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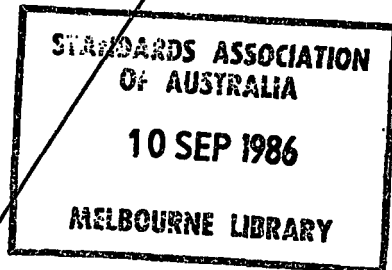
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APPROVAL AND TEST SPECIFICATION— PORTABLE LAMP STANDARDS AND BRACKETS

1990



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Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Consumer Electronics Suppliers Association
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Electricity Supply Association of Australia
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Amended and redated	1948
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STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 1
to
AS 3128—1986
Approval and Test Specification—
PORTABLE LAMP STANDARDS AND BRACKETS

REVISED TEXT

The 1986 edition of AS 3128 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 4 and 7.

Published on 6 April 1987.

AMDT
No 1
APR.
1987

Page 4. Clause 4.

Delete the second paragraph following item (b) and *substitute* the following:

Notwithstanding the requirements for Clauses 4.3.10 and 5.1 of AS 3100, a flexible cord may be terminated in a lighting fitting at the terminals of a lamp holder with a screw-on cover.

This amendment forms part of the specification on publication.

AMDT
No 1
APR.
1987

Page 4. Clause 7.

Delete the line following the second paragraph and *substitute* the following:

‘If the flexible cord needs replacement, use only
2-core sheathed type’

This amendment forms part of the specification on publication.

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 2
to
AS 3128—1986
Approval and Test Specification—
PORTABLE LAMP STANDARDS AND BRACKETS

REVISED TEXT

The 1986 edition of AS 3128 which was amended in April 1987 is further amended as follows; the amendments should be inserted in appropriate place.

SUMMARY: The following sections of the Standard are covered by this amendment: Table 1 and Clauses 14.3 and 14.4.

Published on 1 December 1987.

AMDT
No 2
DEC.
1987

Page 6. Table 1

1. *Insert* the following new Test No 9:

910	Abnormal operation test	14.3 herein
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2. *Renumber* Test Nos 9 and 10 as 10 and 11.
3. *Renumber* Clause 14.3 and 14.4 as 14.4 and 14.5.

This amendment forms part of the specification 2 years after publication.

AMDT
No 2
DEC.
1987

Page 7. Clause 14.3.

1. *Add* the following new Clause 14.3:

14.3 Abnormal operation test. Following the temperature test of Clause 14.2, any lamp incorporating a fan or blower shall be operated for a further period at rated voltage with the fan or blower stalled.

It shall be operated—

 - (i) until any non-self-resetting device, which requires replacement of a part, operates: or
 - (ii) for 1 h, or until stable temperatures are reached, whichever is the lesser.

During and after the test there shall be no emission of flame or molten metal or other manifestation of fire hazard, nor shall live parts be exposed to the standard test finger.
2. *Renumber* existing Clause 14.3 and 14.4 as 14.4 and 14.5.

This amendment forms part of the specification 2 years after publication.

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 3

to

AS 3128—1986

**APPROVAL AND TEST SPECIFICATION—
 PORTABLE LAMP STANDARDS AND BRACKETS**

REVISED TEXT

The 1986 edition of AS 3128 which was amended in April and December 1987 is further amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: The following sections of the Standard are covered by this Amendment: Clauses 9.4 and 14.5 and Table 1.

Published on 9 May 1988.

AMDT
No 3
MAY
1988

Page 5. Clause 9.4.

Add the following to the final sequence:

if they comply with the requirements of the high voltage test of Table 1.

This Amendment forms part of the Specification 6 months after publication.

AMDT
No 3
MAY
1988

Page 6. Table 1.

1. Add the following as test No. 9.

9 Stability test 14.5 herein

2. Renumber existing test Nos 9 and 10 as 10 and 11.

This Amendment forms part of the Specification on publication.

Page 7. Clause 14.5.

Add the following new clause:

14.5. Stability test. A free standing lighting fitting intended for placing on a horizontal surface such as a floor or a table shall have adequate stability.

Compliance is checked by the following test and for the purpose of the test, lighting fittings provided with an appliance inlet socket shall be fitted with an appropriate connector and flexible cord.

The fitting is placed on a plane inclined at an angle of 10° to the horizontal and adjusted to the most unfavourable condition. During the test the supply flexible cord is to rest on the plane in the most unfavourable position.

If the lighting fitting has a flexible or articulated arm the most unfavourable condition, required by paragraph three above for this test, is achieved by adjusting the arm prior to placing the fitting on the inclined plane, such that the arm when extended makes an angle of 45° to the horizontal. If a flexible or articulated arm is off centre with respect to the base, the arm shall be bent in the most unfavourable direction. If the lighting fitting has more than one flexible or articulated arm, one of the arms shall be adjusted for a fitting having a single arm, and the other arm or arms shall be extended vertically.

The lighting fitting shall not overturn.

In addition, to the test required in paragraph four above, for a lighting fitting with a flexible or articulated arm, the arm is adjusted to the most arduous position and the test repeated. If the fitting overturns, the lamp-head assembly, complete with a lamp of wattage as nominated in Clause 14.2 shall be placed in a position likely to be caused by the fitting overturning, on a piece of particle board which is covered by a single layer of tissue paper.

The fitting is operated as detailed in Clause 14.2 for a period of 1h during which time there shall be no ignition of the tissue paper or scorching of the particle board.

This Amendment forms part of the Specification on publication.

STANDARDS AUSTRALIA

Amendment No 4
to
AS 3128—1986

Approval and test specification—Portable lamp standards and brackets

REVISED TEXT

The 1986 edition of AS 3128, which was amended in April and December 1987 and May 1988, is further amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 12, 13, 14.5, 14.6 and Table 1.

Published on 14 July 1989.

AMDT
No 4
JULY
1989

Page 5. Clause 12.

Insert the words 'constructed or' before the word 'used' in line three of Clause 12.

This Amendment forms part of the Specification on publication.

AMDT
No 4
JULY
1989

Page 5. Clause 13.

Delete the first sentence and *substitute* the following:

The name or registered trade name or mark of the manufacturer or responsible vendor, or of the applicant for approval.

This Amendment forms part of the Specification on publication.

AMDT
No 4
JULY
1989

Page 6. Table 1.

Delete the existing Table 1 and *insert* the following new Table 1.

TABLE 1
TESTS TO BE APPLIED AND ORDER OF APPLICATION

Test No	Description of test	Clause reference to test procedure and criteria
1	Insulation resistance test	8.3.1 of AS 3100
2	High voltage test	8.4 of AS 3100
3	Test of earthing connection	8.5 of AS 3100
4	Cord anchorage test	8.6 of AS 3100
5	Test of screw threads and fixings	8.7 of AS 3100
6	Temperature test	14.2 herein
7	Leakage current test	8.3.2 of AS 3100
8*	High voltage test	8.4 of AS 3100
9	Stability test	14.6 herein
10†	Abnormal operation test	14.3 herein
11	Determination of ignitability and combustion propagation	14.4 herein
12‡	Test for d.c. component	14.5 herein

* This test is conducted immediately after Test No. 7, i.e. while the lamp standard or bracket is hot.

† This test may be conducted in conjunction with earlier appropriate tests.

‡ Test No 10 and Clause 14.3 form part of the Specification in December 1989.

This Amendment forms part of the Specification on publication.

AMDT
No 4
JULY
1989

Page 7. Clause 14.5.

Delete existing Clause 14.5 and *substitute* the following:

14.5 Test for d.c. component. The appliance shall be tested in accordance with Clause 3.12 of AS 3100. The direct current in the appliance neutral shall not exceed—

- (a) 5 mA for lamps with continuously energized components (e.g. touch control) with the lamp non-luminous, or
- (b) 30 mA for all other conditions provided that the total d.c. produced in a 24-hour period does not exceed 120 mA/h with the lamp being luminous for 4 h of the 24 h.

This Amendment forms part of the Specification on publication.

AMDT
No 4
JULY
1989

Page 7. Clause 14.6.

Renumber Clause 14.5, inserted by Amendment 3, May 1988, as Clause 14.6.

This Amendment forms part of the Specification on publication.

PREFACE

This standard was prepared by Committee EL/2, Electrical Approvals Standards. It is one of a series of approval and test specifications issued by the Association. These specifications are accompanied by a general specification AS 3100, containing definitions and general requirements for electrical materials and equipment. The purpose of these specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment in Australia. Only safety matters and related conditions are covered.

This edition was published to incorporate into the specification Amendment Nos 1 to 5 to AS 3128—1981 and to effect changes to Clauses 9.1, 9.3, 9.4, 10 and 14.3 with regard to new requirements for lampholders, switches and fire tests. Also a list of referenced documents has been added to Clause 1 and a Note with regard to the Standards Mark added to Clause 13.

This specification supersedes AS 3128—1981 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary provisions of a contract.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

**APPROVAL AND TEST SPECIFICATION—
PORTABLE LAMP STANDARDS AND BRACKETS**

This specification shall be read in conjunction with AS 3100. (See also Clause 3, below.)

1 SCOPE AND REFERENCED DOCUMENTS.

1.1 Scope. This specification applies to electric portable lamp standards and brackets for use on direct or alternating current circuits at low or extra-low voltages, but excluding, however, any electric handlamp within the scope of AS 3118.

1.2 Referenced documents. The following approval and test specifications are referred to in this specification:

- AS 3100 Definitions and General Requirements for Electrical Materials and Equipment
- AS 3109 Appliance Couplers for Household and Similar General Purposes
- AS 3117 Bayonet Lampholders
- AS 3118 Electric Inspection Handlamps
- AS 3140 Edison-type Screw Lampholders
- AS 3168 Fluorescent Lamp Ballasts
- AS 3191 Electric Flexible Cords.

2 DEFINITION. For the purpose of this specification, the following definition applies:

Electric portable lamp standards and brackets—lighting fittings which are not intended to be permanently fixed in position; being intended for connection by flexible cords and for placing on a horizontal surface or attachment by spring clamps or other suitable means to vertical or inclined surfaces; and also lighting fittings which are intended to be held in the hand, other than inspection handlamps as defined in AS 3118; and hereinafter referred to as a 'lighting fitting'.

3 COMPLIANCE WITH SPECIFICATIONS.

3.1 General requirements of AS 3100. This specification shall be read in conjunction with AS 3100, and the appropriate provisions of AS 3100 shall apply to the construction of the lighting fitting and the insulation and/or safeguarding of parts which normally carry current.

3.2 Specific requirements of this specification. A lighting fitting shall be deemed to comply with this specification only if it complies with all the requirements of this specification and passes the tests specified herein.

3.3 Requirements of other specifications. Equipment and components incorporated in a lighting fitting which are depended upon for safety shall comply with the appropriate requirements of any relevant approval and test specification unless such requirements are varied herein.

4 MEANS OF CONNECTION. The lighting fitting shall be provided with one of the following means of connection to the supply:

- (a) An appliance inlet complying with AS 3109.
- (b) A power supply cord which shall be assembled with the appliance by one of the following methods:

- Type X attachment.
- Type M attachment.
- Type Y attachment.
- Type Z attachment.

The terminals of lampholders and starter switches in lighting fittings of the fluorescent type shall not be used as a means of connection.

~~Notwithstanding the requirements of Clause 5.1 of AS 3100, a flexible cord may be terminated in a lighting fitting by means of a lampholder with a screw-on cover.~~

A portable lamp having a maximum of two lampholders may be fitted with two supply flexible cords, provided that each supply flexible cord is connected directly to a lampholder and is visible for its entire length up to the lampholder.

5 FLEXIBLE CORD AND CONNECTING PLUG.

Where required by Clause 4.4 of AS 3100, every lighting fitting shall be provided with a supply flexible cord and connecting plug.

Any flexible cord provided with a lighting fitting for the purpose of connecting it to the supply shall—

- (a) be of a type complying with AS 3191 and not inferior to the following—
 - (i) parallel two-core unsheathed, braided, uninkable or a light duty sheathed type for indoor household lighting fittings; or
 - (ii) ordinary duty sheathed type for outdoor lighting fittings;
- (b) be correctly wired in accordance with the appropriate requirements of Clause 4.4 of AS 3100; and
- (c) have a free length of not less than 1.8 m.

6 EARTHING FACILITIES. If the lighting fitting has any exposed metal parts (see Definition 2.19 of AS 3100), facilities shall be provided for the earthing of such parts.

A metal shade intended to clip onto a lamp, and the metal end caps of fluorescent lamps are not regarded as exposed metal for the purpose of this clause.

7 DOUBLE INSULATION. A lighting fitting provided with double insulation shall comply with the relevant requirements of AS 3100.