



National Association of Testing Authorities, Australia

SCOPE OF ACCREDITATION

Sinclair X-Ray Inspection Services --IRISNDT

VICTORIAN FACILITY

| Accreditation Number: 15535 | Site Number: 16500 |

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Availability: Services available to external clients

Note: Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

Grey text appearing in a SoA is additional freetext providing further refinement or information on the data in the preceding line entry.

ISO/IEC 17025 (2017)**Infrastructure and Asset Integrity**

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Evaluation of high voltage/power equipment and components - Performance	Insulator and conductor fittings; Insulators;	Mechanical strength		AS 1154 Part 1	
Evaluation of load generating lifting appliances	Building lifts	Breaking load; Proof load;	Not applicable	AS 4991	5 to 1000 kN for fabricated lifting devices only, including onsite testing
Evaluation of load handling, rigging and tensioning systems	Lifting clutches for concrete elements	Proof load		AS 3850.1 clause 2.6	5 to 1000 kN
	Anchors and anchor plate assemblies; C-hooks;	Breaking load; Proof load;	Not applicable	AS 3777 and Sinclair Procedure SP011	5 to 1000 kN
	Cargo	Proof load	Not applicable	Sinclair Procedure	5 to 1000 kN tests for



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	barriers/restraint systems			SP012	twist locks for cargo containers only
	Shackles	Breaking load; Proof load;	Not applicable	AS 2319, AS 2741	5 to 1000 kN
Evaluation of mechanical performance of pressure plant, pipelines and equipment	Piping	Hydrostatic pressure	Not applicable	AS 4041 Section 6.7 and ASME B31.3 Section 345 on exposed items to AS/NZS 2885.5 Section 4 (excluding where temperature measurement is required)	up to 67 MPa, including on-site tests, up to 67 MPa on exposed items
	Pressure vessels; Valves;	Hydrostatic pressure	Not applicable	AS 1210 Section 5.10, AS 4037 Section 17	up to 67 MPa

ISO/IEC 17025 (2017) Manufactured Goods

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Evaluation of products for infants and children	Prams and strollers	Durability; Efficiency; Hazardous edges; Head barrier and foot opening probe evaluation; Projections and gaps; Removability of projections; Security; Small parts; Stability overload;	Not applicable	AS/NZS 2088 Appendices A, F, I, J, L, M, N, O, P, R, S, T, U, V and W; and Consumer Protection Notice 8 of 2007	
Material performance evaluation of metal products	Reinforcing bar and steel prestressing materials for concrete	Bending properties; Tensile properties;	Longitudinal bend; Longitudinal guided bend; Longitudinal tensile; Re-bend;	AS/NZS 4671 clauses 7.22 and 7.23	0.5 to 500 kN
	Fixtures and components	Tensile properties	Not applicable	In house method SP028	1 to 1000 kN
	Tubing/piping	Bending properties; Flattening properties; Shear strength;	Not applicable	ASTM A450	



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	Threaded fasteners, bolts and nuts	Breaking load	Not applicable	AS 4291.1 (ISO 898-1), Clauses 9.1, 9.2, 9.4 and ASTM F606 Clause 3.5.1	0.2 to 1000 kN
		Stripping	Not applicable	AS 4291.2 (ISO 898-2 Clause 9.1)	0.2 to 1000 kN
		Proof load	Not applicable	AS 4291.1 (ISO 898-1), Clause 9.6 and ASTM F606 Clause 3.2.3	0.2 to 1000 kN
	Welded test specimens	Bending properties	Longitudinal guided bend; Tongue bend; Transverse free bend; Transverse guided bend; Transverse joggle-butt wrap around bend;	AS 2505.3.1, AS 2205.3.2, AS 2205.3.3 and ASME IX Section QW160	
		Fillet-break fracture	Macroscopic examination; Visual examination;	AS 2205.4.2 and ASME IX, Section QW180, QW181 and QW182	
		Nick-break fracture	Macroscopic examination; Visual examination;	AS 2205.4.1	
		Macroscopic examination	Macroscopic examination	2205.5.1 and ASME IX, Section QW183 and QW184	
	Prepared metallic test specimens	Compression	Not applicable		0.2 to 1000 kN
	Prepared metallic test specimens; Welded test specimens;	Tensile properties	All-weld-metal tensile; Axial tensile; Longitudinal tensile; Tensile tests with control of strain rate, including yield stress and proof stress; Transverse butt tensile; Transverse joggle-butt	AS 1391; ASTM A370; ASME IX, Section QW153	0.5 to 500 kN



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			tensile; Transverse tensile;		
		Hardness	Brinell	AS 1816.1; ASTM E10;	9.8 to 490 N and 2.45 to 29.4 kN
		Impact resistance	Charpy - Assessment of fracture appearance; Charpy - Lateral expansion; Charpy V-notch - Impact value;	AS 1544.2; ASTM A370; ASTM E23; ASME IX, Section QW171	- 196°C to 30°C
		Hardness	Rockwell - Scale B; Rockwell - Scale C;	AS 1815.1; ASTM E18;	B and C scales
		Hardness	Vickers	AS 1817.1; ASTM E92	9.8 to 490 N
Mechanical performance evaluation of ladders, racks, scaffolds and supports	Portable ramps for vehicles; Portable trolley jacks; Portable vehicle jacks; Vehicle support stands;	Deflection; Proof load;	Not applicable	AS 2538, AS 2615, AS/NZS 2693 and AS 2640,	Jacks and trolley jacks above 40000 kg
	Ladders	Bending properties; Cantilever; Deflection; Dynamic drop; Fittings/foot distortion; Permanent set; Shear; Stability; Static foot friction; Strength; Sway; Torque;	Not applicable	AS 1892.1	
Mechanical performance evaluation of vehicle safety	Tow bars, tow balls and safety chain connections	Dynamic load; Static load;	Not applicable	AS 4177.2 Appendix A and AS 4177.3 Appendix A	
	Pedal bicycles	Safety requirements appraisal	Not applicable	AS/NZS 1927 (1998) Section 3 (excluding assessment of lights and reflectors) and	



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Appendices D, E,
F, G

ISO/IEC 17025 (2017) Materials

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Metallic corrosion evaluation	Copper and copper alloys	Dezincification resistance	Classical	AS 2345	
	Austenitic, duplex and nickel-chromium alloys	Detrimental intermetallic phase	Ferric chloride corrosion test	ASTM A923 Method C	
		Intergranular corrosion resistance	Acidified copper sulfate exposure - Mony-Penny-Strauss	AS 2038 Section 7; ASTM A262 (including welds to ASTM A262 Practice E);	
		Stress corrosion resistance	Mercurious nitrate	AS 2136	
		Pitting corrosion resistance	Ferric chloride pitting	ASTM G48 Method A	
	Austenitic, duplex and nickel-chromium alloys; Ferrous materials;	Detrimental intermetallic phase	Sodium hydroxide etch test	ASTM A923 Method A	
	Chemical corrosion treatment materials; Plating;	Coating thickness; Spot appraisal for the presence of a chromate conversion coating;	Microscopic examination	AS 2331.1.1	
		Coating mass; Coating thickness;		AS 1789, ASTM A90 AS 2331.2.1	
		Coating thickness	Not applicable	AS 2331.1.1	
	Metallographic evaluation of metals and alloys	Nickel and nickel alloys; Titanium and titanium alloys;	Grain size	Not applicable	AS 1733
Aluminium and aluminium alloys		Grain size	Not applicable	AS 1733 and ASTM E112	



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	Copper and copper alloys	Grain size	Not applicable	AS 1733 and ASTM E112	
		Phase identification and proportion		ASTM E562	
	Austenitic, duplex and nickel-chromium alloys	Graphite type and distribution in cast irons	Not applicable	AS 1830 and AS 1831	
		Case depth and depth of decarburisation	Hardness traverse; Macroscopic examination; Microhardness; Microscopic examination;	AS 1982	
		Non-metallic inclusion content	Macroscopic examination; Microscopic examination;	ISO 4967	
		Grain size	Not applicable	AS 1733 and ASTM E112	
	Austenitic, duplex and nickel-chromium alloys; Ferrous materials;	Degree of spheroidisation	Not applicable	ASTM E1181	
	Ferrous materials	Ferrite count	Point count	ASTM A923 Method A	Stainless steels

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