

Australian/New Zealand Standard™

**Household and similar electrical
appliances—Safety**

**Part 2.81: Particular requirements for
foot warmers and heating mats**



AS/NZS 60335.2.81:2012

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 on behalf of 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:

Australian Industry Group
Australian Retailers Association
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Consumers' Federation of Australia
Electrical Regulatory Authorities, Australia
Electrical Compliance Testing Association
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This Standard was issued in draft form for comment as DR 12920.

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Household and similar electrical appliances—Safety

Part 2.81: Particular requirements for foot warmers and heating mats

Jointly revised and redesignated AS/NZS 3350.2.81:1998.
Jointly revised and redesignated AS/NZS 60335.2.81:2006.
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.81:2012HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –

Part 2.81: Particular requirements for foot warmers and heating mats

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 60335.2.81:2006 two years from the date of publication. During this period it is anticipated that regulatory authorities will approve foot warmers and heating mats to either standard.

The principal changes in this edition as compared with the edition 2.1 of IEC 60335-2-81 are as follows (minor changes are not listed).

- It clarifies requirements for appliances incorporating heating elements with PTC characteristics (10.101, 21.102.1 and 21.103);
- It introduces additional requirements for insulation of heating element and internal wiring (22.104 and 30.102).

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 60335-2-81 Ed 2.2, 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.

This Standard is an adoption with national modifications of the second edition of IEC 60335-2-81, *Household and similar electrical appliances – Safety – Part 2-81: Particular requirements for foot warmers and heating mats* including its amendment 1 (2008) and amendment 2 (2011). 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 foot warmers and heating mats.

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.;

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