

Australian/New Zealand Standard™

**Household and similar electrical
appliances—Safety**

**Part 2.17: Particular requirements for
blankets, pads, clothing and similar
flexible heating appliances
(IEC 60335-2-17 Ed 3.2, MOD)**



AS/NZS 60335.2.17:2012

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 8 October 2012 and by the Council of Standards New Zealand on 27 September 2012.

This Standard was published on 26 October 2012.

The following are represented on Committee EL-002:

Association of Accredited Certification Bodies
Australian Industry Group
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Consumers' Federation of Australia
Electrical Regulatory Authorities, Australia
Electrical consultants
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JAS-ANZ
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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 Standards Australia or the New Zealand Standards Executive at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 12912.

Australian/New Zealand Standard™

Household and similar electrical appliances—Safety

Part 2.17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances (IEC 60335-2-17 Ed 3.2, MOD)

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.17:2012

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –**Part 2.17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances****Foreword**

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers to supersede AS/NZS 60335.2.17:2004 three years from the date of publication. During this period it is anticipated that regulatory authorities will approve blankets, pads, clothing and similar flexible heating appliances to either standard.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements designed to give the user protection against hazards that might occur during normal operation and abnormal operation of the appliance and which may be used as the basis for approval for sale or for connection to the electricity supply mains in Australia and New Zealand.

The text of IEC 60335-2-17 Ed 3, prepared by IEC Technical Committee 61, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

The principal changes in this edition as compared with the 2004 edition of AS/NZS 60335.2.17 and its amendments are as follows (minor changes are not listed).

- The definition of PTC heating element has been deleted and the definition in Part 1 now applies. A definition of a heating element with PTC characteristics has been introduced instead (3.117). This has resulted in editorial changes to 5.7, 5.8.2, 7.1, 10.101, 11.2, 21.105, 21.111.1 and 21.112.
- The allowance for class I appliances has been deleted and requirements for appliances incorporating a functional earth have been incorporated (6.1, 7.1, 22.115).
- The working voltage of parts of class III construction is limited to 24 V (22.26).
- Some notes have been deleted or converted to normative text (3.107, 3.111, 3.113, 5.2, 5.3, 5.8.2, 11.8, 11.101, 11.102, 15.1, 15.101, 19.1, 19.13, 19.102, 19.103, 19.105, 19.106, 19.108, 19.109, 19.110, 19.111, 19.112, 21.1, 21.102, 21.103, 21.109, 21.110.3, 21.111.1, 21.111.2, 21.111.3, 21.112, 22.103, 22.114, 25.23, Annex AA, Annex CC 3.1.9, 19.201, 19.203).
- Modification of the marking requirements (7.1, 7.14, 7.15).
- Modification of the instructions (7.12).
- Clarification of the heat stroke test (11.101).
- The figure numbers have been updated to take into account deletion of Figure 103 in the previous edition.

The text of IEC 60335-2-17 Ed 3 amendment 1, prepared by IEC Technical Committee 61, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption as an amendment to the Standards Australia/Standards New Zealand joint standard AS/NZS 60335.2.17:2012.

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This Standard incorporates Amendment No. 1 (June 2016). 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. Where an application date other than immediate is applicable to an amendment the date of application (DOA) is indicated by the marginal bar against the part affected. Unless otherwise indicated, the application date of the changes introduced by Amendment No. 1 is 30 June 2018. Up until this date it is anticipated that regulatory authorities will approve blankets, pads, clothing and similar flexible heating appliances as follows.

- Up until 30 June 2018: AS/NZS 60335.2.17:2012 or AS/NZS 60335.2.17:2012 + A1:2016;
- After 30 June 2018: AS/NZS 60335.2.17:2012 + A1:2016

This Standard is an adoption with national modifications of the third edition of IEC 60335-2-17, *Household and similar electrical appliances – Safety – Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances* including its amendment 1 (2015). It has been varied as indicated to take account of Australian and New Zealand conditions.

The text of IEC 60335-2-17 edition 3 amendment 2, prepared by IEC Technical Committee TC 61, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption as an amendment to the Standards Australia/Standards New Zealand joint standard AS/NZS 60335.2.17:2012.

This standard incorporates Amendment No.1 (January 2017) and Amendment No. 2 (June 2020). The changes introduced by the amendments are indicated in the text by a marginal bar and amendment number against the part affected. Where an application date other than immediate is applicable to an amendment the date of application (DOA) and the date of withdrawal (DOW) if relevant, is indicated by the marginal bar against the part affected. Unless otherwise indicated, the application date of the changes introduced by Amendment No. 2 is 26 June 2022.

NOTE: Regulatory authorities that reference this Standard in regulation may apply these amendment requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements

This standard is an adoption with national modifications of the third edition of IEC 60335-2-17, *Household and similar electrical appliances – Safety – Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances* including its amendment 1 (2015) and amendment 2 (2019). It has been varied as indicated to take account of Australian and New Zealand conditions.

This part 2 has to be used in conjunction with the latest edition of AS/NZS 60335.1 Household and similar electrical appliances – Safety – Part 1: General requirements and its Amendments. It was established on the basis of AS/NZS 60335.1:2011.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 60335.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for blankets, pads, clothing and similar flexible heating appliances.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 1 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.;
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letters AZ.

NOTE 2 The following print types are used:

- requirements: in roman type;

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- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3.

p NOTE 3 In this document, p is used in the margin to indicate instructions for preparing a consolidated version.

The essential safety requirements in AS/NZS 3820¹ that could be applicable to requirements for blankets, pads, clothing and similar flexible heating appliances are covered by this standard.

A2
DOW
26/6/22

The national variations to IEC 60335-2-17 Ed 3.1 form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

A2
DOA
26/6/22

The national variations to IEC 60335-2-17 Ed 3.2 form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme)

There are national variations from the IEC Standard from which this standard is adopted, in addition to those listed in the national variations to AS/NZS 60335.1.

¹ AS/NZS 3820 *Essential safety requirements for electrical equipment*

A2
DOW
26/6/22

The text of the International Standard IEC 60335-2-17 Ed 3.1 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

A2
DOA
26/6/22

The text of the International Standard IEC 60335-2-17 Ed 3.2 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

AUSTRALIAN NATIONAL VARIATIONS

The following national variations to this Part 2 are additional to those listed in the national variations to AS/NZS 60335.1:2011.

- p 7.1** *Replace* the first sentence of the third to last paragraph with the following variation.

A1

- A1 The **flexible part** of **blankets** and **detachable covers** shall be marked with the appropriate laundering symbols specified in ISO 7000 and an explanation of their meaning.

NEW ZEALAND NATIONAL VARIATIONS

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