



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.

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THERMAL

Valid To: March 31, 20xx

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 9806:2014

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

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

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 of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2975.01
Valid to March 31, 2024

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