



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Phoenix National Laboratories LLC

941 S. Park Lane, Tempe, AZ 85281

*and hereby declares that the Organization is accredited in accordance with
the recognized International Standard:*

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Chemical, Mechanical, and Non-Destructive Testing (As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

February 20, 2012

July 01, 2026

July 31, 2028

Tracy Szerszen
President

Accreditation No.:

Certificate No.:

71936

L26-599

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.pjlab.com*



Certificate of Accreditation: Supplement

Phoenix National Laboratories LLC

941 S. Park Lane, Tempe, AZ 85281

Contact Name: Kellie Watson Phone: 602-431-8887

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	FLEX CODE	LOCATION OF ACTIVITY
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Tensile Strength, Ultimate Elongation, Permanent Set	ASTM D412 ASTM D4894	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Tensile Strength, Tensile Stress at Yield, Ultimate Elongation	ASTM D638	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Hardness	ASTM D2240	Durometer	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Heat Resistance, Change in Hardness, Tensile Strength, Ultimate Elongation	ASTM D573	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Compression Set, Oven Aged	ASTM D395 Method B	Oven	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Compression Set, Low Temp	ASTM D1229	Freezer	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Ozone Resistance	ASTM D1149 ASTM D518	Ozone Chamber	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Low Temperature Brittleness	ASTM D746 Procedure B, ASTM D2137	Brittleness Impact	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Instantaneous Thermal Stiffening (Clashburg)	ASTM D1043	Rotational Tester	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Shear Modulus	ASTM D4014, Annex A	Universal Machine	F1, F2	F



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Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Low Temperature Crystallization	AASHTO LRFD, Sect 18, AASHTO M251	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings Elastomeric Slide Bearings, Bearings w/ PTFE slide surfaces	Cold Temperature Shear Test	AREMA Ch 15 Sect. 5	Hydraulic Custom Compression-Shear Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Adhesion	ASTM D429, Method B	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Adhesion	TX-601-J	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Creep/Shear Bond	AASHTO M251	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Tear Strength	ASTM D624 (Type C)	Universal Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings Elastomeric Joints and Seals	Movement Rating	CTM 673	Instron UTM, Digital Calipers	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Oil Swell	ASTM D471	Volume	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Chlorinated Compound Test	TX-601-J	Visual	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Short/Long Duration Compression Test	AASHTO LRFD, Sect. 18 CHB Design Code S6	Custom Compression Machine	F1, F2	F



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Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Compression Strain	AASHTO M251 CHB Design Code S6 LS-428	Custom Compression Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Low/High Temperature Recovery	ASTM D2628	Custom Compression Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Compression Deflection	ASTM D575	Custom Compression Machine	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Density and Specific Gravity	ASTM D4894 ASTM D792, Method A	Direct Measurement	F1, F2	F
Mechanical	Elastomeric Bridge Bearings, Elastomeric Slide Bearings, Bearings w/ PTFE slide surfaces	Coefficient of Friction	AASHTO LRFD, Sect. 18, DOT and Provincial Standards	Hydraulic Custom Compression-Shear Machine	F1, F2	F
Mechanical	Structural Steel, Welded Plate and Pipe	Mechanical Properties Tension Test Bend Test Hardness Test	ASTM A370	Universal Machine	F1, F2	F
Mechanical	Structural Steel, Welded Plate and Pipe	Charpy Impact Test - Sample Prep Only	ASTM E18	Universal Machine	F1, F2	F
Mechanical	Structural Steel, Welded Plate and Pipe	Tension Testing of Metallic Materials	ASTM E8	Universal Machine	F1, F2	F
Mechanical	Structural Steel, Welded Plate and Pipe	Testing of Steel Reinforcement Bars – Tension / Elongation / Yield Load/Bend	ASTM A615 ASTM A706	Universal Machine	F1, F2	F



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Dimensional Inspection	Elastomeric Bridge Bearings, Expansion Joints and Seals, Sealants, Rubber, Plastics, PTFE	Dimensions	AASHTO M251, CHB S6, AREMA Ch 15 Sect. 5, ASTM D4014, MoT Ontario LS429, DOT and Provincial standards, D3767	Digital calipers, Steel rule	F1, F2	F
Non-Destructive	Metals/Metallic Coatings	Grain Size	ASTM E112	Microscope	F1, F2	F
Nondestructive	Determining FF Floor Flatness and FL Floor Levelness	Floor Flatness, Floor Levelness	ASTM E1155	3D Laser Scanning System	F1, F	F
Non-Destructive	Metals/Metallic Coatings	Hardness, HV or HK	ASTM E92	Indentation	F1, F2	F
Non-Destructive	Metals/Metallic Coatings	Metallic Coating Thickness, Cross-Sectioning	ASTM B748	Microscope	F1, F2	F
Non-Destructive	Metals/Metallic Coatings	Scanning Electron Microscope Analysis (SEM)	SOP SEM-1	SEM Spectroscopy	F1, F4	F
Non-Destructive	Metals/Metallic Coatings	With Energy Dispersive Spectroscopy (EDS)	SOP SEM-1	SEM Spectroscopy	F1, F4	F
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Ultrasonic Testing (UT)	ASME Section V Articles 4 and 5; ASME Sections I, VIII, IX, B31.1, B31.3; AWS D1.1, D1.5, API 1104, 650 ASTM A388, E164, A609, E797	Pulse-Echo Flaw Detectors and Thickness Gauges	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Ultrasonic Phased Array Testing (UTPA)	ASME Section V Article 4, Section VIII – Division 2, API 650, AWS D1.1, D1.5	Automated and Semiautomated	F1, F2	F, O



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Non-Destructive	Commercial and Industrial Based Construction Projects Including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Radiographic Testing (RT)	ASME Section V Article 2; ASME Sections I, VIII, IX, B31.1, B31.3; AWS D1.1, D1.5; API 1104, 650; ASTM E94, E1032, E1742 AWWA D100	Gamma X-ray	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Computed Radiographic Testing (CRT)	ASME Section V Article 2, Appendix VIII, AWS D1.1	Gamma X-ray	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Magnetic Particle Testing (MT)	ASME Section V Article 7; ASME Sections I, VIII, IX, B31.1, B31.3; AWS D1.1, D1.5; API 1104, 650, ASTM E709	Cables, Prods, Yokes	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Liquid Penetrant Testing (PT)	ASME Section V Article 6; ASME Sections I, III, VIII, IX, B31.1, B31.3; AWS D1.1, D1.5; API 1104, 650, ASTM E165 Type I, Type II Method C	Type I, Type II Method C	F1, F2	F, O



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Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Electromagnetic Testing (ET)	ASME Section V Article 8	Inside coil Pencil probe	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Visual Testing (VT)	ASME Section V Article 9; ASME Sections I, III, VIII, IX, B31.1, B31.3; AWS D1.1, D1.2, D1.3, D1.4, D1.5, D1.6; API 1104, 650, 653	Direct and Remote	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Leak Test (Bubble, Pressure, Voltage)	API 650, ASME B31.3, ASTM E1003	Bubble, Pressure, Voltage	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Magnetic Flux Leakage (MFL)	API 653 Annex G	Magnetics	F1, F2	F, O



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Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Equipment Evaluations	API 510, 570, 653 API 579/ASME FFS-1	Engineering Evaluators	F1, F2	F, O
Non-Destructive	Commercial and Industrial Based Construction Projects including Bridges, Buildings, Pressure Vessels, Pipelines, Tanks; Manufacturing During and After Fabrication of Materials and Products	Metallurgical Field Replications	ASTM E1351	Microscopic	F1, F2	F, O
Non-Destructive	Special Inspections per the International Building Code (IBC)	ICC – Spray Applied Fireproofing	IBC Section 1705 ASTM E605, ASTM E736, Technical Manuals 12A and 12B	Field and Shop Inspection and Testing	F1, F2	F, O
Non-Destructive	Special Inspections per the International Building Code (IBC)	ICC – High Strength Bolts and Structural Steel	IBC, Section 1705 AISC Specification for A325 and A490 High Strength Bolts	Field and Shop Inspection	F1, F2	F, O
Non-Destructive	Special Inspections per the International Building Code (IBC)	ICC – Welding Inspection	IBC Section, 1705 AWS D1.1, D1.3, D1.4, AISC Code of Standard Practice	Field and Shop Inspection and Testing	F1, F2	F, O
Non-Destructive	Special Inspections per the International Building Code (IBC)	CC – Post Installed Anchors in Hardened Concrete Members	IBC Section 1705.3 and Manufacturer's Documentation	Field and Shop Inspection and Testing	F1, F2	F, O
Non-Destructive	Special Inspections per the International Building Code (IBC)	IFC- Firestop	ASTM E2174 ASTM E2393	Field and Shop Inspection and Testing	F1, F2	F, O
Non-Destructive	Structural Steel, Welded Plate and Pipe	Hardness	ASTM A833 ASTM E110	UCI Leebs Tellebrineller	F1, F2	F, O



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Non-Destructive	Structural Steel, Welded Plate and Pipe	Positive Material Identification	Thermo Scientific Niton XL3t Sciaps Z200C+	XRF	F1, F2	F, O
Non-Destructive	Structural Concrete	Ground Penetrating Radar	Geophysics Structure Scan SIR-3000	Electromagnetic Radar	F1, F2	F, O
Non-Destructive	Structural Concrete	Anchor Bolt Pull Out Tests	ASTM E488	Hydraulic	F1, F2	F, O
Non-Destructive	Welding Procedure Qualification and Welder Qualifications	Administration of Qualifications at PNL Weld Test Booths or in Field	ASME IX; API 1104; AWS B2.1, D1.1, D1.2, D1.3, D1.4, D1.5, D1.6, D17.1	Administrative	F1, F2	F, O
Non-Destructive	PQR and WPQ Testing	X-ray, Tensile Tests, Bend Tests, Fillet Weld Break Tests, Macro-Etching, Twist Tests, Nick Break Tests, Hardness Profiles	ASME IX; API 1104; AWS B2.1, D1.1, D1.2, D1.3, D1.4, D1.5, D1.6, D17.1 ASTM A370	Mechanical Testing	F1, F2	F, O
Chemical	Organic Compounds	Positive Material Identification, Identity	Procedure FTIR-1	FTIR	F1, F2	F



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1. Location of activity:

Location

F

O

Location

Conformity assessment activity is performed at the CABs fixed facility

Conformity assessment activity is performed onsite at the CABs customer location

2. Flex Code:

F0- Fixed scope item. No deviations allowed to the line item as identified, except for updating to the most recent version of an accredited standard method after verification.

F1- Laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope

F2- Laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope

F3- Laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope

F4- Laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope

F5- Laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope

