

Australian/New Zealand Standard™

**Approval and test specification—
Bayonet lampholders**



AS/NZS 3117:2015

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-041, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 17 November 2014 and on behalf of the Council of Standards New Zealand on 12 December 2014. This Standard was published on 23 January 2015.

The following are represented on Committee EL-041:

Australasian Fire and Emergency Service Authorities Council
Australian Industry Group
Consumers Federation of Australia
Department of Industry
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
Energy Efficiency and Conservation Authority of New Zealand
Fair Trading NSW
IES: The Lighting Society
Independent Pricing and Regulatory Tribunal
Institution of Professional Engineers New Zealand
Joint Accreditation System of Australia and New Zealand
Lighting Council Australia
Lighting Council New Zealand
Master Electricians Australia
Ministry of Business, Innovation and Employment, New Zealand

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.saiglobal.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR AS 3117:2014.

Australian/New Zealand Standard™

Approval and test specification— Bayonet lampholders

Originated as AS C117—1939.
Previous edition AS/NZS 3117:2007.
Sixth edition 2015.
Reissued incorporating Amendment No. 1 (December 2015).

COPYRIGHT

© Standards Australia Limited/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, Private Bag 2439, Wellington 6140.

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment, to supersede AS/NZS 3117:2007 on publication.

This Standard incorporates Amendment No. 1 (December 2015). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

A1 | This Standard will co-exist with AS/NZS 61184, *Bayonet lampholders (IEC 61184, Ed. 2.0 (1997) MOD)*. While both this Standard and AS/NZS 61184 remain current, the requirements of the two Standards are not allowed to be mixed, unless otherwise stated exclusively in either Standard.

For the purposes of approval, lampholders complying with AS/NZS 61184 are deemed to comply with this Standard.

The objective of this Standard is to provide approval and test specifications for bayonet lampholders for the purposes of safety and approval for sale in Australia and New Zealand.

This Standard is one of a series of approval and test specifications issued by Standards Australia to be read in conjunction with AS/NZS 3100, *Approval and test specification—General requirements for electrical equipment*. The purpose of this series is to outline the conditions that have to be met to secure approval for the sale and use of electrical equipment in Australia and New Zealand. Only safety matters and related conditions are covered.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to bayonet lampholders are covered by this Standard, taken in conjunction with any other relevant requirements affecting safety.

The principal differences between this and the previous edition are as follows:

- (a) The text of the Standard has been updated to align with the most recent editions of the referenced documents.
- (b) The text of Clause 19.1 (previously Clause 17.1), *Resistance to flame and ignition*, has been corrected to align it with the resistance to flame and ignition tests of AS/NZS 60598.1, *Luminaires, Part 1: General requirements and tests (IEC 60598-1, Ed. 7.0 (2008) MOD)*.

This Standard does not purport to include all the necessary provisions of a contract.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

Statements expressed in mandatory terms in footnotes to tables and figures are deemed to be requirements of this Standard.

CONTENTS

| | <i>Page</i> |
|-------------------------------------------------------------------------------------------------------------|-------------|
| 1 SCOPE AND REFERENCED DOCUMENTS..... | 4 |
| 2 DEFINITIONS | 4 |
| 3 COMPLIANCE WITH STANDARDS | 5 |
| 4 DIMENSIONS | 5 |
| 5 CONSTRUCTION | 6 |
| 6 CONTACTS..... | 6 |
| 7 INSULATING MATERIALS | 7 |
| 8 CERAMIC MATERIALS | 7 |
| 9 CURRENT-CARRYING PARTS | 7 |
| 10 METAL FERRULES | 8 |
| 11 MEANS OF CONNECTION | 8 |
| 12 EARTHING FACILITIES | 8 |
| 13 SWITCHES IN LAMPHOLDERS | 8 |
| 14 HEAT-RESISTING PROPERTIES..... | 8 |
| 15 PENDANT AND CORD-GRIP LAMPHOLDERS | 8 |
| 16 MARKING | 9 |
| 17 RATING | 9 |
| 18 TESTS..... | 9 |
| 19 RESISTANCE TO FIRE AND TRACKING..... | 14 |
| APPENDICES | |
| A GO GAUGES FOR CHECKING THE FORM, DIMENSIONS AND CONTACT EFFECTIVENESS OF B22 AND B15 LAMPHOLDERS | 15 |
| B NO-GO GAUGES FOR CHECKING THE MAXIMUM PERMISSIBLE DIAMETER OF B22 AND B15 LAMPHOLDERS..... | 18 |
| C GAUGES FOR CHECKING THE CONTACT FORCE IN B22 AND B15 LAMPHOLDERS | 19 |

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Approval and test specification—Bayonet lampholders****1 SCOPE AND REFERENCED DOCUMENTS****1.1 Scope**

This Standard specifies requirements and tests for 2-slot or 3-slot, or both, B22 bayonet lampholders and for bayonet lampholders of the B15 (small) designation which are intended for use in low-voltage circuits.

1.2 Referenced documents

The following documents are referred to in this Standard:

AS/NZS

- | | |
|---------|-------------------------------------------------------------------------------|
| 3100 | Approval and test specification—General requirements for electrical equipment |
| 3121 | Approval and test specification—Insulating mouldings |
| 3133 | Approval and test specification—Air-break switches |
| 60598 | Luminaires |
| 60598.1 | Part 1: General requirements and tests (IEC 60598-1, Ed. 7.0 (2008) MOD) |
| 61058 | Switches for appliances |
| 61058.1 | Part 1: General requirements (IEC 61058-1, Ed. 3.1 (2000) MOD) |
| 61184 | Bayonet lampholders (IEC 61184, Ed. 2.0 (1997) MOD) |

IEC

- | | |
|---------|--------------------------------------------------------------------------------------------------------------|
| 60061 | Lamp caps and holders together with gauges for the control of interchangeability and safety |
| 60061-1 | Part 1: Lamp caps |
| 60061-2 | Part 2: Lampholders |
| 60061-3 | Part 3: Gauges |
| 60064 | Tungsten filament lamps for domestic and similar general lighting purposes—Performance requirements |
| 60112 | Method for the determination of the proof and the comparative tracking indices of solid insulating materials |

2 DEFINITIONS

For the purpose of this document, the following definitions apply:

2.1 Batten lampholder

A lampholder incorporating a base designed for fixing directly to a surface.

2.2 Bayonet lampholder

An accessory into which lamps having bayonet caps may be inserted for connection to the supply.

NOTE: Throughout this Standard, a bayonet lampholder is referred to as a lampholder.

2.3 B22 lampholder

A bayonet lampholder into which lamps having bayonet caps of 22 mm nominal diameter can be inserted.