



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

**Designed Metal Connections dba Permaswage
Engineering R&D Laboratory**
14800 S. Figueroa Street
Gardena, CA 90248

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to be 'J. Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 13 September 2024

Certificate Number: L2328



This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

**Designed Metal Connections dba Permaswage
Engineering R&D Laboratory**

14800 S. Figueroa Street
Gardena, CA 90248
Cristopher Guzman
310 217 3178

TESTING

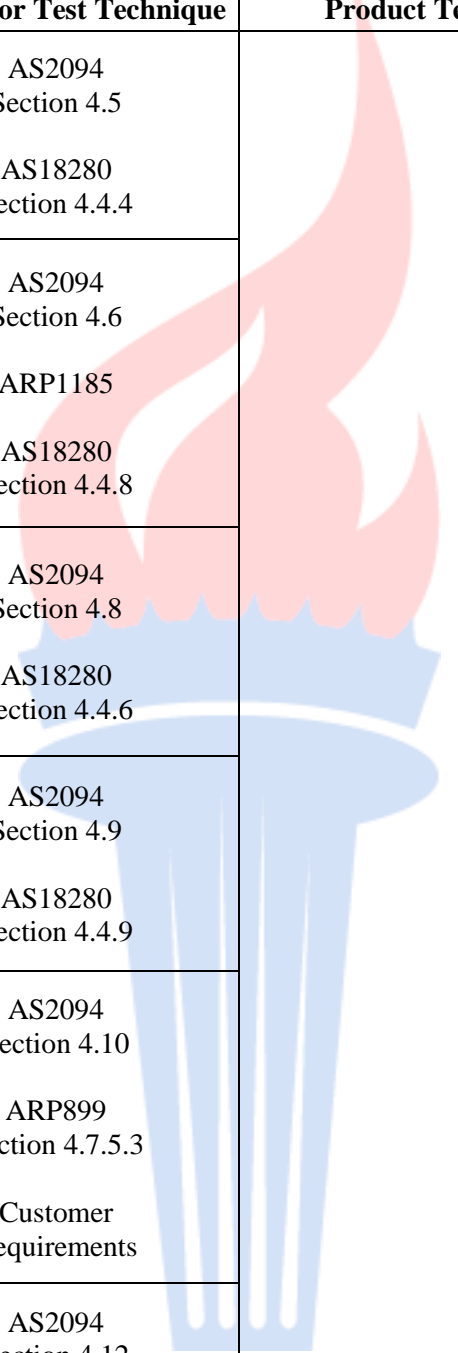
Valid to: **September 13, 2024**

Certificate Number: **L2328**

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Hydraulic Proof Pressure (Up to 100 000) psig	AS2094 Section 4.1 AS18280 Section 4.4.3		Hydraulic Burst Chamber
Pneumatic (Gaseous) Leak Test (Up to 6 000) psig	AS2094 Section 4.2 AS18280 4.4.5		Pneumatic Chamber
Pressure Impulse Test (Up to 25 000) psig	AS2094 Section 4.3 AS18280 Section 4.4.7 AS603 AS4265		Hydraulic Impulse Chamber
System Pressure Test	AS2094 Section 4.4		System Pressure Fixture

Mechanical

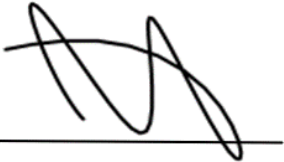
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Hydrostatic Burst Pressure (Up to 100 000) psig	AS2094 Section 4.5 AS18280 Section 4.4.4		Hydraulic Burst Chamber
Flexure Fatigue Test	AS2094 Section 4.6 ARP1185 AS18280 Section 4.4.8		Rotary Flex Test Machine
Repeated Assembly (Reuse) Test	AS2094 Section 4.8 AS18280 Section 4.4.6		Torque Wrench
Joint Tensile Strength (Up to 120 000) lb	AS2094 Section 4.9 AS18280 Section 4.4.9		Tensile Test Machine
Thermal Shock Test Low to High Temperature (Up to 8 000) psig	AS2094 Section 4.10 ARP899 Section 4.7.5.3 Customer Requirements		Thermotron Test Chamber & Thermal Shock Test Machine
Electrical Bonding Test	AS2094 Section 4.12		Micro Ohm-Meter

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Torsion (Torque) Test (up to 400) lbf-ft	AS2094 Section 4.13 ASTM F1387 Section S5		Torque Wrench
Tension Testing of Metallic Materials	ASTM E8/E8M		Tension Test Machine

Note:

1. This laboratory offers internal and commercial testing service.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2328.



Jason Stine, Vice President

