ECE/UN R153 VSTD 86 FMVSS 301 FMVSS 305 EURO NCAP/ANCAP Latin NCAP RCAR	

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.

2. Flex Code:
F1-Introduction of the testing of a new item, material, matrix, or product for an accredited test method
F2-Introduction of a new version of an accredited standard method (with no modifications)
F3-Introduction of a new parameter/component/analyte to an accredited test method
F4-Introduction of a new version or modifications of an accredited non-standard method
F5-Introduction of a new method that is equivalent to an accredited method (using same technology or technique)