

---



---

## Scope of Accreditation For Designed Metal Connections dba Permaswage Engineering R&D Laboratory

14800 S. Figueroa Street  
Gardena, CA 90248  
Cristopher Guzman  
(310) 217-3171

In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Designed Metal Connections dba Permaswage Engineering R&D Laboratory** to perform the following tests:

Accreditation granted through: **September 13, 2018**

### Testing - Mechanical

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Joint Tensile Strength	To 120 000 lb	AS2094 AS18280	Tube-Fitting Joints	
Hydrostatic Burst Pressure	(Up to 100 000) psig	AS2094	Tube-Fitting Joints	Ambient & High Temperatures
Hydraulic Proof Pressure	(Up to 100 000) psig	AS2094	Tube-Fitting Joints	Ambient Temperatures
Flexure Fatigue Test		ARP1185 AS18280	Tube-Fitting Joints	Ambient & High Temperatures
Pressure Impulse Test	(Up to 25 000) psig	AS603 AS4265	Tube-Fitting Joints	Ambient & High Temperatures
Pneumatic (Gaseous) Leak Test	(Up to 6 000) psig	AS2094	Tube-Fitting Joints	Ambient Temperature
Torsion (Torque) Test	(Up to 400) lb·ft	AS2094 ASTM F1387	Tube-Fitting Joints	Ambient Temperatures



<b>Technology</b>	<b>Range, when necessary</b>	<b>Methods Used</b>	<b>Product Types</b>	<b>Remarks</b>
Repeated Assembly (Reuse) Test		AS2094	Tube-Fitting Joints	Ambient Temperatures
Thermal Shock Test	(Up to 8 000) psig	ARP899/Customer Requirement	Tube-Fitting Joints	At Temperatures between (-65 to 275) °F
Salt Spray		ASTM B117	Tube-Fitting Joints	
Electrical Bonding Test		AS2094	Tube-Fitting Joints	

Notes:

- 1) This laboratory offers internal and commercial testing service.

Approved by: \_\_\_\_\_

R. Douglas Leonard  
Chief Technical Officer

Date: October 28, 2016

Re-Issued: 9/11/15

Revised: 10/28/16