

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24026 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE:	21 October 2024
CLOSING DATE FOR COMMENT:	16 December 2024

DR 24026 CP

**AS/NZS 60335.2.6:2025**

**Household and similar electrical appliances – Safety –**

**Part 2.6: Particular requirements for stationary  
cooking ranges, hobs, ovens and similar appliances**

---

 **STANDARDS**  
Australia

 **STANDARDS  
NEW ZEALAND**  
TE MANA TAUTIKANGA O AOTEAROA

---

# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety –**

#### **Part 2.6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Comment on the proposal is invited from persons and organizations concerned with this subject.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

COMMENTATORS ARE ADVISED TO CAREFULLY CONSIDER THE TEXT IN THE NATIONAL VARIATIONS.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-6 ED 7, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

---

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24026.*

AS/NZS 60335.2.6:2025  
(IEC 60335-2-6 ED 7, MOD)

## 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 7, MOD)

---

Originated in Australia in part as C102 -1937  
Final Australian edition AS 3172 – 1990  
Originated in New Zealand as NZSS 1910:1965  
Previous edition AS/NZS 3172: 1996  
Jointly revised and redesignated AS/NZS 3350.2.6:1998  
Second edition AS/NZS 3350.2.6:2001  
Jointly revised and redesignated AS/NZS 60335.2.6:2002  
Second edition AS/NZS 60336.2.6:2008  
Jointly revised and redesignated AS/NZS 60335.2.6:2014  
Jointly revised and redesignated AS/NZS 60335.2.6:2025

#### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## AS/NZS 60335.2.6:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2.6: Particular requirements for stationary cooking ranges, hobs, ovens and similar  
appliances****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 60335.2.6:2014 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.6:2014 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 7, prepared by IEC Technical 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.

The principal changes in this edition as compared with the 2014 edition of AS/NZS 60335.2.6 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) deletion of notes (15.2) and conversion of notes to normative text (Clause 1, 3.1.9.101, 7.103, 11.7, 15.2, 16.2, 22.109, 22.120, 22.132, 22.124, Figure 103);
- c) application of test probe 19 (8.1.1, 20.2);
- d) alignment of limits on the temperature rise of external accessible surfaces (Clause 11);
- e) addition of requirements for automatic regulation systems and remote automatic regulation systems for induction hobs (3.7.103, 3.11.4, 3.11.5, 3.11.101, 7.12, 19.102, 22.40, 22.62, Annex AA);
- f) addition of requirements for remote operation of ovens (22.51).

This Standard is an adoption with national modifications of the seventh 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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

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 stationary cooking ranges, hobs, ovens and similar appliances are covered by this standard.

The national variations to IEC 60335-2-6 ED 7 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).

---

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

The text of the International Standard IEC 60335-2-6 ED 7 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 60335.1:2022.

## 2 Normative references

*Insert* the following variation:

*Approval and test specification—  
Residual current devices (current  
operated earth-leakage devices)*

3190

## 3 Terms and definitions

- p 3.1.12 *Add* the following variation:

Note AZ 101 to entry: The outlet load that can be connected to socket-outlets accessible to the user is 10 A

## 7 Marking and instructions

- p 7.1 *Insert* the following variations:

Appliance socket-outlets accessible to the user need not be marked with the **outlet load**.

**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**.

## 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 11.101 *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 103.*

- 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 **22.61** Add the following variation:

The socket-outlet

- shall have a current rating of 10 A;
- 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 60335.1:2022.

## 3 Terms and definitions

- p **3.1.12** Add the following variation:

Note AZ 101 to entry: The outlet load that can be connected to socket-outlets accessible to the user is 10 A

## 7 Marking and instructions

- p **7.1** Insert the following variations:

Appliance socket-outlets accessible to the user need not be marked with the **outlet load**.

**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:

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 subcircuit 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.

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**.

## 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 11.101 *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 103.*

- 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 22.61 *Add* the following variation:

The socket-outlet shall have a current rating of 10 A;

## 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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<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 60584-1		<i>Thermocouples – Part 1: EMF specifications and tolerances</i>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24027 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24027 CP

**AS/NZS 60335.2.12:2025**

**Household and similar electrical appliances – Safety –  
Part 2.12: Particular requirements for warming plates  
and similar appliances**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety –**

#### **Part 2.12: Particular requirements for warming plates and similar appliances**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-12 ED 6, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

---

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24027.*

AS/NZS 60335.2.12:2025  
(IEC 60335-2-12 ED 6, IDT)

## Australian/New Zealand Standard™

---

### **Household and similar electrical appliances – Safety –**

### **Part 2.12: Particular requirements for warming plates and similar appliances**

(IEC 60335-2-12 ED 6, IDT)

---

Originated in Australia in part as part of AS C105-1937.  
Final Australian edition AS 3172-1990  
Originated in New Zealand as part of NZS/AS 3172:1986.  
Final New Zealand edition NZS/AS 3172:1990  
Jointly revised and designated AS/NZS 3172:1993. Eighth edition 1996  
Jointly revised and redesignated in part as AS/NZS 3350.2.12:1997  
Jointly revised and redesignated AS/NZS 60335.2.12:2004  
Jointly revised and redesignated AS/NZS 60335.2.12:2018  
Jointly revised and designated AS/NZS 60335.2.12:2025

#### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## AS/NZS 60335.2.12:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2.12: Particular requirements for warming plates and similar appliances****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 60335.2.12:2018 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.12:2018 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 60335-2-12 ED 6, prepared by IEC Technical 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.

The principal changes in this edition as compared with the 2018 edition of AS/NZS 60335.2.12 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) conversion of some notes to normative text (Clause 1, 5.2, 7.12, 15.2, 15.101, 24.1.5);
- c) application of test probe 19 (8.1.1, 20.2, B.22.3, B.22.4);
- d) clarification of applicability of requirements for remote operation (22.40, 22.49, 22.51).

This Standard is an adoption with national modifications of the sixth edition of IEC 60335-2-12, *Household and similar electrical appliances – Safety – Part 2-12: Particular requirements for warming plates 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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

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 warming plates and similar appliances are covered by this standard.

The national variations to IEC 60335-2-12 ED 6 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).

---

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



The text of the International Standard IEC 60335-2-12 ED 6 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 60335.1:2022

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

There are no national variations to this Part 2 other than those listed in the national variations in AS/NZS 60335.1:2022

DRAFT ONLY

## 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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>AS/NZS</u>	<u>Year</u>
IEC 60320-1	2021	<i>Appliance couplers for household and similar purposes – Part 1: General requirements</i>		
IEC 60584-1		<i>Thermocouples – Part 1: EMF specifications and tolerances</i>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical  
Appliances and Small Power Transformers

DR 24028 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE:	21 October 2024
CLOSING DATE FOR COMMENT:	16 December 2024

DR 24028 CP

**AS/NZS 60335.2.25:2025**

**Household and similar electrical appliances – Safety –**

**Part 2.25: Particular requirements for microwave  
ovens, including combination microwave ovens**



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety –**

#### **Part 2.25: Particular requirements for microwave ovens, including combination microwave ovens**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-25 ED 8, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

---

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24028.*

AS/NZS 60335.2.25:2025  
(IEC 60335-2-25 ED 8, IDT)

## Australian/New Zealand Standard™

---

### **Household and similar electrical appliances – Safety –**

### **Part 2.25: Particular requirements for microwave ovens, including combination microwave ovens**

(IEC 60335-2-25 ED 8, IDT)

---

Originated in Australia in part as AS 3301 - 1978  
Originated in New Zealand as NZS 6325:1992  
Final Australian edition AS 3301 - 1992  
Jointly revised and redesignated AS/NZS 3350.2.25:1997  
Second edition AS/NZS 3350.2.25:2001  
Jointly revised and redesignated AS/NZS 60335.2.25:2002  
Second edition AS/NZS 60335.2.25:2011  
Jointly revised and designated AS/NZS 60335.2.25:2020  
Jointly revised and designated AS/NZS 60335.2.25:2025

#### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## AS/NZS 60335.2.25:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2.25: Particular requirements for microwave ovens, including combination microwave  
ovens****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 60335.2.25:2020 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.25:2020 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 60335-2-25 ED 8, prepared by IEC Technical 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 2020 edition of AS/NZS 60335.2.25 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) some subclauses have been modified for the appliance outlets and socket-outlets;
- c) Subclause 7.12 has been improved in clarity; addition of accessible surface temperature limits (11.3, 11.8);
- d) Subclauses 8.1.1 and 20.2 have been modified to adopt test probe 19;
- e) Subclauses 10.1 and 10.2 have been improved in clarity for inverter type microwave ovens;
- f) maximum temperature rises of external accessible surfaces have been added in Subclause 11.8;
- g) test criterion has been modified in Subclause 15.101;
- h) Subclause 15.102 has been modified for harmonization with IEC 60335-2-6;
- i) h) Subclauses 8.1.3, 15.103, 19.11.2, 19.13, 22.105, 22.106, 22.111 and Figure 101 have been improved in clarity;
- j) Subclauses 22.103.2, 22.105 and 22.120 have been modified to adopt test probe 18;
- k) Subclause 16.101 has been modified to move the content of 16.101.1, 16.101.2 directly under 16.101;
- l) Subclause 22.119 has been modified to move the content of 22.119.1, 22.119.2 and 22.119.3 directly under 22.119.

This Standard is an adoption with national modifications of the eighth edition of IEC 60335-2-25, *Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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 microwave ovens, including combination 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. When a definition concerns an adjective, the adjective and associated noun are also in bold.

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 microwave ovens, including combination microwave ovens are covered by this standard.

The national variations to IEC 60335-2-25 ED 8 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).

---

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



The text of the International Standard IEC 60335-2-25 ED 8 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 60335.1:2022

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

There are no national variations to this Part 2 other than those listed in the national variations in AS/NZS 60335.1:2022

DRAFT ONLY

## 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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<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: 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 60584-1		<i>Thermocouples – Part 1: EMF specifications and tolerances</i>		
IEC 60335-2-6 (MOD)	2024	<i>Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances</i>	60335.2.6	2025
IEC 60335-2-9		<i>Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances</i>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24029 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE:	21 October 2024
CLOSING DATE FOR COMMENT:	16 December 2024

DR 24029 CP

**AS/NZS 60335.2.26:2025**

**Household and similar electrical appliances –  
Safety –**

**Part 2.26: Particular requirements for clocks**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety –**

#### **Part 2.26: Particular requirements for clocks**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-26 ED 5, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

---

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24029.*

AS/NZS 60335.2.26:2025  
(IEC 60335-2-26 ED 5, IDT)

Australian/New Zealand Standard™

---

**Household and similar electrical  
appliances – Safety –**

**Part 2.26: Particular requirements  
for clocks**

(IEC 60335-2-26 ED 5, IDT)

---

Originated as AS/NZS 3350.2.26:1996 Jointly revised and redesignated AS/NZS 60335.2.26:2006 Jointly revised and redesignated AS/NZS 60335.2.26:2025
---

**COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## AS/NZS 60335.2.26:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2.26: Particular requirements for clocks****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 60335.2.26:2006 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.26:2006 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 60335-2-26 ED 5, prepared by IEC Technical 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.

The principal changes in this edition as compared with the 2006 edition of AS/NZS 60335.2.26 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) conversion of some notes to normative text (Clause 1);
- c) application of test probe 19 (8.1.1, 20.2, B.22.3, B.22.4);
- d) introduction of limits on the temperature rise of external accessible surfaces (Clause 11).

This Standard is an adoption with national modifications of the third edition of IEC 60335-2-26, *Household and similar electrical appliances – Safety – Part 2-26: Particular requirements for clocks*. 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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 clocks.

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

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 clocks are covered by this standard.

The national variations to IEC 60335-2-26 ED 5 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).

---

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



The text of the International Standard IEC 60335-2-26 ED 5 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 60335.1:2022

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

There are no national variations to this Part 2 other than those listed in the national variations in AS/NZS 60335.1:2022

DRAFT ONLY

## 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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<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>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24031 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24031 CP

**AS/NZS 60335.2.90:2025**

**Household and similar electrical appliances – Safety –  
Part 2.90: Particular requirements for commercial  
microwave ovens**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety –**

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

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-90 ED 5, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

---

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24031.*

AS/NZS 60335.2.90:2025  
(IEC 60335-2-90 ED 5, IDT)

Australian/New Zealand Standard™

---

**Household and similar electrical  
appliances – Safety –**

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

(IEC 60335-2-90 ED 5, IDT)

---

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 Jointly revised and designated AS/NZS 60335.2.90:2025
---

**COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## AS/NZS 60335.2.90:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2.90: Particular requirements for commercial microwave ovens****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 60335.2.90:2017 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.90:2017 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 5, prepared by IEC Technical 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 2017 edition of AS/NZS 60335.2.90 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) the appliance used in area open to the public has been introduced in Clause 1, 3.8.107, 7.12, 8.1.1, 11.8, 20.2, 22.103.2, 22.105 and 22.117;
- c) Subclauses 5.5, 7.12.1, 11.2, 11.7, 20.1 and 20.101 have been modified to add for stacking installation;
- d) Subclauses 7.1, 11.7 and 22.61 have been modified for the appliance outlets and socket outlets;
- e) Subclause 7.12 has been improved in clarity;
- f) maximum temperature rises of external accessible surfaces have been added in Subclause 11.8;
- g) test criterion has been modified in Subclause 15.101;
- h) Subclause 16.101 has been modified to move the content of 16.101.1, 16.101.2 directly under 16.101.
- i) Subclauses 19.11.2, 19.13, Clause 21, Subclauses 22.105, 22.111 and Annex AA have been improved in clarity;
- j) Annex BB and Annex EE have been modified to add screw requirements

This Standard is an adoption with national modifications of the fifth 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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

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 5 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).

---

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



The text of the International Standard IEC 60335-2-90 ED 5 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 60335.1:2022

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

There are no national variations to this Part 2 other than those listed in the national variations in AS/NZS 60335.1:2022

DRAFT ONLY

## 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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<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: 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 60335-2-36		<i>Household and similar electrical appliances – Safety – Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements</i>		
IEC 60335-2-42		<i>Household and similar electrical appliances – Safety – Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam convection ovens</i>		
IEC 60335-2-49		<i>Household and similar electrical appliances – Safety – Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm</i>		
IEC 60335-2-75		<i>Household and similar electrical appliances – Safety – Part 2-75: Particular requirements for commercial dispensing appliances and vending machines</i>		

IEC 60436:2015 IEC 60436:2015 /AMD1:2020	<i>Electric dishwashers for household use – Methods for measuring the performance</i>
IEC 60584-1	<i>Thermocouples – Part 1: EMF specifications and tolerances</i>
ISO 898-1,	<i>Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes – Coarse thread and fine pitch thread</i>
ISO 3506-1	<i>Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grades and property classes</i>
ISO 3506-2	<i>Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts with specified grades and property classes</i>
ISO 3506-3	<i>Mechanical properties of corrosion- resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress</i>
ISO 3506-4	<i>Mechanical properties of corrosion- resistant stainless steel fasteners – Part 4: Tapping screws</i>

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24032 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24032 CP

**AS/NZS 60335.2.108:2025**

**Household and similar electrical appliances – Safety –  
Part 2.108: Particular requirements for electrolyzers**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety –**

#### **Part 2.108: Particular requirements for electrolyzers**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-108 ED 2, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

---

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24032.*

AS/NZS 60335.2.108:2025  
(IEC 60335-2-108 ED 2, MOD)

Australian/New Zealand Standard™

---

**Household and similar electrical  
appliances – Safety –**

**Part 2.108: Particular  
requirements for electrolyzers**

(IEC 60335-2-108 ED 2, MOD)

---

Originated as AS/NZS 60335.2.108:2008 Jointly revised and redesignated AS/NZS 60335.2.108:2025
---

**COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.108:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2.108: Particular requirements for electrolyzers****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 60335.2.108:2008 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.108:2008 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 60335-2-108 ED 2, prepared by IEC Technical 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.

The principal changes in this edition as compared with the 2008 edition of AS/NZS 60335.2.108 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) some notes have been converted to normative text (Clause 1, 22.012);
- c) application of test probe 19 has been introduced (8.1.1, 20.2, B22.3, B22.4);
- d) addition of external accessible surface temperatures (Clause 11).

This Standard is an adoption with national modifications of the second edition of IEC 60335-2-108, *Household and similar electrical appliances – Safety – Part 2-108: Particular requirements for electrolyzers*. 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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 electrolyzers.

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

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 electrolyzers are covered by this standard.

The national variations to IEC 60335-2-108 ED 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).

---

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

The text of the International Standard IEC 60335-2-108 ED 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 of AS/NZS 60335.1:2022.

#### 6 Classification

- p 6.1 *Replace the text of the modification by the following variation:*

**Electrolysers** shall be of **class I**, **class II** or **class III**.

### NEW ZEALAND NATIONAL VARIATIONS

The following national variations to this Part 2 are additional to those listed in the national variations of AS/NZS 60335.1:2022.

#### 6 Classification

- p 6.1 *Replace the text of the modification by the following variation:*

**Electrolysers** shall be of **class I**, **class II** or **class III**.

## 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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>AS/NZS</u>	<u>Year</u>
IEC 60068-2-52		<i>Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)</i>		
IEC 60079-15		<i>Explosive atmospheres – Part 15: Equipment protection by type of protection "n"</i>		
IEC 60584-1		<i>Thermocouples – Part 1: EMF specifications and tolerances</i>		
ISO 1817	2022	<i>Rubber, vulcanized or thermoplastic– Determination of the effect of liquids</i>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24033 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24033 CP

**AS/NZS 60335.2.110:2025**

**Household and similar electrical appliances – Safety –**

**Part 2.110: Particular requirements for commercial  
microwave appliances with insertion or contacting  
applicators**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety –**

#### **Part 2.110: Particular requirements for commercial microwave appliances with insertion or contacting applicators**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-110 ED 2, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx.

---

The following interests are represented on Committee EL-002

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24033.*

AS/NZS 60335.2.110:2025  
(IEC 60335-2-110 ED 2, IDT)

Australian/New Zealand Standard™

---

**Household and similar electrical  
appliances – Safety –**

**Part 2.110: Particular  
requirements for commercial  
microwave appliances with  
insertion or contacting applicators**

(IEC 60335-2-110 ED 2, IDT)

---

Originated in Australia and New Zealand as AS/NZS 60335.2.110:2014 Jointly revised and designated AS/NZS 60335.2.110:2025
--

**COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## AS/NZS 60335.2.110:2025

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2.110: Particular requirements for commercial microwave appliances with insertion or  
contacting applicators****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 60335.2.110:2014 three years from the date of publication of this Standard. During this period AS/NZS 60335.2.110:2014 and its amendments will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 60335-2-110 ED 2, prepared by IEC Technical 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 2014 edition of AS/NZS 60335.2.110 are as follows (minor changes are not listed):

- a) alignment with AS/NZS 60335.1:2022;
- b) Subclause 7.1 has been improved in clarity.
- c) Subclauses 19.11.2 and 19.103 have been improved in clarity
- d) Clause 28 has been modified to add screw requirements

This Standard is an adoption with national modifications of the second edition of IEC 60335-2-110, *Household and similar electrical appliances – Safety – Part 2-110: Particular requirements for commercial microwave appliances with insertion or contacting applicators*. 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, unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of AS/NZS 60335.1:2022.

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 appliances with insertion or contacting applicators.

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

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 appliances with insertion or contacting applicators are covered by this standard.

The national variations to IEC 60335-2-110 ED 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).

---

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

The text of the International Standard IEC 60335-2-110 ED 2 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 60335.1:2022

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

There are no national variations to this Part 2 other than those listed in the national variations in AS/NZS 60335.1:2022

DRAFT ONLY

## 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 publication 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. Where there is no equivalent international publication listed to a listed Australia/New Zealand publication, then the Australia/New Zealand publication applies

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>AS/NZS</u>	<u>Year</u>
IEC 60335-2-90		<i>Household and similar electrical appliances – Safety – Part 2-90: Particular requirements for commercial microwave ovens</i>		
ISO 898-1,		<i>Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes – Coarse thread and fine pitch thread</i>		
ISO 3506-1		<i>Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grades and property classes</i>		
ISO 3506-2		<i>Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts with specified grades and property classes</i>		
ISO 3506-3		<i>Mechanical properties of corrosion-resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress</i>		
ISO 3506-4		<i>Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws</i>		
ISO 3864-1		<i>Graphical symbols – Safety colours and safety signs – Part 1: Design</i>		

*principles for safety signs and safety markings*

ISO 7010

*Graphical symbols – Safety colours and safety signs – Registered safety signs*

DRAFT ONLY

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24034 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24034 CP

**AS/NZS 61558.2.8:2025**

**Safety of transformers, reactors, power supply  
units and combinations thereof –  
Part 2.8: Particular requirements and tests for  
transformers and power supply units for bells  
and chimes**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Safety of transformers, reactors, power supply units and combinations thereof –**

#### **Part 2.8: Particular requirements and tests for transformers and power supply units for bells and chimes**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 61558-2-8 ED 3, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx.

It was published on xxxxxxxx 2025.

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at [www.standards.org.au](http://www.standards.org.au) or Standards New Zealand web site at [www.standards.govt.nz](http://www.standards.govt.nz).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organization.

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 comment to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

AS/NZS 61558.2.8:2025  
(IEC 61558-2-8 Ed 3, IDT)

## Australian/New Zealand Standard™

---

### **Safety of transformers, reactors, power supply units and combinations thereof –**

### **Part 2.8: Particular requirements and tests for transformers and power supply units for Bells and chimes**

---

Originated, in part, in Australia as AS C126-1939  
Second edition C126 – 1958  
Revised and redesignated AS 3126 – 1981 (withdrawn 1989)  
Originated, in part, in Australia as AS C167-1962  
Revised and redesignated AS 3167 – 1981 (withdrawn 1987)  
AS 3126 – 1981 and AS 3167 – 1981 were revised and redesignated AS 3108.1-1984,  
AS 3108.2-1984 and AS 3108.3 – 1984  
Revised, amalgamated and redesignated AS 3108 – 1990  
First published in New Zealand as NZS/AS 3108:1990  
Jointly revised and redesignated AS/NZS 3108:1994  
Jointly revised and redesignated, in part, as AS/NZS 61558.2.8:2001  
Second edition AS/NZS 61558.2.8:2011  
Jointly revised and redesignated as AS/NZS 61558.2.8:2025

#### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxxx



## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

---

AS/NZS 61558.2.8:2025**Safety of transformers, reactors, power supply units and combinations thereof –****Part 2.8: Particular requirements and tests for transformers and power supply units for Bells and chimes****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 61558.2.8:2011 and its amendments three years from the date of its publication. During this period it is anticipated that regulatory authorities will approve transformers and power supply units for Bells and chimes 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 61558-2-8 Ed 3, prepared by IEC Technical Committee TC 96, 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 2011 edition of AS/NZS 61558.2.8 are as follows (minor changes are not listed):

- a) adjustment of structure and references in accordance with AS/NZS 61558.1:2018;
- b) new symbol for power supply unit with linearly regulated output voltage.

This Standard is an adoption with national modifications of the third edition of IEC 61558-2-8 *Safety of transformers, reactors, power supply units and combinations thereof – Part 2-8 Particular requirements and tests for transformers and power supply units for Bells and chimes*. 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 61558.1 *Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests* and its Amendments. It was established on the basis of AS/NZS 61558.1:2018.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 61558.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements and tests for transformers and power supply units for Bells and chimes.

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.

DRAFT ONLY

The essential safety requirements in AS/NZS 3820<sup>1</sup> that could be applicable to requirements and tests for transformers and power supply units for Bells and chimes are covered by this standard.

The national variations to IEC 61558-2-8 Ed 3 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).

---

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

The text of the International Standard IEC 61558-2-8 Ed 3 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 61558.1:2018.

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

There are no national variations to this part 2 other than those listed in the national variations in AS/NZS 61558.1:2018.

DRAFT ONLY

## 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 61558-1 (mod)	2017	<i>Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests</i>	61558.1	2018
IEC 61558-2-16	2021	<i>Safety of transformers, reactors, power supply units and combinations thereof – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications</i>	61558.2.16	2022

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24035 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24035 CP

**AS/NZS 61558.2.9:2025**

**Safety of transformers, reactors, power supply  
units and combinations thereof –  
Part 2.9: Particular requirements and tests for  
transformers and power supply units for Class  
III handlamps**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Safety of transformers, reactors, power supply units and combinations thereof –**

#### **Part 2.9: Particular requirements and tests for transformers and power supply units for Class III handlamps**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 61558-2-9 ED 3, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 xxxxxxxx and by the New Zealand Standards Approval Board on xxxxxxxx.

It was published on xxxxxxxx 2025.

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at [www.standards.org.au](http://www.standards.org.au) or Standards New Zealand web site at [www.standards.govt.nz](http://www.standards.govt.nz).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organization.

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 comment to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.



AS/NZS 61558.2.9:2025  
(IEC 61558-2-9 Ed 3, IDT)

## Australian/New Zealand Standard™

### **Safety of transformers, reactors, power supply units and combinations thereof –**

### **Part 2.9: Particular requirements and tests for transformers and power supply units for Class III handlamps**

Originated, in part, in Australia as AS C126-1939  
Second edition C126 – 1958  
Revised and redesignated AS 3126 – 1981 (withdrawn 1989)  
Originated, in part, in Australia as AS C167-1962  
Revised and redesignated AS 3167 – 1981 (withdrawn 1987)  
AS 3126 – 1981 and AS 3167 – 1981 were revised and redesignated AS 3108.1-1984,  
AS 3108.2-1984 and AS 3108.3 – 1984  
Revised, amalgamated and redesignated AS 3108 – 1990  
First published in New Zealand as NZS/AS 3108:1990  
Jointly revised and redesignated AS/NZS 3108:1994  
Jointly revised and redesignated, in part, as AS/NZS 61558.2.9:2003  
Second edition AS/NZS 61558.2.9:2011  
Jointly revised and redesignated as AS/NZS 61558.2.9:2025

#### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

---

AS/NZS 61558.2.9:2025**Safety of transformers, reactors, power supply units and combinations thereof –****Part 2.9: Particular requirements and tests for transformers and power supply units for Class III handlamps**

## 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 61558.2.9:2011 and its amendments for tungsten filament lamps three years from the date of its publication. During this period it is anticipated that regulatory authorities will approve transformers and power supply units for Class III handlamps for tungsten filament lamps to either standard. For transformers and power supply units for Class III handlamps, excluding tungsten filament lamps, this standard is applicable 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 61558-2-9 Ed 3, prepared by IEC Technical Committee TC 96, 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 2011 edition of AS/NZS 61558.2.9 are as follows (minor changes are not listed):

- a) adjustment of structure and references in accordance with AS/NZS 61558.1:2018;
- b) new symbol for power supply unit with linearly regulated output voltage;
- c) document is not only valid for transformers for tungsten filament handlamps.

This Standard is an adoption with national modifications of the third edition of IEC 61558-2-9 *Safety of transformers, reactors, power supply units and combinations thereof – Part 2-9 Particular requirements and tests for transformers and power supply units for Class III handlamps*. 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 61558.1 *Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests* and its Amendments. It was established on the basis of AS/NZS 61558.1:2018.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 61558.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements and tests for transformers and power supply units for Class III handlamps.

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.

DRAFT ONLY

The essential safety requirements in AS/NZS 3820<sup>1</sup> that could be applicable to requirements and tests for transformers and power supply units for Class III handlamps are covered by this standard.

The national variations to IEC 61558-2-9 Ed 3 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).

---

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

The text of the International Standard IEC 61558-2-9 Ed 3 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 61558.1:2018.

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

There are no national variations to this part 2 other than those listed in the national variations in AS/NZS 61558.1:2018.

DRAFT ONLY

## 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 60245-4	2011	<i>Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 4: Cords and flexible cables</i>	60245.4	2020
IEC 61558-1 (mod)	2017	<i>Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests</i>	61558.1	2018
IEC 61558-2-16	2021	<i>Safety of transformers, reactors, power supply units and combinations thereof – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications</i>	61558.2.16	2022

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24036 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24036 CP

**AS/NZS 61558.2.23:2025**

**Safety of transformers, reactors, power supply  
units and combinations thereof –  
Part 2.23: Particular requirements and tests for  
transformers and power supply units for  
construction sites**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

**DRAFT  
Australian/New Zealand Standard**

**Safety of transformers, reactors,  
power supply units and combinations thereof –**

**Part 2.23: Particular requirements and tests for  
transformers and power supply units for construction sites**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

## **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 61558-2-23 ED 3, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).



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 xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx.

It was published on xxxxxxxx 2025.

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at [www.standards.org.au](http://www.standards.org.au) or Standards New Zealand web site at [www.standards.govt.nz](http://www.standards.govt.nz).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organization.

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 comment to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

AS/NZS 61558.2.23:2025  
(IEC 61558-2-23 Ed 3, IDT)

## Australian/New Zealand Standard™

---

### **Safety of transformers, reactors, power supply units and combinations thereof –**

### **Part 2.23: Particular requirements and tests for transformers and power supply units for construction sites**

---

First edition AS/NZS 61558.2.23:2001  
Second edition AS/NZS 61558.2.23:2011  
Jointly revised and redesignated as AS/NZS 61558.2.23:2025

#### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

---

AS/NZS 61558.2.23:2025**Safety of transformers, reactors, power supply units and combinations thereof –****Part 2.23: Particular requirements and tests for transformers and power supply units for Construction sites****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 61558.2.23:2011 and its amendments three years from the date of its publication. During this period it is anticipated that regulatory authorities will approve transformers and power supply units for Construction sites 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 61558-2-23 Ed 3, prepared by IEC Technical Committee TC 96, 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 2011 edition of AS/NZS 61558.2.23 are as follows (minor changes are not listed):

- a) adjustment of structure and references in accordance with AS/NZS 61558.1:2018;
- b) new symbol for power supply unit with linearly regulated output voltage;

This Standard is an adoption with national modifications of the third edition of IEC 61558-2-23 *Safety of transformers, reactors, power supply units and combinations thereof – Part 2-23 Particular requirements and tests for transformers and power supply units for Construction sites*. 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 61558.1 *Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests* and its Amendments. It was established on the basis of AS/NZS 61558.1:2018.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 61558.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements and tests for transformers and power supply units for Construction sites.

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.

DRAFT ONLY

The essential safety requirements in AS/NZS 3820<sup>1</sup> that could be applicable to requirements and tests for transformers and power supply units for Construction sites are covered by this standard.

The national variations to IEC 61558-2-23 Ed 3 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).

---

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

The text of the International Standard IEC 61558-2-23 Ed 3 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 61558.1:2018.

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

There are no national variations to this part 2 other than those listed in the national variations in AS/NZS 61558.1:2018.

DRAFT ONLY

## 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 60068-2-27	2008	<i>Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock</i>		
IEC 60245-4	2011	<i>Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 4: Cords and flexible cables</i>	60245.4	2020
IEC 61558-1 (mod)	2017	<i>Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests</i>	61558.1	2018

COMMITTEE: EL-002  
Safety of Household and Similar Electrical  
Appliances and Small Power Transformers

DR 24037 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE:	21 October 2024
CLOSING DATE FOR COMMENT:	16 December 2024

DR 24037 CP

**AS/NZS 62841.2.16:2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –**

**Part 2.16: Particular requirements for hand-held  
fastener driving tools**

---





# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –**

#### **Part 2.16 : Particular requirements for hand-held fastener driving tools**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-2-16 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24037.*

AS/NZS 62841.2.16:2025  
(IEC 62841-2-16 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 2.16: Particular requirements for  
hand-held fastener driving tools

---

Originated in Australia as AS C160-1959.  
Previous edition AS/NZS 3160:1996.  
Jointly revised and redesignated in part as AS/NZS 60745.2.16:2009  
Jointly revised and redesignated as AS/NZS 62841.2.16 :2025

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.2.16:2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE  
TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 2.16: Particular requirements for hand-held fastener driving tools****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 60745.2.16:2009, in part, three years from the date of publication of this Standard. During this period AS/NZS 60745.2.16:2009 will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 62841-2-16 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-2-16 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-16 Particular requirements for hand-held fastener driving tools*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for hand-held fastener driving tools.

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 hand-held fastener driving tools are covered by this standard.

The national variations to IEC 62841-2-16 Ed 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).

---

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

The text of the International Standard IEC 62841-2-16 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

## 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 60664-3		<i>Insulation coordination for equipment within low-voltage systems – Part 3: Use of coating, potting or moulding for protection against pollution</i>		
IEC 60664-4		<i>Insulation coordination for equipment within low-voltage systems – Part 4: Consideration of high-frequency voltage stress</i>		
IEC 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015
ISO 630-2	2021	<i>Structural steels – Part 2: Technical delivery conditions for structural steels for general purposes</i>		
ISO 28927	2022	<i>Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 13: Fastener driving tools</i>		
EN 12549	1999	<i>Acoustics – Noise test code for fastener driving tools – Engineering method</i>		
EN 15895	2011	<i>Cartridge operated hand-held tools – Safety requirements – Fixing and hard marking tools</i>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical  
Appliances and Small Power Transformers

DR 24038 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24038 CP

**AS/NZS 62841.2.18:2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –**

**Part 2.18: Particular requirements for hand-held  
strapping tools**

---





# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –**

#### **Part 2.18 : Particular requirements for hand-held strapping tools**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-2-18 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24038.*

AS/NZS 62841.2.18:2025  
(IEC 62841-2-18 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 2.18: Particular requirements for  
hand-held strapping tools

---

Originated in Australia as AS C160-1959.  
Previous edition AS/NZS 3160:1996.  
Jointly revised and redesignated in part as AS/NZS 60745.2.18:2003  
Jointly revised and redesignated as AS/NZS 60745.2.18:2009  
Jointly revised and redesignated as AS/NZS 62841.2.18 :2025

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.2.18:2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE  
TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 2.18: Particular requirements for hand-held strapping tools****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 60745.2.18:2009, in part, three years from the date of publication of this Standard. During this period AS/NZS 60745.2.18:2009 will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 62841-2-18 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-2-18 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-18 Particular requirements for hand-held strapping tools*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for hand-held strapping tools.

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 hand-held strapping tools are covered by this standard.

The national variations to IEC 62841-2-18 Ed 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).

---

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

The text of the International Standard IEC 62841-2-18 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

## 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 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24039 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24039 CP

**AS/NZS 62841.2.19:2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –**

**Part 2.19: Particular requirements for hand-held  
jointers**

---





# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –**

#### **Part 2.19 : Particular requirements for hand-held jointers**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-2-19 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24039.*

AS/NZS 62841.2.19:2025  
(IEC 62841-2-19 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 2.19: Particular requirements for  
hand-held jointers

---

Originated in Australia as AS C160-1959.  
Previous edition AS/NZS 3160:2001.  
Jointly revised and redesignated in part as AS/NZS 60745.2.19:2005  
Jointly revised and redesignated as AS/NZS 60745.2.19 :2011  
Jointly revised and redesignated as AS/NZS 62841.2.19 :2025

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by The New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.2.19:2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE  
TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 2.19: Particular requirements for hand-held jointers****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 60745.2.19:2011, in part, three years from the date of publication of this Standard. During this period AS/NZS 60745.2.19:2011 will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 62841-2-19 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-2-19 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-19 Particular requirements for hand-held jointers*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for hand-held jointers.

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 hand-held jointers are covered by this standard.

The national variations to IEC 62841-2-19 Ed 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).

---

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

The text of the International Standard IEC 62841-2-19 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

## 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 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24040 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24040 CP

**AS/NZS 62841.2.20:2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –**

**Part 2.20: Particular requirements for hand-held  
band saws**

---





**COMBINED DRAFT FOR COMMENT/POSTAL BALLOT  
STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

**DRAFT  
Australian/New Zealand Standard**

**Electric motor-operated hand-held tools, transportable tools and lawn and  
garden machinery – Safety –  
Part 2.20 : Particular requirements for hand-held band saws**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

**NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-2-20 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24040.*

AS/NZS 62841.2.20:2025  
(IEC 62841-2-20 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 2.20: Particular requirements for  
hand-held band saws

---

Originated in Australia as AS C160-1959.  
Previous edition AS/NZS 3160:1996.  
Jointly revised and redesignated in part as AS/NZS 60745.2.20:2003  
Jointly revised and redesignated as AS/NZS 62841.2.20 :2009  
Jointly revised and redesignated as AS/NZS 62841.2.20 :2024

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by The New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.2.20:2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE  
TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 2.20: Particular requirements for hand-held band saws****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 60745.2.20:2009, in part, three years from the date of publication of this Standard. During this period AS/NZS 60745.2.20:2009 will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 62841-2-20 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-2-20 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-20 Particular requirements for hand-held band saws*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for hand-held band saws.

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 hand-held band saws are covered by this standard.

The national variations to IEC 62841-2-20 Ed 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).

---

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

The text of the International Standard IEC 62841-2-20 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

**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 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24041 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE:	21 October 2024
CLOSING DATE FOR COMMENT:	16 December 2024

DR 24041 CP

**AS/NZS 62841.2.23:2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –**

**Part 2.23: Particular requirements for hand-held  
die grinders and small rotary tools**

---





**COMBINED DRAFT FOR COMMENT/POSTAL BALLOT  
STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

**DRAFT  
Australian/New Zealand Standard**

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –  
Part 2.23 : Particular requirements for hand-held die grinders and small rotary tools**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

**NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-2-23 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 Standards Australia's Standards Development and Accreditation Committee on xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx. It was published on xxxxxxxx

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current standard, which should include any amendments which may have been published since the standard was purchased.

For more information about joint standards, visit [www.standards.govt.nz](http://www.standards.govt.nz) or [www.standards.org.au](http://www.standards.org.au).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organisation.

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 comment to either the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

---

*This standard was issued in draft form for comment as DR 24041.*

AS/NZS 62841.2.23:2025  
(IEC 62841-2-23 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 2.23: Particular requirements for  
hand-held die grinders and small rotary  
tools

---

Originated as AS/NZS 60745.2.23 :2013  
Jointly revised and redesignated as AS/NZS 62841.2.23 :2025

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.2.23:2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 2.23: Particular requirements for hand-held die grinders and small rotary tools****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 60745.2.23:2013, in part, three years from the date of publication of this Standard. During this period AS/NZS 60745.2.23:2013 will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 62841-2-23 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-2-23 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-23 Particular requirements for hand-held die grinders and small rotary tools*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for hand-held die grinders and small rotary tools.

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 hand-held die grinders and small rotary tools are covered by this standard.

The national variations to IEC 62841-2-23 Ed 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).

---

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

The text of the International Standard IEC 62841-2-23 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

## 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 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24042 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24042 CP

**AS/NZS 62841.3.3:2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –**

**Part 3.3: Particular requirements for  
transportable planers and thicknessers**

---





# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3.3: Particular requirements for transportable planers and thicknessers**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-3-3 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx.

It was published on xxxxxxxx 2025.

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at [www.standards.org.au](http://www.standards.org.au) or Standards New Zealand web site at [www.standards.govt.nz](http://www.standards.govt.nz).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organization.

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 comment to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

AS/NZS 62841.3.3:2025  
(IEC 62841-3-3 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 3.3: Particular requirements for  
transportable planers and thicknessers

---

Originated as AS/NZS 62841.3.3:2025.

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

## AS/NZS 62841.3.3:2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE  
TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 3.3: Particular requirements for transportable planers and thicknessers****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.

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 62841-3-3 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-3-3 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-3 Particular requirements for transportable planers and thicknessers*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for transportable planers and thicknessers.

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 transportable planers and thicknessers are covered by this standard.

The national variations to IEC 62841-3-3 Ed 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).

---

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

The text of the International Standard IEC 62841-3-3 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

## 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 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015
ISO 180	2023	<i>Plastics – Determination of Izod impact strength</i>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24043 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24043 CP

**AS/NZS 62841.3.11 :2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –  
Part 3.11 : Particular requirements for  
transportable combined mitre and bench saws**

---





# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –**

#### **Part 3.11 : Particular requirements for transportable combined mitre and bench saws**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

#### **NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-3-11 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx.

It was published on xxxxxxxx 2025.

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at [www.standards.org.au](http://www.standards.org.au) or Standards New Zealand web site at [www.standards.govt.nz](http://www.standards.govt.nz).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organization.

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 comment to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

AS/NZS 62841.3.11:2025  
(IEC 62841-3-11 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 3.11 : Particular requirements for  
transportable combined mitre and  
bench saws

---

Originated as AS/NZS 62841.3.11:2025.

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.3.11 :2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 3.11 : Particular requirements for transportable combined mitre and bench saws****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.

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 62841-3-11 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-3-11 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-11 Particular requirements for transportable combined mitre and bench saws*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for transportable combined mitre and bench saws .

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 transportable combined mitre and bench saws are covered by this standard.

The national variations to IEC 62841-3-11 Ed 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).

---

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

The text of the International Standard IEC 62841-3-11 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

## 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 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015
ISO 180	2023	<i>Plastics – Determination of Izod impact strength</i>		

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24044 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24044 CP

**AS/NZS 62841.3.15 :2025**

**Electric motor-operated hand-held tools,  
transportable tools and lawn and garden  
machinery – Safety –**

**Part 3.15 : Particular requirements for  
transportable magnetic drills**

---





**COMBINED DRAFT FOR COMMENT/POSTAL BALLOT  
STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

**DRAFT  
Australian/New Zealand Standard**

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety –  
Part 3.15 : Particular requirements for transportable magnetic drills**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

**NOTES OF THE SECRETARY:**

THE INTRODUCTION OF ANY NATIONAL VARIATIONS TO BE INCLUDED IN THIS STANDARD WILL OCCUR AFTER THE PUBLIC COMMENT HAS BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 62841-3-15 ED 1, COPIES OF WHICH MAY BE VIEWED BY CONTACTING [enquiries@standards.govt.nz](mailto:enquiries@standards.govt.nz).

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 xxxxxxxx and by the New Zealand Standards Approvals Board on xxxxxxxx.

It was published on xxxxxxxx 2025.

---

The following interests are represented on Committee EL/2

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Better Regulation Division (Fair Trading, Safework NSW, TestSafe)

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical Regulatory Authorities, Australia

Electrical consultants

Engineers Australia

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

Testing Interests New Zealand

WorkSafe, New Zealand

---

### **Keeping Standards up-to-date**

Standards are living documents, which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at [www.standards.org.au](http://www.standards.org.au) or Standards New Zealand web site at [www.standards.govt.nz](http://www.standards.govt.nz).

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national standards organization.

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 comment to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the title page.

AS/NZS 62841.3.15:2025  
(IEC 62841-3-15 Ed 1, IDT)

## Australian/New Zealand Standard™

---

Electric motor-operated hand-held  
tools, transportable tools and lawn and  
garden machinery – Safety –

Part 3.15 : Particular requirements for  
transportable magnetic drills

---

Originated as AS/NZS 62841.3.15 :2025.

### **COPYRIGHT**

© Standards Australia/The Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Published jointly by: Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 Australia, and Standards New Zealand PO Box 1473 Wellington 6140.

ISBN (Print) xxxxxxxxxxxxxx

ISBN (PDF) xxxxxxxxxxxxxx

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 62841.3.15 :2025

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE  
TOOLS  
AND LAWN AND GARDEN MACHINERY –  
SAFETY –****Part 3.15 : Particular requirements for transportable magnetic drills****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.

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 62841-3-15 Ed 1, prepared by IEC Technical Committee TC 116, 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 first edition of IEC 62841-3-15 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-15 Particular requirements for transportable magnetic drills*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part of AS/NZS 62841 has to be used in conjunction with the latest edition of AS/NZS 62841.1 *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 62841.1:2015.

This part of AS/NZS 62841 supplements or modifies the corresponding clauses of AS/NZS 62841.1 so as to convert it into the Australian/New Zealand Standard: Safety requirements for transportable magnetic drills.

When a particular subclause of AS/NZS 62841.1 is not mentioned in this part of AS/NZS 62841, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of AS/NZS 62841.1 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 AS/NZS 62841.1;
- unless notes are in a new subclause or involve notes in AS/NZS 62841.1, 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 transportable magnetic drills are covered by this standard.

The national variations to IEC 62841-3-15 Ed 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).

---

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

The text of the International Standard IEC 62841-3-15 Ed 1 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 of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

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

There are no national variations to this part of AS/NZS 62841 other than those listed in the national variations in AS/NZS 62841.1:2015.

DRAFT ONLY

**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 62841-1 (mod)	2014	<i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements</i>	62841.1	2015

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24045 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24045 CP

## **Amendment No. 1 to AS/NZS 60335.2.21:2023**

**Household and similar electrical appliances – Safety –  
Part 2.21: Particular requirements for storage water  
heaters**





# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Household and similar electrical appliances – Safety – Part 2.21: Particular requirements for storage water heaters**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Comment on the proposal is invited from persons and organizations concerned with this subject.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

---

**Amendment No. 1  
to  
AS/NZS 60335.2.21:2023  
Household and similar electrical appliances – Safety –  
Part 2.21: Particular requirements for storage water heaters**

**REVISED TEXT**

The 2023 edition of AS/NZS 60335.2.21 is amended as follows:

**SUMMARY:** This amendment applies to Foreword, Clause 1, 7.12.1 and Annex AA

Published on xxxxx 2025

Approved for publication in Australia on behalf Standards Australia's Standards Development and Accreditation Committee on

Approved for publication in New Zealand by the New Zealand Standards Approval Board on

The IEC text in this amendment takes effect from the date of publication of this amendment. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

---

**FOREWORD**

*Add the following as a new fifth paragraph:*

This standard incorporates Amendment No. 1 (xxxxx 2025). 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.

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

**NATIONAL VARIATIONS**

*Replace the text in the Australian and New Zealand National Variations by the following:*

The following national variations to this Part 2 are additional to those listed in the national variations of AS/NZS 60335.1:2022.

**7 Marking and instructions**

- p **7.12.1** Add to the Addition, as a new paragraph, the following variation:

*The instructions for **heat exchange closed water heaters** that can be retrofitted with **immersion heater units**, shall state the models of **immersion heater units** that can be retrofitted.*

**Annex AA**

- p **AA.5.AZ101** Add after 5.3 the following variation:

**AA.5.AZ101** For **immersion heater units** intended to be retrofitted in a **heat exchange closed water heater**, the tests shall be carried out using each of the models and name, trade mark or identification mark of the manufacturer or responsible vendor of the **heat exchange closed water heaters** listed in the instructions of the manufacturer of the **immersion heater unit**.

- p 7.12.1 Add to the Replacement, as a new paragraph, the following variation:

The instructions for **immersion heater units** intended to be retrofitted in a **heat exchange closed water heater** shall state the models and name, trade mark or identification mark of the manufacturer or responsible vendor of the **heat exchange closed water heaters** in which the **immersion heater unit** can be retrofitted.

DRAFT ONLY

COMMITTEE: EL-002  
Safety of Household and Similar Electrical Appliances  
and Small Power Transformers

DR 24046 CP

**DRAFT**

# **COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT**

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

---

DATE OF ISSUE: 21 October 2024  
CLOSING DATE FOR COMMENT: 16 December 2024

DR 24046 CP

## **Amendment No. 2 to AS/NZS 61558.2.16:2022**

**Safety of transformers, reactors, power supply units  
and combinations thereof –**

**Part 2.16: Particular requirements and tests for  
switch mode power supply units and transformers  
for switch mode power supply units for general  
applications**

---



# **COMBINED DRAFT FOR COMMENT/POSTAL BALLOT STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers

## **DRAFT Australian/New Zealand Standard**

### **Safety of transformers, reactors, power supply units and combinations thereof –**

#### **Part 2.16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications**

Please note that this document is currently being voted by the committee and the results of the postal ballot will be contingent on public comment received.

Comment on the proposal is invited from persons and organizations concerned with this subject.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

---

**Amendment No. 2  
to  
AS/NZS 61558.2.16:2022  
Safety of transformers, reactors, power supply units and combinations thereof –  
Part 2.16: Particular requirements and tests for switch mode power supply units and  
transformers for switch mode power supply units for general applications**

**REVISED TEXT**

The 2022 edition of AS/NZS 61558.2.16 is amended as follows:

*SUMMARY:* This amendment applies to Foreword, National Variations and Annex ANZ

Published on xxxxx 2025

Approved for publication in Australia on behalf Standards Australia's Standards Development and Accreditation Committee on

Approved for publication in New Zealand by the New Zealand Standards Approval Board on

The IEC text in this amendment takes effect 2 years from the date of publication of this amendment. During this period AS/NZS 61558.2:2022 without this amendment will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

---

**FOREWORD**

*Add the following to the existing fifth paragraph:*

This standard also incorporates Amendment No.2 (xxxxx 2025), the change is indicated by a marginal bar.

**NATIONAL VARIATIONS**

*Replace the in the Australian and New Zealand National Variations by the following:*

The following national variations to this Part 2 are additional to those listed in the national variations of AS/NZS 61558.1:2018.

**4.2 General requirements**

- p *Replace the text by the following variation:*

This clause of Part 1 is applicable except as follows.

**4.2** USB Power supply units permanently connected to fixed wiring shall in addition to complying with this standard shall also comply with Clauses 3.16 and 3.17 of AS/NZS 3100.

**Annex ANZ**

- p *Add the following standard reference:*

<i>Approval and test specification – General requirements for electrical equipment</i>	3100
--	------