



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.

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THERMAL

Valid To: July 31, 2018

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:

<u>Test</u>	<u>Test Method(s)</u>
<u>Solar Technologies</u>	
Performance Testing of Solar Collectors	AS/NZS 2535.1
Efficiency	Clause 9
Effective Thermal Capacity	Clause 10.2
Time Constant	Clauses 10.3 and 10.4
Pressure Drop	Clause 12
Qualification Tests of Solar Panels	AS/NZS 2712
Glass Breakage Test	Clause 4.4.3 Appendix C, Clause 5
Stagnation Test	Clause 4.5
(Including Pre- and Post-Stagnation Thermal Performance Test)	
Hail Resistance Test	Clause 4.6
Water Ingress Test	Clause 4.7
Protection Against Freezing Test (Method B)	Clause 4.8
Without Clear Sky Simulator (Level 1 or Level 2)	
Structural Strength Test	Clause 4.9
No Load Performance Test	Appendix F
Heat Loss Test (Storage Tanks and Heat Pumps)	AS/NZS 4692.1
Performance Testing of Heat Pumps	AS/NZS 5125
Trynsis Simulation	AS/NZS 4234
Solar Domestic Water Heating Component Test and Analysis Protocol	SRCC TM1 (<i>excluding sections 11.0 and 11.1</i>)

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Test

Test Method(s)

Solar Technologies (cont'd)

Performance Testing of Solar Collectors	ASHRAE-93; ASHRAE-96
Test Methods for Solar Collectors	SRCC OG-100; CSA F378-1987 (<i>excluding sections 6.1.4.2, 6.1.5, 6.1.6, 6.1.9 and 6.1.11</i>)
Solar Domestic Hot Water Systems and Components	SRCC OG-300; CSA F379 Series-09
Test Methods for Solar Concentrating Collectors	SRCC OG-600
Test Methods for Solar Collectors	ISO 9806-1:1994 ¹ ; ISO 9806-2:1995 ¹ ; ISO 9806-3:1995 ¹ ; ISO 9806:2013; EN ISO 9806:2014
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
Solar Heating – Indoor Testing	ISO 9459-1
Performance Testing of Solar Collectors and Water Heater Tanks	SANS-151
Thermostats for Electric Water Heaters	SANS-181; SANS-514
Domestic Solar Water Heaters	SANS-1307; SANS-6210
Solar Thermal Performance Testing, Systems	SANS-6211.1; SANS-6211.2

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



Test**Test Method(s)****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 (4 th Edition); EN 60335-1 (4 th Edition)
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
Appliances for Heating Liquids	Part 2.15
Storage Water Heaters	Part 2.21
Appliances for Skin and Hair Care	Part 2.23
Room Heaters	Part 2.30
Range Hoods	Part 2.31
Massage Appliances	Part 2.32
Instantaneous Water Heaters	Part 2.35
Commercial Electric Doughnut Fryers and Deep Fat Fryers	Part 2.37
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
Clothes Dryers and Towel Rails	Part 2.43
Circulation Pumps	Part 2.51
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
Vertical Garage Doors	Part 2.95
Roller Shutters	Part 2.97
Humidifiers	Part 2.98
Gas, Oil and Solid Fuel Burnings (Selected Clauses for Australia Differences Only)	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

Test

Test Method(s)

Gas Appliances

General Requirements	AS 5263.0
Domestic Gas Cooking	AS/NZS 5263.1.1
Gas Fired Water Heaters	AS/NZS 5263.1.2
Gas Space Heating Appliances	AS/NZS 5263.1.3
Domestic Gas Refrigerators	AS 4555
Domestic Gas Barbecues	AS/NZS 5263.1.7
Commercial Gas Equipment	AS 3814; AS 4563
LP Gas – Portable and Mobile Appliances	AS 2658
Manual Shut Off Gas Valves	AS 4617

¹ This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.





Accredited Laboratory

A2LA has accredited

AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.

Rocklea, Queensland, Australia

for technical competence in the field of

Thermal Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009).



Presented this 21st day of April 2017.

A handwritten signature in black ink, written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 2975.01
Valid to May 31, 2018
Revised June 1, 2018

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