

AS 3128—1990

1993 ED.

Amct 1.
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Australian Standard®

**Approval and test specification—
Portable lamp standards and
brackets**



This Australian Standard was prepared by Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of Standards Australia on 20 March 1990 and published on 16 July 1990.

The following interests are represented on Committee EL/2:

Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Consumer Electronics Suppliers Association
Electrical Apparatus Approvals Authorities
Electrical Testing Laboratories
Electricity Supply Association of Australia
Institution of Engineers, Australia

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STANDARDS AUSTRALIA

Amendment No 1
to
AS 3128—1990
Approval and test specification—
Portable lamp standards and brackets

REVISED TEXT

The 1990 edition of AS 3128 is amended as follows; the amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 14 and 15.2.

Published on 15 October 1990.

AMDT
No 1
OCT
1990

Page 6 Clause 14

Delete the final paragraph but not the note, and *substitute* the following:

Where the lighting fitting is marked with the maximum wattage of lamp it is designed to accommodate or, if it is marked to indicate its use with a particular style of lamp, such marking shall be made on the lighting fitting or, where this is not practicable, on a durable label securely attached thereto (see Clause 15.2).

This Amendment forms part of the Specification 12 months after publication.

AMDT
No 1
OCT
1990

Page 6 Clause 15.2

Delete the second paragraph and *substitute* the following:

The lighting fitting shall be tested with a shade provided with the fitting and with any lamp of wattage not exceeding the maximum wattage of lamp marked on the fitting which produces the greatest temperature rise on component parts. In the absence of such marking, the lighting fitting shall be tested with any lamp which the fitting will accommodate and which produces the greatest temperature rise on component parts.

If the lighting fitting is marked for use with a particular style of lamp, it shall be tested as for the above conditions but using the particular style of lamp marked on the lighting fitting.

NOTE: To determine the maximum temperature rise on component parts, more than one test may be required, using lamps of the wattage marked on the lighting fitting but having differing shape and filament constructions.

This Amendment forms part of the Specification 12 months after publication.

STANDARDS AUSTRALIA

Amendment No 2
to
AS 3128—1990
Approval and test specification—
Portable lamp standards and brackets

REVISED TEXT

The 1990 edition of AS 3128, which was amended in October 1990, is further amended as follows; the amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clause 15.6.

Published on 25 January 1991.

AMDT
No 1
JAN.
1991

Page 7 Clause 15.6

Delete Clause 15.6 and *substitute* the following:

15.6 Stability test Free standing lighting fittings for use on a surface such as a floor or table shall have adequate stability. Compliance is checked by the following:

- (a) The lighting fitting is placed in a position of normal use on a plane inclined at 10° to the horizontal, the flexible cord resting on the inclined plane in the most unfavourable position and lighting fittings provided with an appliance inlet being fitted with an appropriate connector and flexible cord. If the lighting fitting is such that part of it not normally in contact with the supporting surface touches it when tilted to an angle of less than 10°, it shall be placed on a horizontal support which can be tilted in the most unfavourable direction through an angle of 10°.

If the lighting fitting has a flexible or articulated arm, it shall be adjusted to a position of normal use before placing it on the inclined plane. If provided with more than one flexible or articulated arm, one of them shall be adjusted for a lighting fitting having a single arm, any others being extended vertically. The lighting fitting shall not overturn.

- (b) If the lighting fitting has a flexible or articulated arm, the arm shall be adjusted to the most unfavourable position of normal use and the test described in (a) repeated. If the lighting fitting overturns, no damage shall have been done to the lighting fitting which can expose live parts to personal contact. This includes damage to any lamp. Additionally where the lighting fitting overturns, the lamp assembly complete with a lamp of wattage as nominated in Clause 15.2 shall be placed in a position likely to be caused by the lighting fitting overturning, on a piece of particle board which is covered by a single layer of tissue paper.

The lighting fitting is operated as detailed in Clause 15.2 for a period of 1 h 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. 3
to
AS 3128—1990

Approval and test specification—Portable lamp standards and brackets

REVISED TEXT

The 1990 edition of AS 3128 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clause 11.

Published on 16 March 1992.

AMDT
No. 3
MAR.
1992

Page 6 Clause 11

First paragraph, line 3, *add* the following sentence:

The 'off' or 'on' position of the switch shall be indicated.

This Amendment forms part of the Specification 18 months after publication.

STANDARDS AUSTRALIA



Amendment No. 4
to
AS 3128—1990

Approval and test specification—Portable lamp standards and brackets

REVISED TEXT

The 1990 edition of AS 3128 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clause 8.

Published on 12 October 1992.

AMDT
No. 4
OCT.
1992

Page 5 Clause 8

Delete the fifth and sixth paragraphs, and *insert* the following notes after the existing fourth paragraph:

NOTES:

- 1 Thought should be given in design, to maintaining double insulation after replacement of the power supply cord. Factors such as insulation creepage or excessive removal of insulation should be taken into account.
- 2 Where insulating sleeving is used as additional protection over single insulation, the sleeving should be fixed in a way that allows the replacement of the power supply cord or lampholder.
- 3 Methods of maintaining double insulation are shown in Figure 1.

This Amendment forms part of the Specification on publication.

Australian Standard®

**Approval and test specification—
Portable lamp standards and
brackets**

First published as AS C128—1947.
Second edition 1948
Revised and redesignated AS 3128—1974.
Second edition 1981.
Third edition 1986.
Fourth edition 1990.

PREFACE

This Specification was prepared by the Standards Australia Committee on Electrical Approvals Standards to supersede AS 3128—1986. Portable lamp standards and brackets.

It is one of a series of Approval and Test Specifications issued by Standards Australia. 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 4 to AS 3128—1986 and to effect changes to Clause 9 with regard to new requirements for adjustments.

This Specification supersedes AS 3128—1986 from date of publication.

Standards Australia 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 AUSTRALIA

Australian Standard

Approval and test specification—Portable lamp standards and brackets

1 SCOPE. This Specification specifies essential safety requirements for electric portable lamp standards and brackets for use on direct or alternating current circuits at low or extra-low voltages. It does not apply to any electric handlamp within the scope of AS 3118.

2 APPLICATION.

2.1 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 safeguarding of parts which normally carry current or both.

2.2 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.

2.3 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.

3 REFERENCED DOCUMENTS. The following documents are referred to in this Specification.

APPROVAL AND TEST SPECIFICATIONS:

- AS 3100 Definitions and general requirements for electrical materials and equipment
- AS 3109.1 Appliance couplers for household and similar general purposes
 - Part 1—General requirements
- 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

4 DEFINITIONS. For the purpose of this Specification, the definition below 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'.

5 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 3109.1.
- (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 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.

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.

6 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, unkinkable or a light duty sheathed type for indoor household lighting fittings; or
 - (ii) ordinary duty sheathed type for outdoor lighting fittings;