



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

### **Calspan Corporation**

**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

*Initial Accreditation Date:*

July 17, 2013

*Issue Date:*

October 8, 2020

*Expiration Date:*

December 31, 2022

*Accreditation No.:*

76654

*Certificate No.:*

L20-602

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

*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.pjllabs.com](http://www.pjllabs.com)*



# Certificate of Accreditation: Supplement

## Calspan Corporation

4455 Genesee Street, Buffalo, NY 14225

Contact Name: Scott Abramowski Phone: 716-631-6989

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

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT	
Mechanical <sup>F</sup>	Vehicle Crash Testing of Perimeter Barrier	Small Passenger (C)	ASTM F2656	Rating P1-P4	
		Pickup Truck (T)			
		Medium-Duty Truck (M)			
			Penetration Distance	IWA 14-1:2013 PAS 68:2013	0 m to 30 m
			Debris Distance		
			Penetration Distance	ASTM F3016	Rating P1-P2 S10. S20. S30
			Impact Speed		
	Roadside Safety Devices	Passenger Car Pickup Truck Single-Unit Truck Impact Speed Impact Angle and Location Structural Adequacy Occupancy Risk Post-Impact Vehicular Response	Manual for Assessing Safety Hardware (MASH) Manual	Various	
	Child Restraint Seat Systems	Dynamic Test	ECE R44	Head Excursion – Various	
			FMVSS 213	Head/Knee Excursion – Various	
	CMVSS 213				
	Ambulance & Equipment		SAE J2917	Acceleration – Various	
			SAE J2956		
			SAE J3044		
SAE J3043			Visual Inspection		
SAE J3058					
SAE J3059			Excursions – Various, Visual Inspection		
BS EN 1789					
SAE J3027			Head Excursion – 0 in to 14 in		
SAE J3026	Injury Criteria – Various Visual Inspection				
SAE J3102	Various				



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Mechanical <sup>F</sup>	ATD Head Drop	Resultant Acceleration	CFR 49	0 g to 300 g
		Lateral Acceleration	Part 572 – Subpart E,	D.L. = 15 g
		Unimodal Oscillation	I, M, N, O, P, R, U, V	0 % to 17 %
		Temperature	-ECE R95	18.9 °C to 25.6 °C
		Humidity	-WorldSID50th User Manual	10 % to 70 %
	ATD Head Impact	Velocity	FM-ATD-HDTH50-069*	1.95 m/s to 2.05 m/s
		Acceleration		0 g to 124.2 g
		Force		0 N to 5 972 N
		Temperature		20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	ATD Face Impact	Velocity	FM-ATD-FCTH50-068*	6.68 m/s to 6.78 m/s
		Acceleration		0 g to 267 g
		Force		0 N to 11 143 N
		Temperature		20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	ATD Neck Pendulum	Impact Velocity	CFR 49, Part 572 – Subpart E, I, N, O, P, R, U, V	3.3 m/s to 7.13 m/s
		Dynamic Velocity		0 m/s to 4.92 m/s
		Acceleration	-FM-ATD-NETH50-072*	0 g to 34.1 g
		Rotation		0° to 114°
		Force	-FM-ATD-NFFTH50-073*	0 N to 2 893 N
		Moment	-FM-ATD-NLFTH50-074*	0 Nm to 130 Nm
		Angular Rate		0 °/s to 2 114 °/s
		Temperature	-FM-ATD-NTTH50-075*	18.9 °C to 25.6 °C
		Humidity	-ECE R95 -WorldSID 50 <sup>th</sup> User Manual -Q0, 1, 1.5, 3, 6 and 10 User Manual -Q3s User Manual/NPRM	10 % to 70 %



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Mechanical <sup>F</sup>	ATD Shoulder Impact	Velocity	CFR 49, Part 572 – Subpart U, V	4.2 m/s to 4.4 m/s
		Displacement	-WorldSID 50 <sup>th</sup> User Manual	0 mm to 37 mm
		Acceleration	-Q10 User Manual	0 g to 25 g
		Temperature	-Q3s User Manual/NPRM	20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	ATD Thorax Impact	Velocity	CFR 49, Part 572 – Subpart E, I, N, O, P, R, U, V	4.2 m/s to 6.83 m/s
		Displacement	-FM-ATD-UTTH50-077*	0 mm to 72.6 mm
		Acceleration	-FM-ATD-LTTH50-071*	0 g to 212 g
		Hysteresis	-ECE R95	50 % to 70 %
		Force	-WorldSID 50 <sup>th</sup> User Manual	0 N to 11 100 N
		Temperature	-Q1, 1.5, 3, 6 and 10 Manual	18.9 °C to 25.6 °C
		Humidity	-Q3s User Manual/ NPRM	10 % to 70 %
	ATD Abdomen Impact	Velocity	CFR 49, Part 572 – Subpart U, V	3.2 m/s to 4.4 m/s
		Force	-FM-ATD-ABTH50-067*	0 N to 4 800 N
		Acceleration	-ECE R95	0 g to 16 g
		Displacement	-WorldSID 50 <sup>th</sup> User Manual	0 mm to 101.6 mm
		Temperature	-Q1, 1.5, 3, 6 and 10 Manual	20.6 °C to 22.2 °C
		Humidity	-Q3s User Manual/ NPRM	10 % to 70 %
	ATD Abdomen Certification	Displacement	-Q1, 1.5, 3, 6 and 10 User Manual	0 mm to 20 mm
		Time	-Q3s User Manual/ NPRM	0 s to 180 s



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Mechanical <sup>F</sup>	ATD Torso Flexion	Velocity	CFR 49, Part 572 – Subpart N, O, P	0.5 %/s to 1.5 %/s
		Force		0 N to 390 N
		Angle		0° to 45.5°
		Temperature		18.9 °C to 25.6 °C
		Humidity		10 % to 70 %
	ATD Lumbar Pendulum	Impact Velocity	CFR 49, Part 572 – Subpart U -Q0, 1, 1.5, 3, 6, and 10 User Manuals -Q3s User Manual/ NPRM -ECE R95	5.95 m/s to 6.15 m/s
		Dynamic Velocity		Corridor
		Rotation		0° to 55°
		Temperature		20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	ATD Hip Flexion	Angular Velocity	CFR 49, Part 572 – Subpart E	5 %/s to 10 %/s
		Angle		0° to 50°
		Torque		0 Nm to 203 Nm
		Temperature		18.9 °C to 25.6 °C
		Humidity		10 % to 70 %
	ATD Rib Module	Velocity	CFR 49, Part 572 – Subpart U	3 m/s to 4 m/s
		Displacement		0 mm to 51 mm
		Temperature		20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	ATD Pelvis Impact	Velocity	CFR 49, Part 572 – Subpart U, V -WorldSID 50 <sup>th</sup> User Manual -ECE R95 -Q10 User Manual -Q3s User Manual/ NPRM	4.2 m/s to 6.8 m/s
		Acceleration		0 g to 47 g
		Force		0 N to 5 400 N
		Temperature		20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	ATD Iliac Impact	Velocity	CFR 49, Part 572 – Subpart V	4.2 m/s to 4.4 m/s
		Acceleration		0 g to 45 g
		Force		0 N to 4 300 N
		Temperature		20.6 °C to 22.2 °C
Humidity		10 % to 70 %		



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Mechanical <sup>F</sup>	ATD Knee Impact	Velocity	CFR 49, Part 572 – Subpart E, N, O	2.07 m/s to 2.13 m/s
		Force		0 N to 5 780 N
		Temperature		18.9 °C to 25.6 °C
		Humidity		10 % to 70 %
	ATD Knee Slider Impact	Velocity	FM-ATD-KNTH50-070*	2.15 m/s to 2.25 m/s
		Displacement		0 mm to 20.9 mm
		Force		0 N to 7 170 N
		Temperature		20.6 °C to 22.2 °C
	ATD Upper Leg Impact	Velocity	FM-ATD-ULTH50-076*	2.55 m/s to 2.65 m/s
		Force		0 N to 5 093 N
		Temperature		20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	ATD Lower Leg / Foot Impact	Velocity	FM-ATD-INLX-060* FM-ATD-EVLX-061* FM-ATD-HFLX-062* FM-ATD-BFLX-063*	1.9 m/s to 5.1 m/s
		Force		0 N to 3 477 N
		Rotation		0° to 35.6°
		Moment		0 Nm to 61.3 Nm
		Temperature		20.6 °C to 22.2 °C
		Humidity		10 % to 70 %
	Vehicles	Arrangement of Foot Controls - Dimensional	ECE R35	Head, Body Excursion, Dislocation - Various
	Vehicle Impact Testing	Speed, Weight, Injury Criteria, Vehicle Response	ECE R12	Various
ECE R34				
ECE R94				
ECE R95				
Vehicle Frontal Impact Testing		Internal work Instruction (Based upon FMVSS 208 and NCAP)		
Vehicle Frontal Offset Deformable Barrier Testing				
Vehicle Front Left/Right Oblique Barrier Testing				



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Mechanical <sup>F</sup>	Vehicle Side Impact Testing	Speed, Weight, Injury Criteria, Vehicle	Internal Work Instruction (Based upon FMVSS 214 and NCAP)	Various
	Vehicle Rear Impact Testing	Response	Internal Work Instruction (Based upon FMVSS 301 and NCAP)	

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this testing at its fixed location.
2. The presence of an asterisk (\*) means that these forms/procedures and accompanying ranges are per the version of the most current THOR-50 Qualification Procedures Manual issued by NHTSA.

