



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.
Unit 17, 15 Suscatand Street
Rocklea 4106, Queensland, Australia
Richard Unwin Phone: 617-3274-0737

THERMAL

Valid To: March 31, 2026

Certificate Number: 2975.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Test:

Test Method(s):

Solar Technologies:

Performance Testing of Solar Collectors

Efficiency

Effective Thermal Capacity

Time Constant

Pressure Drop

AS/NZS 2535.1

Clause 9

Clause 10.2

Clauses 10.3 and 10.4

Clause 12

Qualification Tests of Solar Panels

Glass Breakage Test

Stagnation Test

(Including Pre- and Post-Stagnation Thermal
Performance Test)

Hail Resistance Test

Water Ingress Test

Protection Against Freezing Test (Method B)
Without Clear Sky Simulator (Level 1 or Level 2)

Structural Strength Test

No Load Performance Test

AS/NZS 2712

Clause 4.4.3 Appendix C, Clause 5

Clause 4.5

Clause 4.6

Clause 4.7

Clause 4.8

Clause 4.9

Appendix F

Heat Loss Test (Storage Tanks and Heat Pumps)

AS/NZS 4692.1

Performance Testing of Heat Pumps

AS/NZS 5125

Test Methods for Solar Collectors

SRCC OG-100; ICC 901/SRCC OG 100

Test Methods for Solar Concentrating Collectors

SRCC OG-600

Test Methods for Solar Collectors

ISO 9806-1:1994; ISO 9806-2:1995; ISO9806-
3:1995; ISO 9806:2013; ISO 9806:2017; EN
ISO 9806:2014

Test:

Test Method(s):

Solar Technologies cont'd:

Thermal Solar Systems and Components: Solar Collectors – 1 General Requirements

EN 12975-1

Thermal Solar Systems and Components: Solar Collectors – 2 Test Methods

EN 12975-2

Thermal Solar Systems and Components: Factory Made Systems – 1 General Requirements

EN 12976-1

Thermal Solar Systems and Components: Factory Made Systems – 2 Test Methods

EN 12976-2; ISO 9459-2, ISO 9459-5

Fire Hazard Testing:

Needle Flame Test

AS/NZS 60695.11.5

Guidance for Fire Hazard Testing

AS/NZS 60695.1.1

Glow Wire Based Test Method

AS/NZS 60695.2.10; AS/NZS 60695.2.11; AS/NZS 60695.2.12; AS/NZS 60695.2.13

Electrical Appliances:

Ball Pressure Test

AS/NZS 60695.10.2

Household and Similar Electrical Appliances IEC and EN Equivalent Standards

AS/NZS 60335.1; IEC 60335-1; EN 60335-1

Vacuum Cleaners

Part 2.2

Electric Irons

Part 2.3

Dishwashers

Part 2.5

Ranges, Ovens and Hoods

Part 2.6

Deep Fryers, Frying Pans and Similar Appliances

Part 2.13

Kitchen Machines

Part 2.14

Household and Similar Electrical Appliances IEC and EN Equivalent Standards cont'd

Appliances for Heating Liquids

Part 2.15

Storage Water Heaters

Part 2.21

Appliances for Skin and Hair Care

Part 2.23

Refrigerating Appliances

Part 2.24

Battery Chargers

Part 2.29

Room Heaters

Part 2.30

Range Hoods

Part 2.31

Massage Appliances

Part 2.32

Instantaneous Water Heaters

Part 2.35

Commercial Ranges, Hobs, and Ovens

Part 2.36

Commercial Electric Doughnut Fryers and Deep Fat Fryers

Part 2.37

Test:

Test Method(s):

Electrical Appliances cont'd:

Commercial Electric Griddles and Griddle Grills	Part 2.38
Heat Pumps, Air Conditioners and Dehumidifiers	Part 2.40
Liquid Pumps (Temperature Not Exceeding 35° C)	Part 2.41
Commercial Ovens and Steam Cookers	Part 2.42
Clothes Dryers and Towel Rails	Part 2.43
Glue Guns	Part 2.45
Commercial Boiling pans	Part 2.47
Commercial Grillers and Toasters	Part 2.48
Commercial Warmers	Part 2.49
Commercial Bain Maries	Part 2.50
Circulation Pumps	Part 2.51
Whirlpool Baths and Spas	Part 2.60
Wet/Dry Vacuum Cleaners	Part 2.69
Fixed Immersion Heaters	Part 2.73
Commercial Dispensing Appliances and Vending Machines	Part 2.75
Outdoor Barbecues	Part 2.78
High Pressure Cleaners	Part 2.79
Toilets	Part 2.84
Commercial Refrigerating Appliances	Part 2.89
Vertical Garage Doors	Part 2.95
Roller Shutters	Part 2.97
Humidifiers	Part 2.98
Gas, Oil and Solid Fuel Burnings	Part 2.102
Electrical Equipment for Spa and Swimming Pools	AS/NZS 3136
Approval and Test Specification – General Requirements for Electrical Equipment	AS/NZS 3100
Safety of Household and Similar Electrical Appliances	AS/NZS 3350
Safety of Power Transformers, power supplies Reactors and Similar Products	AS/NZS 61558.1, 61558.2.4, 61558.2.6, 61558.2.7, 61558.2.16, 60950.1
<u>Gas Appliances:</u>	
General Requirements	AS 5263.0
Domestic Gas Cooking	AS/NZS 5263.1.1; AS 4551
Gas Fired Water Heaters	AS/NZS 5263.1.2; AS4552
Gas Space Heating Appliances	AS/NZS 5263.1.3
Domestic Gas Refrigerators	AS 4555

Test:

Test Method(s):

Gas Appliances cont'd:

Domestic Gas Barbecues	AS/NZS 5263.1.7
Gas Dryers	AS/NZS 5263.1.9
Commercial Gas Equipment	AS 3814; AS 4563

Plumbing Tests:

Water Closets (WCs) Part 1Pans	AS 1172.1
Water Closets (WCs) Part 2 Flushing Devices and Cistern Inlet Outlet Valves	AS 1172.2
Water Heaters and HW Storage Tanks	AS 3498
Showers	AS 3662
Metallic Fittings	AS 3688
Tapware	AS 3718 (excluding AS/NZS 4020)
Access Covers and Grates	AS 3996 (excluding Slip Resistance and UV Ray Resistance)
Metal Banded Flexible Couplings	AS/NZS 4327
Solenoid valves	WMTS-030 (excluding AS/NZS 4020)
Flow controllers – For controlling flows in cold or heated water systems	WMTS-037.1 (excluding AS/NZS 4020)
Waste pipe connection outlets and gratings, separate or integral	WMTS-040 (excluding AS/NZS 4020)
Bidet douche seats	WMTS-051 (excluding AS/NZS 4020)
Metallic-bodied inlet pressure control valves greater than DN 50	WMTS-052 (excluding AS/NZS 4020)
Plastic fittings – Connectors with flexible intermediate joints for drainage and sewerage applications	WMTS-055 (excluding AS/NZS 4020)
Hydraulically operated automatic control valves for waterworks purposes	AS 5081

Test:

Plumbing Tests cont'd:

Appliances (low hazard rating)
Appliances (miscellaneous)
Appliances – Beverage dispensers and icemakers

Water closet suite with integral odor control device
Heated water systems – Thermostatic circulation valve
Pressure Attenuator
Rainwater tank connection devices
Rainwater tank connection valve
Heated Water System – Leak Protection Device
Flood stop safety valve
Rehabilitation of existing Non Pressure Pipelines by the use of Cured In Place Pipe (CIPP)
Bathroom appliances
Flushing sinks

Test Method(s):

WMTS-101 (excluding AS/NZS 4020)
WMTS-104 (excluding AS/NZS 4020)
WMTS-105 (excluding AS/NZS 4020)

WMTS-425 (excluding AS/NZS 4020)
WMTS-453 (excluding AS/NZS 4020)
WMTS-463
WMTS-466 (excluding AS/NZS 4020)
WMTS-467 (excluding AS/NZS 4020)
WMTS-476 (excluding AS/NZS 4020)
WMTS-479 (excluding AS/NZS 4020)
WMTS-518 (excluding AS/NZS 4020)
WMTS-524 (excluding AS/NZS 4020)
WMTS-526 (excluding AS/NZS 4020)



Accredited Laboratory

A2LA has accredited

AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.

Rocklea 4106, Queensland, Australia

for technical competence in the field of

Thermal Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. 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).



Presented this 22nd day of May 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2975.01
Valid to March 31, 2026
Revised April 14, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Thermal Scope of Accreditation.