



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.

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THERMAL

Valid To: May 31, 2024

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

Performance Testing of Solar Collectors

ASHRAE-93; ASHRAE-96

Test Methods for Solar Collectors

SRCC OG-100; ICC 901/SRCC OG 100; CSA
F378-1987 (*excluding sections 6.1.4.2, 6.1.5,
6.1.6, 6.1.9 and 6.1.11*)

Solar Domestic Hot Water Systems and Components

SRCC OG-300; ICC 900/SRCC OG-300-
2015; CSA F379 Series-09

Test Methods for Solar Concentrating Collectors

SRCC OG-600

Test:**Test Method(s):****Solar Technologies cont'd:**

Test Methods for Solar Collectors

ISO 9806-1:1994¹; ISO 9806-2:1995¹;
ISO9806-3:1995¹; ISO 9806:2013; ISO
9806:2017; EN ISO 9806:2014Thermal 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**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

60335-2-2

Electric Irons

60335-2-3

Dishwashers

60335-2-5

Ranges, Ovens and Hoods

60335-2-6

Deep Fryers, Frying Pans and Similar

60335-2-13

Appliances

60335-2-14

Kitchen Machines

60335-2-14

Test:**Test Method(s):****Electrical Appliances cont'd:**

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

| | |
|--|---|
| Appliances for Heating Liquids | 60335-2-15 |
| Storage Water Heaters | 60335-2-21 |
| Appliances for Skin and Hair Care | 60335-2-23 |
| Refrigerating Appliances | 60335-2-24 |
| Room Heaters | 60335-2-30 |
| Range Hoods | 60335-2-31 |
| Massage Appliances | 60335-2-32 |
| Instantaneous Water Heaters | 60335-2-35 |
| Commercial Electric Doughnut Fryers and Deep Fat Fryers | 60335-2-37 |
| Commercial Electric Griddles and Griddle Grills | 60335-2-38 |
| Heat Pumps, Air Conditioners and Dehumidifiers | 60335-2-40 |
| Liquid Pumps (Temperature Not Exceeding 35° C) | 60335-2-41 |
| Clothes Dryers and Towel Rails | 60335-2-43 |
| Glue Guns | 60335-2-45 |
| Circulation Pumps | 60335-2-51 |
| Whirlpool Baths and Spas | 60335-2-60 |
| Wet/Dry Vacuum Cleaners | 60335-2-69 |
| Fixed Immersion Heaters | 60335-2-73 |
| Commercial Dispensing Appliances and Vending Machines | 60335-2-75 |
| Outdoor Barbecues | 60335-2-78 |
| High Pressure Cleaners | 60335-2-79 |
| Toilets | 60335-2-84 |
| Commercial Refrigerating Appliances | 60335-2-89 |
| Vertical Garage Doors | 60335-2-95 |
| Roller Shutters | 60335-2-97 |
| Humidifiers | 60335-2-98 |
| Gas, Oil and Solid Fuel Burnings | 60335-2-102 |
| 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 |

Test:

Test Method(s):

Gas Appliances cont'd:

| | |
|------------------------------|--------------------------|
| 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 |
| Domestic Gas Barbecues | AS/NZS 5263.1.7 |
| Commercial Gas Equipment | AS 3814; AS 4563 |
| 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 withdraw.



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 9th day of May 2022.

A blue ink signature of the Vice President, Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2975.01
Valid to May 31, 2024
Revised April 15, 2024

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