



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AUSTEST LABORATORIES
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ELECTRICAL

Valid To: November 30, 2013

Certificate Number: 2765.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Product Safety, EMC and Telecommunication tests ¹:

<u>Test</u>	<u>Test Method(s)</u>
<i>Product Safety</i>	AS/NZS 60950.1; IEC/EN 60950-1, 1 st and 2 nd Editions; AS/NZS 3100; AS/NZS 3105 (<i>excluding integral switches</i>); AS/NZS 3112 (<i>excluding integral switches</i>); AS/NZS 3122; AS/NZS 3136; AS/NZS 3140 (only clauses 8, 10, 14.2, 14.3, 14.4 & 15 to E27 Lampholder); AS/NZS 3197 (<i>excluding integral switches</i>); AS/NZS 60065 (<i>excluding clause 12.1.2, vibration test</i>); IEC/EN 60065 (<i>excluding clause 12.1.2, vibration test</i>); AS/NZS 60320.1 (<i>excluding 'Hot' and 'Very Hot' conditions</i>); AS/NZS 60598.2.1, .2.2, .2.4, 2.5, .2.6, .2.10, .2.20, the relevant tests of AS/NZS 60598.1, and the IEC and EN equivalent standards; AS/NZS 61558 .2.6, .2.7, the relevant tests of AS/NZS 61558.1, and the IEC and EN equivalent standards; AS/NZS 3350.1; IEC 60335-1, 3 rd Edition; EN 60335-1, 3 rd Edition; AS/NZS 60335.1; IEC 60335-1, 4 th Edition; EN 60335-1, 4 th Edition; IEC 60335-1 5 th Edition (<i>excluding clauses 22.16, cord reel test, and 22.32, oxygen bomb test</i>), and the associated part 2 series of the standards for the following equipment types: Part 2.2 Vacuum Cleaners and Water-Suction Cleaning Appliances (<i>excluding clause 21, mechanical strength</i>) Part 2.3 Electric Irons Part 2.5 Dishwasher (Annex ZZ only) Part 2.6 Ranges, Ovens & Hobs Part 2.7 Washing Machine (Annex ZZ only) Part 2.8 Shavers, hair clippers and similar appliances Part 2.9 Portable Cooking Appliances Part 2.11 Tumble dryers (Annex ZZ only) Part 2.12 Warming Plates and Similar Appliances Part 2.13 Deep Fat Fryers, Frying Pans and Similar Appliances

Test

Product Safety (Cont'd)

Test Method(s)

Part 2.14 Kitchen Machines
Part 2.15 Appliances for Heating Liquids
Part 2.21 Storage Water Heaters
Part 2.23 Appliances for Skin and Hair Care
Part 2.24 Refrigerators and Ice Makers
Part 2.29 Battery Chargers
Part 2.30 Room Heaters
Part 2.31 Range Hoods (*excluding clause 30, resistance of heat and fire [ISO 9772 test apparatus]*)
Part 2.32 Massage Appliances
Part 2.35 Instantaneous Water Heater
Part 2.40 Electrical Heat Pumps, Air-conditioners and Dehumidifiers
Part 2.41 Pumps
Part 2.43 Clothes Dryers and Towel Rails
Part 2.45 Portable Heating Tools and Similar Appliances
Part 2.54 Surface Cleaning Appliances (*excluding clauses 21.101 through 21.105, current-carrying hoses*)
Part 2.55 Aquariums and Garden Ponds
Part 2.59 Insect Killers
Part 2.73 Fixed Immersion Heaters
Part 2.74 Portable Immersion Heaters
Part 2.75 Commercial Dispensing Appliances and Vending Machines (*excluding Annex AA, aging test for elastomeric parts*)
Part 2.78 Outdoor Barbecues
Part 2.80 Fans
Part 2.82 Amusement Machines (*excluding clause 31, resistance of rusting*)
Part 2.84 Toilets
Part 2.85 Fabric Steamers
Part 2.89 Commercial Refrigerating Appliances (*excluding clauses 22.106 through 22.109, flammable refrigerants*)
Part 2.95 Drivers for Vertically Moving Garage Doors for Residential Use
Part 2.97 Drives for Rolling Shutters, Awnings, Blinds and Similar Equipment
Part 2.98 Humidifiers
Part 2.101 Vaporizers
Part 2.102 Gas, Oil and Solid-fuel Burning Appliances having Electrical Connections
AS/IEC/EN 60529;
AS/IEC/EN 60068.2.52, Salt Mist Test
IEC/EN 61347-1 (*except 18.2, PCB resistance to fire*)
AS/NZS 61347.1 and the associated part 2 series of the standards for the following lamp controlgear types:
Part 2.3 A.C. Supplied Electronic Ballasts for Fluorescent Lamps (*except Annex J, emergency lighting*)
Part 2.9 Ballasts for Discharge Lamps
Part 2.13 D.C. or A.C. Supplied Electronic Controlgear for LED Modules (*except Annex I.6.3.3, vibration test*)
AS 4777.2 and 4777.3

Test**Test Method(s)***Fire Hazard Testing*

IEC/EN/AS/NZS 60112 Proof and Comparative Tracking Indices of Solid Insulating Materials;
IEC/EN/AS/NZS 60695.11.5 Needle Flame Test;
IEC/EN/AS/NZS 60695.10.2 Ball Pressure Test;
IEC/EN/AS/NZS Standards for Glowing/Hot Wire Based Test Method:
60695.2.10 Glow-wire apparatus and common test procedure;
60695.2.11 Glow-wire flammability test method for end-products;
60695.2.12 Glow-wire flammability test method for materials;
60695.2.13 Glow-wire ignitability test method for materials

Performance (MEPS)

AS/NZS 4665;
AS/NZS 62087.1;
AS/NZS 62087.2.1;
AS/NZS 62087.2.2;
AS/NZS 62301

Electromagnetic Fields (EMF)

EN 62233

Telecommunications

AS/ACIF S002;
AS/CA S002;
AS/ACIF S003;
AS/CA S003.1;
AS/CA S003.2;
AS/CA S003.3;
AS/ACIF S004;
AS/ACIF S006;
AS/ACIF S008 (excluding underground conduit, surge suppression devices, optical fibre and coaxial cable, pits);
AS/CA S008 (excluding underground conduit, surge suppression devices, optical fibre and coaxial cable, pits);
AS/ACIF S031, TBR 003/A1;
AS/ACIF S038, TBR 004/A1;
AS/ACIF S040;
AS/ACIF S041;
AS/ACIF S041.1;
AS/ACIF S041.2;
AS/ACIF S041.3;
AS/ACIF S043.1;
AS/ACIF S043.2;
AS/ACIF S043.3

¹ This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratory (see page 4):

Test

Test Method(s)

EMC – Emissions

AS/NZS CISPR 11, CISPR 11, EN 55011;
AS/NZS CISPR 12, CISPR 12, EN 55012;
AS/NZS CISPR 13, CISPR 13, EN 55013 (*excluding broadcast
satellite receivers and the disturbance voltage at antenna terminals test
for other than 75 Ω coaxial equipment*);
AS/NZS CISPR 14.1, CISPR 14-1, EN 55014-1;
AS/NZS CISPR 15, CISPR 15, EN 55015;
AS/NZS CISPR 22, CISPR 22, EN 55022;
AS/NZS 4251.1 (*excepting measurements below 2 kHz*);
47 CFR, FCC Part 15B (using ANSI C63.4:2009);
47 CFR, FCC Part 18 (using FCC MP-5);
IEC 61000-3-2; IEC 61000-3-3

EMC – Immunity

IEC 61000-4-2; EN 61000-4-2;
IEC 61000-4-4; EN 61000-4-4;
IEC 61000-4-5; EN 61000-4-5;
IEC 61000-4-6; EN 61000-4-6;
IEC 61000-4-8; EN 61000-4-8;
IEC 61000-4-11; EN 61000-4-11

*Generic/Product
Family Standards*

IEC 61000-6-1; EN 61000-6-1; IEC 61000-6-2; EN 61000-6-2;
IEC 61000-6-3; EN 61000-6-3; IEC 61000-6-4; EN 61000-6-4;
CISPR 14-2; EN 55014-2; AS/NZS CISPR 14-2;
CISPR 24; EN 55024;
EN 61326-1;
EN 50121-3-2; EN 50121-4;
EN 50130-4;
EN 62233;
Gaming Machine National Standard 10.1, February 2010 – clauses 2.3.52 to
2.3.57 and 2.3.59

Military EMC

MIL-STD-461E / F (RS101)

Short Range Devices

AS/NZS 4268



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

AUSTEST LABORATORIES

Castle Hill, NSW, Australia

for technical competence in the field of

Electrical 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 6th day of January 2012.



A handwritten signature in black ink, reading "Peter Abney", written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 2765.02
Valid to November 30, 2013

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