

Australian/New Zealand Standard™

**Safety of household and similar  
electrical appliances**

**Part 2.30: Particular requirements for  
Room heaters  
(IEC 60335-2-30:1996, MOD)**



### **AS/NZS 3350.2.30:2007**

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 3 May 2007 and on behalf of the Council of Standards New Zealand on 30 March 2007.

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The following are represented on Committee EL-002:

Association of Certification Bodies  
Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers Association  
Canterbury Manufacturers Association New Zealand  
Consumer Electronic Suppliers Association, Australia  
Electrical regulatory authorities, Australia  
Electrical test laboratories  
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Electricity Supply Association of Australia  
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## Australian/New Zealand Standard™

### **Part 2.30: Particular requirements for Room heaters (IEC 60335-2-30:1996, MOD)**

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## PREFACE

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 3350.2.30:1997, on publication. It forms the second edition of AS/NZS 3350.2.30, *Safety of household and similar electrical appliances, Part 2.30: Particular requirements—Room heaters*.

A1 This Standard incorporates Amendment No. 1 (November 2007). The changes introduced 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.

The principal changes in this edition as compared with the previous edition of AS/NZS 3350.2.30 are as follows. Minor changes are not listed.

It incorporates the following amendments to the previous edition: amendment 1 (January 1999), amendment 2 (March 2001), amendment 3 (June 2001), amendment 4 (November 2003) ) and amendment 5 (November 2005).

It incorporates a drop test for portable fan heaters (Clause 21) the details of which were circulated in DR 06961.

The objective of this Standard is to provide manufacturers and regulatory bodies with minimum safety requirements, designed to give 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 supply in Australia and New Zealand.

This Standard is technically equivalent to and reproduced from the third edition of IEC 335-2-30:1996, *Safety of household and similar electrical appliances, Part 2.30: Particular requirements for room heaters*, including its Amendment 1, and has been varied to take account of Australian/New Zealand condition. It is to be used in conjunction with the latest edition of AS/NZS 3350.1, *Safety of household and similar electrical appliances, Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 3350.1:2002.

This Standard (Part 2) supplements or modifies the corresponding clauses in AS/NZS 3350.1 (referred to as Part 1 in this Part 2) so as to convert it into the Joint Australian/New Zealand Standard for the safety of room heaters.

Where a particular clause of Part 1 is not mentioned in this Part 2, that clause applies as far as is reasonable. Where this Standard states 'addition' or 'modification' or 'replacement', the relevant text of Part 1 is to be adapted accordingly.

In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

Words in **bold** are defined in Clause 2. Where a definition of Part 1 contains an adjective, the adjective and associated noun are **bold** in this Part 2.

Clauses, subclauses, notes, tables and figures which are additional to those in Part 1 are numbered starting from 101. Annexes which are additional to those in Part 1 are lettered AA, BB and so on.

As this Standard is reproduced from an international Standard the following applies:

Its number does not appear on each page of text and its identity is shown only on the cover and title page.

In the source text 'this International Standard' should read 'this Australian/New Zealand Standard'.

A full point substitutes for a comma when referring to a decimal marker.

A number of variations have been made in this Standard to the requirements of IEC 335-2-30:1996. These variations are necessary to take into account specific national circumstances such as climate and supply characteristics that affect the safety of electrical appliances used in both Australia and New Zealand. These variations are indicated throughout this Standard by a marginal bar located adjacent to the varied text or figure. Descriptions of these variations are to be found in Annex ZZ of this Standard.

These variations also form the Australian and New Zealand national variations for purposes of the IECCE scheme for recognition of testing to Standards for safety of electrical equipment (the CB Scheme).

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

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 60335-2-30:1996. To allow for the introduction of additional material by the IEC, the numbers 101 to 200 have been reserved. To allow for additional material to be introduced by Australia and New Zealand, the numbers 201 to 300 are used to number further clauses, subclauses, notes, tables and figures in Part 1 and the numbers 301 to 400 are used to number further clauses, subclauses, notes, tables and figures in this Part 2. Additional annexes are lettered ZA, ZB and so on.

This scheme has been introduced to reduce the likelihood of the IEC and Australia and New Zealand using the same identifier for different purposes.

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# STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## Australian/New Zealand Standard

### Safety of household and similar electrical appliances Part 2.30: Particular requirements – Room heaters

#### 1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of electric room heaters for household and similar purposes, their **rated voltage** being not more than 250 V for single-phase appliances and 480 V for other appliances.

NOTE 1 - Examples of appliances which are within the scope of this standard are:

- radiant heaters;
- panel heaters;
- liquid-filled radiators;
- fan heaters;
- convector heaters;
- tubular heaters;
- heaters for use in greenhouses.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in the shops, in light industry and on farms, are within the scope of this standard.

So far as is practicable, this standard deals with the common hazards presented by appliances which are encountered by all persons in and around the home.

This standard does not in general take into account

- the use of appliances by young children or infirm persons without supervision;
- playing with the appliance by young children.

#### NOTES

2 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- ~~for appliances intended to be used in tropical countries, special requirements may be necessary;~~
- for the purpose of this Standard, Australia and New Zealand are not considered to be tropical;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;
- for appliances intended to be used in the presence of combustible dust, for example in barns or stables, additional requirements may be necessary.

3 This standard does not apply to:

- appliances intended to be used where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- heaters which are built into air conditioners (IEC 60335-2-40);