

CERTIFICATE OF ACCREDITATION



Spectrum Laboratories Limited

Client Number 1044

PO Box 204252, Highbrook, Auckland, 2161
9B Lady Ruby Drive, East Tamaki, Auckland, 2013

Telephone 09 271-1616

www.spectrumlab.co.nz

Authorised Representative

Mr Philip Sparrow
Technical Manager

Programme

Electrical Testing Laboratory

Accreditation Number 374

Initial Accreditation Date 6 July 1988

Conformance Standard

ISO/IEC 17025:2017


General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

3.60 Environmental Tests
3.80 Approval Tests on Electrical Appliances

Key Technical Personnel

Mr Jose Beirut 3.80
Mr Prodencio Jr. Ladrangan 3.60, 3.80

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3.60 Environmental Tests

(d) Impact tests

BS EN 60068-2-75 Environmental testing. Test methods. Test Eh. Hammer tests

3.80 Approval Tests on Electrical Appliances

This laboratory will need to sub-contract the following tests where relevant:

Arc-tracking resistance, Izod impact test, EMC emission and EMC immunity, Impulse test, Vibration and Shock tests, Flammable Refrigerant tests, Photometric tests, UV tests and electronic controls using software for safety purposes to Annex R of IEC 60335 Part 1 and Annex H of IEC 60730 Part 1 (and equivalent EN AS/NZS standards).

Marking, instructions and AS/NZS National Variations can be tested for any National or International test standards.

Australian Standards

AS 60529 Degrees of protection provided by enclosures for electrical equipment (IP Code)

AS 60598.2.4 Portable general purpose luminaires (clauses 7, 25 & AS/NZS National variations only)

Australian / New Zealand Standards

AS/NZS 3100 General requirements for electrical equipment

AS/NZS 3105 Electrical portable outlet devices

AS/NZS 3112 Plugs and sockets

AS/NZS 3117 Bayonet lampholders

AS/NZS 3119 Lampholder adaptors

AS/NZS 3120 Cord extension sockets

AS/NZS 3122 Socket – outlet adaptors

AS/NZS 3127 Approval and test specification – Cord-line switches

AS/NZS 3133 Air break switches

AS/NZS 60335.1 Safety of household and similar electrical appliances – General requirements

AS/NZS 60335.2.2 Vacuum cleaners and water suction cleaning appliances

AS/NZS 60335.2.3 Electric irons (clauses 7, 25 & AS/NZS National variations only)

AS/NZS 60335.2.9 Grills, toasters and similar portable cooking appliances (clauses 7, 25 & AS/NZS National variations only)

AS/NZS 60335.2.10 Floor treatment machines and wet scrubbing machines (clauses 7, 25 & AS/NZS National variations only)

AS/NZS 60335.2.14 Kitchen machines

AS/NZS 60335.2.15 Appliances for heating liquids

AS/NZS 60335.2.17 Blankets, pads and similar flexible heating appliances

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AS/NZS 60335.2.21	Storage water heaters
AS/NZS 60335.2.23	Appliances for skin and hair care (clauses 7, 25 & AS/NZS National variations only)
AS/NZS 60335.2.29	Battery chargers
AS/NZS 60335.2.30	Room heaters
AS/NZS 60335.2.32	Massage appliances (clauses 7, 25 & AS/NZS National variations only)
AS/NZS 60335.2.41	Pumps (clauses 7, 25 & AS/NZS National variations only)
AS/NZS 60335.2.43	Clothes dryers and towel rails (clauses 7, 25 & AS/NZS National variations only)
AS/NZS 60335.2.45	Portable heating tools and similar appliances (clauses 7, 25 & AS/NZS National variations only)
AS/NZS 60335.2.52	Oral hygiene appliances
AS/NZS 60335.2.54	Surface cleaning appliances for household use employing liquids or steam (clauses 7, 25 & AS/NZS National variations only)
AS/NZS 60335.2.60	Whirlpool baths and whirlpool spas
AS/NZS 60335.2.69	Wet and dry vacuum cleaners, including power brush, for industrial and commercial use (Excluding clause 22.35 + need to sub contract clauses 21.102 to 21.106)
AS/NZS 60335.2.79	High pressure cleaners and steam cleaners (excluding clause 11 and oil/wood burning machines)
AS/NZS 60335.2.80	Electric fans
AS/NZS 60335.2.89	Commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor (excluding clause 22 test for flammable refrigerants)
AS/NZS 60335.2.102	Gas, oil and solid-fuel burning appliances with electrical connections (clauses 7, 25 & AS/NZS National variations only)
AS/NZS 60598.1	Luminaires – General requirements and tests (excluding clause 4.20)
AS/NZS 60598.2.1	Fixed general purpose luminaires
AS/NZS 60598.2.2	Recessed luminaires
AS/NZS 60598.2.3	Luminaires for road and street lighting
AS/NZS 60598.2.4	Portable general purpose luminaires
AS/NZS 60598.2.5	Floodlights
AS/NZS 60598.2.6	Luminaires with built-in transformers for filament lamps
AS/NZS 60598.2.7	Portable luminaires for garden use
AS/NZS 60598.2.8	Handlamp
AS/NZS 60598.2.10	Portable luminaires for children
AS/NZS 60598.2.12	Mains socket-outlet mounted nightlights
AS/NZS 60598.2.18	Luminaires for swimming pools and similar applications
AS/NZS 60598.2.20	Lighting chains
AS/NZS 60598.2.22	Emergency luminaires (excluding clause 22.17)
AS/NZS 60695.1	Fire hazard testing – Guidance for assessing the fire hazard of electrotechnical products
AS/NZS 60695.2	Fire test methods for solid insulating materials and non-metallic enclosures (Part 2.10-2.13) used in electrical equipment
AS/NZS 62368.1	Audio/video, information and communication technology equipment – Part 1: Safety requirements (clauses 7, 25 & AS/NZS National variations only)

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BS EN Standards

- BS EN 60335-1 Safety of household and similar electrical appliances – General requirements
- BS EN 60335-1 Safety of household and similar electrical appliances – General requirements
- BS EN 60335-2-2 Vacuum cleaners and water suction cleaning appliances
- BS EN 60335-2-3 Electric irons (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-9 Grills, toasters and similar portable cooking appliances (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-10 Floor treatment machines and wet scrubbing machines (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-14 Kitchen machines
- BS EN 60335-2-15 Appliances for heating liquids
- BS EN 60335-2-17 Blankets, pads and similar flexible heating appliances
- BS EN 60335-2-21 Storage water heaters
- BS EN 60335-2-23 Appliances for skin and hair care (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-29 Battery chargers
- BS EN 60335-2-30 Room heaters (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-32 Massage appliances (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-41 Pumps (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-43 Clothes dryers and towel rails (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-45 Portable heating tools and similar appliances (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-52 Oral hygiene appliances
- BS EN 60335-2-54 Surface cleaning appliances for household use employing liquids or steam (clauses 7, 25 & IEC National variations only)
- BS EN 60335-2-60 Whirlpool baths and whirlpool spas
- BS EN 60335-2-69 Wet and dry vacuum cleaners, including power brush, for commercial use (Excluding clause 22.35 + need to sub contract clauses 21.102 to 21.106)
- BS EN 60335-2-79 High pressure cleaners and steam cleaners (excluding clause 11 and oil/wood burning machines)
- BS EN 60335-2-80 Fans
- BS EN 60335-2-89 Commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor (excluding clause 22 test for flammable refrigerants)
- BS EN 60335-2-102 Gas, oil and solid-fuel burning appliances having electrical connections (clauses 7, 25 & IEC National variations only)
- BS EN 60529 Degrees of protection provided by enclosures (IP Code)
- BS EN 60598-1 Luminaires – General requirements and tests (excluding clause 4.20)
- BS EN 60598-2-1 Fixed general purpose luminaires
- BS EN 60598-2-2 Recessed luminaires
- BS EN 60598-2-3 Luminaires for road and street lighting
- BS EN 60598-2-4 Portable general purpose luminaires
- BS EN 60598-2-5 Floodlights
- BS EN 60598-2-6 Luminaires with built-in transformers for filament lamps
- BS EN 60598-2-7 Portable luminaires for garden use
- BS EN 60598-2-8 Handlamp
- BS EN 60598-2-10 Portable luminaires for children

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BS EN 60598-2-12	Mains socket-outlet mounted nightlights
BS EN 60598-2-18	Luminaires for swimming pools and similar applications
BS EN 60598-2-20	Lighting chains
BS EN 60598-2-22	Emergency luminaires (excluding clause 22.17)
BS EN 60695-1-1	Fire hazard testing – Guidance for assessing the fire hazard of electrotechnical products
BS EN 60695-2-10	Glow-wire apparatus and common test procedure
BS EN 60695-2-11	Glow-wire flammability test method for end products (GWEPT)
BS EN 60695-2-12	Glow-wire flammability index (GWFI) test method for materials
BS EN 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements
IEC Standards	
IEC 60335-1	Safety of household and similar electrical appliances – General requirements
IEC 60335-2-2	Vacuum cleaners and water suction cleaning appliances
IEC 60335-2-3	Electric irons (clauses 7, 25 & IEC National variations only)
IEC 60335-2-9	Grills, toasters and similar portable cooking appliances (clauses 7, 25 & IEC National variations only)
IEC 60335-2-10	Floor treatment machines and wet scrubbing machines (clauses 7, 25 & IEC National variations only)
IEC 60335-2-14	Kitchen machines
IEC 60335-2-15	Appliances for heating liquids
IEC 60335-2-17	Blankets, pads and similar flexible heating appliances
IEC 60335-2-21	Storage water heaters
IEC 60335-2-23	Appliances for skin and hair care (clauses 7, 25 & IEC National variations only)
IEC 60335-2-30	Room heaters
IEC 60335-2-32	Massage appliances (clauses 7, 25 & IEC National variations only)
IEC 60335-2-41	Pumps (clauses 7, 25 & IEC National variations only)
IEC 60335-2-43	Clothes dryers and towel rails (clauses 7, 25 & IEC National variations only)
IEC 60335-2-45	Portable heating tools and similar appliances (clauses 7, 25 & IEC National variations only)
IEC 60335-2-52	Oral hygiene appliances
IEC 60335-2-54	Surface cleaning appliances for household use employing liquids or steam (clauses 7, 25 & IEC National variations only)
IEC 60335-2-60	Whirlpool baths and whirlpool spas
IEC 60335-2-69	Wet and dry vacuum cleaners, including power brush, for commercial use (Excluding clause 22.35 + need to sub contract clauses 21.102 to 21.106)
IEC 60335-2-79	High pressure cleaners and steam cleaners (excluding clause 11 and oil/wood burning machines)
IEC 60335-2-80	Fans
IEC 60335-2-89	Commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor (excluding clause 22 test for flammable refrigerants)
IEC 60335-2-102	Gas, oil and solid-fuel burning appliances having electrical connections (clauses 7, 25 & IEC National variations only)
IEC 60529	Degrees of protection provided by enclosures (IP Code)

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IEC 60598-1	Luminaires – General requirements and tests
IEC 60598-2-1	Fixed general purpose luminaires
IEC 60598-2-2	Recessed luminaires
IEC 60598-2-3	Luminaires for road and street lighting
IEC 60598-2-4	Portable general purpose luminaires
IEC 60598-2-5	Floodlights
IEC 60598-2-6	Luminaires with built-in transformers for filament lamps
IEC 60598-2-7	Portable luminaires for garden use
IEC 60598-2-8	Handlamp
IEC 60598-2-10	Portable luminaires for children
IEC 60598-2-12	Mains socket-outlet mounted nightlights
IEC 60598-2-18	Luminaires for swimming pools and similar applications
IEC 60598-2-20	Lighting chains
IEC 60598-2-22	Emergency luminaires (excluding clause 22.17)
IEC 60695-1-1	Fire hazard testing – Guidance for assessing the fire hazard of electrotechnical products
IEC 60695-2-10	Glow-wire apparatus and common test procedure
IEC 60695-2-11	Glow-wire flammability test method for end products (GWEPT)
IEC 60695-2-12	Glow-wire flammability index (GWFI) test method for materials
IEC 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements

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