#### Schedule to

# CERTIFICATE OF ACCREDITATION





**Materials and Testing Laboratories Ltd** 

**Client Number 3** 

10 Patrick Street, Onehunga, Auckland, 1061

Telephone 09 579-0262 www.mtlabs.co.nz

### **Authorised Representative**

Mr Guillaume Gosse

Director

## **Programme**

Mechanical Testing Laboratory

Accreditation Number 7 Initial Accreditation Date 23 April 1975

## **Conformance Standard**

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

## **Laboratory Services Summary**

4.69	Plastic and Plastic Products
4.75	Welder Qualification Tests
4.76	Metals and Metal Products
4.81	Non Destructive Tests by Radiography
4.82	Non Destructive Tests by Ultrasonics
4.83	Non Destructive Tests by Visual Inspection
4.84	Non Destructive Tests by Dye Penetrant Methods
4.85	Non Destructive Tests by Magnetic Particle methods
4.86	Non Destructive Tests by Eddy Current
4.87	Non Destructive Tests by Specialised Techniques

### **Approved Signatories**

Mr Driekus Barnard 4.69, 4.75, 4.76, 4.81, 4.83 Mr Steve Burnard 4.82, 4.83, 4.84, 4.85, 4.87

Mr Jacques Labuschagne 4.81, 4.82, 4.83, 4.84, 4.85 (yoke only), 4.87

Mr Dan Lee 4.69, 4.76 (e)

Mr Alan McKenna 4.82, 4.83, 4.84, 4.85, 4.86

Mr Miguel Luis Siasoco 4.75, 4.76 Mr Willem Viljoen 4.75, 4.76 (c)(g)

Mr Zhong Qi (Michael) Wu 4.69

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### 4.69 Plastic and Plastic Products

(a) Tensile tests

ISO 13953-2001 Tensile strength and failure mode of butt-fused PE joints

ISO 13954:1997 Peel decohesion test for polyethylene (PE) electrofusion assemblies

### 4.75 Welder Qualification Tests

Visual, Bend, Break & Macro Examination tests in accordance with the standards such as:

AS 1554

AS 1665

AS 2205

AS 3978

ASME IX

**AS/NZS 2980** 

**BS EN 287** 

BS EN ISO 15614-1

BS EN ISO 15614-2

BS EN ISO 9606-1

BS EN ISO 9606-2

ISO 5173

ISO 9017

ISO 17637

ISO 17639

#### 4.76 Metals and Metal Products

Tests in accordance with the standards such as:

(a) Tension tests in accordance with the following standards in the load range 0.12 kN to 500 kN

AS 1391

AS 2205.2

**ASTM E8** 

BS EN 10002.1

BS EN ISO 6892-1

ISO 15630-1:2019 Clause 5 Tensile test at room temperature

ISO 15630-2:2019 Clause 5 Tensile test ISO 15630-2:2019 Clause 7.1 Shear test

Testing methods as defined by the following standards and, with AS/NZS 4671, as modified by

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Verification Method B1/VM1 Clause 14

Welded Fabric ISO 15630-2:2010 Clause 5.3

Clause 7 Weld Shear Test

Bend tests in accordance with the following standards (c)

AS 2205.3 BS EN 1639

(e) Hardness tests in accordance with the following standards

Vickers hardness tests

AS 1817

**BS EN ISO 6507** 

Rockwell hardness tests

AS 2205.6.1 BS EN 10109

BS EN ISO 6508-1

(f) Impact tests in accordance with the following standards

Charpy impact tests at temperatures between -80 °C and Ambient

AS 1544.2 AS 2205.7.1

**BS EN ISO 148-1** 

Weld tests (Tensile, Visual, Bend, Break & Macro Examination tests) in accordance with (g) the following standards

AS 1554

AS 2205.4

AS 2205.5

ASME VIII

**ASME IX** 

ASTM A370

ASTM E190

BS EN 1320

**BS EN 3451** Aluminium BS EN 4206 Copper

**BS EN ISO 15614** 

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	BS EN	N ISO 17639				
	(h)	Other tests in accordance with the following	ng standards			
	BS EN	Steel wire and wire produced Steel wire and wire produced General test methods	ducts			
4.81	Non	Destructive Tests by Radiography				
	(a) (i)	Radiographic examination of metals Single wall or rolled products - thickness measurements - corrosion pitting	Al, Cu, Fe, SS			
	(ii)	Welded Joints	Al, Cu, Fe, SS			
	(iii)	Castings	Al, Cu, Fe, SS			
	(iv)	Forgings	Al, Cu, Fe, SS			
4.82	Non Destructive Tests by Ultrasonics					
	(a) (i) (ii) (iii) (iv)	Ultrasonic examination of metals Single wall or rolled product Welded joints Castings Forgings	Al, Cu, Fe, SS Al, Cu, Fe, SS Al, Cu, Fe, SS Al, Cu, Fe, SS			
4.83	Non Destructive Tests by Visual Inspection					
	(a) (i) (ii) (iii) (iv)	Visual inspection of metals Flat or rolled product Welded joints Castings Forgings	AI, Cu, Fe, SS AI, Fe, SS AI, Cu, Fe, SS AI, Cu, Fe, SS			
4.84	Non Destructive Tests by Dye Penetrant Methods					
	Penetrant Testing in accordance with standards such as:					
	(i)	Visible dye - Water washable - Solvent removable method	AI, Cu, Fe, Ni, Mg, Zn, SS AI, Cu, Fe, Ni, Mg, Zn, SS			
	(ii)	Fluorescent dye - Water washable - Solvent removable method	Al, Cu, Fe, Ni, Mg, Zn, SS			

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Amps AC/DC 3000A

Amps AC/DC 2000A

Magnetic Particle Testing in accordance with standards such as:

(i) Magnetic flow method

Welded joints

Forgings

Castings

Machined parts

(ii) Current flow method

Welded joints

Forgings

Castings

Machined parts

(iii) Coil method

Welded joints

Forgings

Castings

Machined parts

4.86 Non Destructive Tests by Eddy Current

(a) Surface flaw detection Al, Cu, Fe, Ni, Mg, Zn

(b) Metallic Coating thickness measurement Al, Cu, Fe, Ni, Mg, Zn

(c) Sorting of materials and components Al, Cu, Fe, Ni, Mg, Zn (e) Weld testing Al, Cu, Fe, Ni, Mg, Zn

4.87 Non Destructive Tests by Specialised Techniques

(d) Phased Array

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