

Australian/New Zealand Standard™

**Household and similar electrical
appliances—Safety**

**Part 2.6: Particular requirements for
stationary cooking ranges, hobs, ovens
and similar appliances
(IEC 60335-2-6 Ed 6, MOD)**



AS/NZS 60335.2.6:2014

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 12 November 2014 and on behalf of the Council of Standards New Zealand on 10 November 2014.

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The following are represented on Committee EL-002:

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Australian/New Zealand Standard™

Household and similar electrical appliances—Safety

Part 2.6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances (IEC 60335-2-6 Ed 6, MOD)

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.6:2014**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2.6: Particular requirements for stationary cooking ranges,
hobs, ovens and similar 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 60335.2.6:2008 three years from the date of publication. During this period it is anticipated that regulatory authorities will approve stationary cooking ranges, hobs, ovens and similar appliances to either standard.

The principal changes in this edition as compared with the 2008 edition of AS/NZS 60335.2.6 and its amendments are as follows (minor changes are not listed).

- introduction of requirements for steam ovens;
- introduction of requirements for ovens intended for use on ships;
- clarified requirements for oven shelve construction and test;
- introduction of optional values for the accessible surface temperatures of ovens;
- introduction of stabilising means including warnings;
- clarified representative periods for various appliances (Clause 10);
- introduction of a spillage test for built-in under-bench ovens.

This Standard incorporates Amendment No. 1 (November 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. 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 AS/NZS 60335.2.6:2014 is 28 November 2017 and the application date of the changes introduced by Amendment No. 1 is 30 November 2017. Up until these dates it is anticipated that regulatory authorities will approve stationary cooking ranges, hobs, ovens and similar appliances as follows

- Up to 28 November 2017: AS/NZS 60335.2.6:2008 including its amendments or AS/NZS 60335.2.6:2014 or AS/NZS 60335.2.6:2014 + A1:2015;
- After 28 November 2017 and up to 30 November 2017: AS/NZS 60335.2.6:2014 or AS/NZS 60335.2.6:2014 + A1:2015;

After 30 November 2017: AS/NZS 60335.2.6:2014 + A1:2015.

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 60335-2-6 Ed 6, 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 of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

This Standard is an adoption with national modifications of the sixth edition of IEC 60335-2-6, *Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances*. 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 appliances for stationary cooking ranges, hobs, ovens and similar 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;
- *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 stationary cooking ranges, hobs, ovens and similar appliances are covered by this standard.

The national variations to IEC 60335-2-6 Ed 6 form the Australian and New Zealand national variations for purposes of the IECCE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

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

The text of the International Standard IEC 60335-2-6 Ed 6 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 of AS/NZS 60335.1:2011.

2 Normative references

Insert the following variation:

*Approval and test specification— AS/NZS 3190
Residual current devices (current
operated earth-leakage devices)*

3 Terms and definitions

- A1
DOA
30/11/17 | p 3.1.201 This definition in Part 1 is Not applicable

7 Marking and instructions

- A1
DOA
30/11/17 | p 7.1 The variation in the second paragraph of the requirement in Part 1 is not applicable.
After the third paragraph *insert* the following variation:

Built-in hobs that require a board in order to meet the temperature limits of 11.8 shall be marked with the substance of the following caution.

CAUTION: The surface temperature exceeds 95 °C. To avoid a hazard, under bench access must be restricted. Refer to the installation instructions.

- p 7.15 After the second paragraph *insert* the following variation:

The caution specified in Clause 7.1 for **built-in hobs** shall be marked adjacent to the supply entry on the underside of the **hob**.

10 Power input and current

- A1
DOA
30/11/17 | p 10.1 The variation in the last paragraph of the test specification in Part 1 is not applicable.

11 Heating

- p 11.1 *Insert* the following variation as a second paragraph to the addition:

For hobs compliance is also checked by the test of 11.301.

p 11.7 The variation in the second paragraph of the test specification in Part 1 is not applicable.

p 11.8 The variation in the second paragraph of the test specification in Part 1 is not applicable.

- p 11.101 *Replace* the paragraph immediately before Table 102 with the following variation:

During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.

- p 11.301 After clause 11.101 *insert* the following variation:

11.301 Hob elements other than induction hob elements are operated under conditions of normal operation except that:

- the vessel is not covered with a lid;
- the water in the vessel is maintained at a depth between 50 mm and 65 mm by the addition of boiling water if necessary;
- thermal controls are adjusted to the highest setting.

If the appliance contains more than one **hob element**, the test is carried out with the **hob element** resulting in the most unfavourable conditions.

The **hob element** is supplied at 1,15 times its power input measured at **rated voltage**. The test is continued for a period of 1 h or until steady conditions are established whichever is shorter.

During the test the temperature rises shall not exceed the values specified in 11.8.

22 Construction

- A1
DOA
30/11/17
- p **22.202** After clause 22.137 *insert* the following variation:
- 22.202** This subclause in Part 1 is Not applicable.
- p **22.301** After clause 22.137 *insert* the following variation:
- 22.301** For appliances containing socket-outlets for general purpose use that are accessible to the user, the socket-outlet shall
- comply with AS/NZS 3112;
 - have a current rating of 10 A;
 - accept a 3-pin, flat-pin plug as described in figure 2.1(a) of AS/NZS 3112; and
 - if the appliance is intended to be permanently connected to the fixed wiring be protected by a Type II/Type AC RCD complying with AS/NZS 3190.
- Compliance is checked by inspection and the appropriate tests.*

NEW ZEALAND NATIONAL VARIATIONS

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

3 Terms and definitions

- A1
DOA
30/11/17
- p **3.1.201** This definition in Part 1 is Not applicable

7 Marking and instructions

- A1
DOA
30/11/17
- p **7.1** The variation in the second paragraph of the requirement in Part 1 is not applicable.
- After the third paragraph *insert* the following variation:

Built-in hobs that require a board in order to meet the temperature limits of 11.8 shall be marked with the substance of the following caution.

CAUTION: The surface temperature exceeds 95 °C. To avoid a hazard, under bench access must be restricted. Refer to the installation instructions..

- p **7.12.3** *Insert* the following variation as a second paragraph to the addition:

In addition, if the **cooking range** is not provided with a **supply cord** fitted with a plug or an installation male connector, the instructions shall state the size of the **supply cord** that has to be used and shall include the substance of the following.

If this cooking range is to be connected to a new or upgraded electrical installation, then it must be connected to the supply by a supply cord fitted with:

- an appropriately rated plug that is compatible with the socket-outlet fitted to the final sub-circuit in the fixed wiring that supplies this cooking range; or
- an appropriately rated installation male connector that is compatible with the installation female connector fitted to the final sub-circuit in the fixed wiring that supplies this cooking range.

NOTE 301 This information need not be provided for **cooking ranges** that are intended to be fixed in position other than those that are fixed only by a stabilizing means in order to comply with the test of 20.101.

- p **7.15** After the second paragraph *insert* the following variation:

The caution specified in Clause 7.1 for **built-in hobs** shall be marked adjacent to the supply entry on the underside of the **hob**.

10 Power input and current

- p 10.1 The variation in the last paragraph of the test specification in Part 1 is not applicabl3.

11 Heating

- p **11.1** *Insert* the following variation as a second paragraph to the addition:

*For **hobs** compliance is also checked by the test of 11.301.*

- p **11.7** The variation in the second paragraph of the test specification in Part 1 is not applicable.

- p **11.8** The variation in the second paragraph of the test specification in Part 1 is not applicable.

- p **11.101** *Replace* the paragraph immediately before Table 102 with the following variation:

During the test, the temperature rise of surfaces shall not exceed the values specified in Table 102.

- p **11.301** After clause 11.101 *insert* the following variation:

11.301 **Hob elements other than induction hob elements are operated under conditions of normal operation except that:**

- *the vessel is not covered with a lid;*
- *the water in the vessel is maintained at a depth between 50 mm and 65 mm by the addition of boiling water if necessary;*
- *thermal controls are adjusted to the highest setting.*

*If the appliance contains more than one **hob element**, the test is carried out with the **hob element** resulting in the most unfavourable conditions.*

*The **hob element** is supplied at 1,15 times its power input measured at **rated voltage**. The test is continued for a period of 1 h or until steady conditions are established whichever is shorter.*

During the test the temperature rises shall not exceed the values specified in 11.8.

22 Construction

- p **22.202** After clause 22.137 *insert* the following variation:

22.202 This subclause in Part 1 is Not applicable.

- p **22.301** After clause 22.137 *insert* the following variations:

22.301 For appliances containing socket-outlets for general purpose use that are accessible to the user, the socket-outlet shall

- comply with AS/NZS 3112;
- have a current rating of 10 A; and
- accept a 3-pin, flat-pin plug as described in figure 2.1(a) of AS/NZS 3112.

Compliance is checked by inspection and the appropriate tests.

25 Supply connections and external flexible cords

- p **25** After the first paragraph, *insert* the following variation:

25.1 Addition:

Cooking ranges shall be provided with a **supply cord** fitted with a plug or an installation male connector, unless the instructions for installation make reference to the type and size of the **supply cord** and the rating of the plug or installation male connector, to be used for connecting the appliance to the supply mains.

**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 60584-1,		<i>Thermocouples – Part 1: EMF specifications and tolerances</i>		
IEC 60068-2-6:	2007	<i>Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)</i>		
IEC 60068-2-27:	2008	<i>Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock</i>		
IEC 60068-2-52:	1996	<i>Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)</i>		

NOTES

CONTENTS

FOREWORD	4
INTRODUCTION	7
1 Scope	8
2 Normative references.....	9
3 Terms and definitions.....	9
4 General requirement	13
5 General conditions for the tests	13
6 Classification.....	14
7 Marking and instructions	14
8 Protection against access to live parts	18
9 Starting of motor-operated appliances	18
10 Power input and current	18
11 Heating	19
12 Void.....	25
13 Leakage current and electric strength at operating temperature	25
14 Transient overvoltages.....	26
15 Moisture resistance.....	26
16 Leakage current and electric strength	27
17 Overload protection of transformers and associated circuits.....	28
18 Endurance.....	28
19 Abnormal operation	28
20 Stability and mechanical hazards.....	29
21 Mechanical strength.....	30
22 Construction.....	33
23 Internal wiring.....	41
24 Components	41
25 Supply connection and external flexible cords	42
26 Terminals for external conductors.....	42
27 Provision for earthing.....	42
28 Screws and connections	43
29 Clearances, creepage distances and solid insulation	43
30 Resistance to heat and fire.....	43
31 Resistance to rusting	43
32 Radiation, toxicity and similar hazards	44
Annexes.....	48
Annex R (normative) Software evaluation.....	48
Bibliography	49
Figure 101 – Vessel for testing hob elements	45
Figure 102 – Vessel for testing induction hob elements	45

Figure 103 – Load for testing rotating spits46
Figure 104 – Probe for measuring surface temperatures47
Figure 105 – Arrangement of work surface for spillage test on built-in ovens47

Table 101 – Quantity of liquid in the vessel10
Table 102 – Temperature rise limits for accessible surfaces option 123
Table 103 – Temperature rise limits for accessible surfaces option 224
Table 104 – Temperature rise limits for accessible surfaces option 324
Table 105 – Test loads32

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
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- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This part of International Standard IEC 60335 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This sixth edition cancels and replaces the fifth edition published in 2002 including its Amendment 1 (2004) and its Amendment 2 (2008). It constitutes a technical revision.

The principal changes in this edition as compared with the fifth edition of IEC 60335-2-6 are as follows (minor changes are not listed):

- introduction of requirements for steam ovens;
- introduction of requirements for ovens intended for use on ships;
- clarified requirements for oven shelve construction and test;

- introduction of optional values for the accessible surface temperatures of ovens;
- introduction of stabilising means including warnings;
- clarified representative periods for various appliances (Clause 10);
- introduction of a spillage test for built-in under-bench ovens.

The text of this standard is based on the following documents:

FDIS	Report on voting
61/4668/FDIS	61/4708/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fifth edition (2010) of that standard.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for stationary electric cooking ranges, hobs, ovens and similar 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 in Part 1 is to be adapted accordingly.

NOTE 2 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.

NOTE 3 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. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

The following differences exist in the countries indicated below.

- 6.1: **Class 0I appliances** are allowed (Japan).
- 7.12: The minimum indicated water pressure is 1 MPa (Norway).
- 24.101: Socket-outlets have to be provided with residual current devices which may be combined with the overcurrent protective device (Australia).
- 25.3: **Cooking ranges** that are not built-in shall not be permanently connected to the fixed wiring (New Zealand).

INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances

1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of **stationary electric cooking ranges, hobs, ovens** and similar appliances for household use, their **rated voltage** being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

This International Standard also includes some requirements for **ovens** that are intended to be used on board ships.

NOTE 101 Examples of appliances that are within the scope of this standard are

- **griddles;**
- **grills;**
- **induction hobs;**
- **induction wok elements;**
- **pyrolytic self-cleaning ovens;**
- **steam ovens.**

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
 - physical, sensory or mental capabilities; or
 - lack of experience and knowledgeprevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

NOTE 102 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;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

NOTE 103 This standard does not apply to

- appliances intended for commercial catering;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);