

Australian/New Zealand Standard™

**Household and similar electrical  
appliances—Safety**

**Part 2.90: Particular requirements for  
commercial microwave ovens**



## **AS/NZS 60335.2.90:2017**

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 2 December 2016 and by the New Zealand Standards Approval Board on 9 December 2016.

This Standard was published on 13 January 2017.

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The following are represented on Committee EL-002:

Australian Industry Group  
National Retailers Association (Australia)  
Business New Zealand  
Consumer Electronic Suppliers Association, Australia  
Consumers' Federation of Australia  
Electrical Regulatory Authorities, Australia  
Electrical consultants  
Engineers Australia  
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Testing Interests New Zealand  
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*This Standard was issued in draft form for comment as DR 16906.*

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# Australian/New Zealand Standard™

## Household and similar electrical appliances—Safety

### Part 2.90: Particular requirements for commercial microwave ovens

Originated as AS/NZS 60335.2.90:2006.  
Jointly revised and redesignated AS/NZS 60335.2.90:2015.  
Jointly revised and redesignated AS/NZS 60335.2.90:2017.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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AS/NZS 60335.2.90:2017HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –

## Part 2.90: Particular requirements for commercial microwave ovens

## 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 60335.2.90:2015 three years from the date of publication.

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 60335-2-90 Ed 4, prepared by IEC Technical Committee SC 61B, 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 2006 edition of AS/NZS 60335.2.90 are as follows (minor changes are not listed):

- a statement in 7.12 is required for appliances intended to be used on commercial road vehicles;
- a statement in 7.12 is required concerning cleaning of the appliance with a water jet;
- the replacement of 22.103, 22.104 and 22.105 allows interlock systems with at least one concealed door interlock as well as alternative interlock systems without concealed door interlock;
- requirements are added for appliances for installation in commercial road vehicles;
- an annex is added dealing with routine tests

This Standard is an adoption with national modifications of the fourth edition of IEC 60335-2-90, *Household and similar electrical appliances – Safety – Part 2-90: Particular requirements for commercial microwave ovens*. 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 commercial microwave ovens.

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;
- *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 3820<sup>1</sup> that could be applicable to requirements for commercial microwave ovens are covered by this standard.

The national variations to IEC 60335-2-90 Ed 4 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).

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

The text of the International Standard IEC 60335-2-90 Ed 4 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

#### **AUSTRALIAN NATIONAL VARIATIONS**

There are no national variations to this part 2 other than those listed in the national variations in AS/NZS 60335.1:2011.

#### **NEW ZEALAND NATIONAL VARIATIONS**

There are no national variations to this part 2 other than those listed in the national variations in AS/NZS 60335.1:2011.

**Annex ANZ  
(normative)**

**Normative references to international publications with their corresponding joint  
Australia/New Zealand publications**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by national variations the relevant joint Australia/New Zealand publications applies if the national variations are needed to ensure the safety of the appliance for Australia/New Zealand conditions. These international publications are indicated by (mod). If an international publication is not so indicated, then either it or the listed Australia/New Zealand publication may be used.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>AS/NZS</u>	<u>Year</u>
IEC 60068-2-6,		<i>Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)</i>		
IEC 60068-2-27		<i>Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock</i>		
IEC 60068-2-52		<i>Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)</i>		
IEC 60436:2004 IEC 60436:2004 /AMD 1:2009 IEC 60436:2004 /AMD 2:2012		<i>Electric dishwashers for household use – Methods for measuring the performance</i>		