

COMMITTEE: EL-002

Safety of Household and Similar Electrical Appliances and Small Power Transformers

DR 25007 CP

**DRAFT**

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

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

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DATE OF ISSUE:

2 June 2025

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28 July 2025

DR 25007 CP

**AS/NZS 60335.2.43:202x**

**Household and similar electrical appliances –  
Safety**

**Part 2.43: Particular requirements for clothes  
dryers and towel rails**

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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 2.43: Particular requirements for clothes dryers and towel rails**

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

Comments on the proposal are invited from persons and organisations 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 comments received. It is not to be regarded as an Australian/New Zealand standard until it is 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 PUBLIC COMMENTS HAVE BEEN CONSIDERED AND PRIOR TO THE PUBLICATION OF THE STANDARD.

THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH IEC 60335-2-43, ED. 5.0, 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 Approval Board on xxxxxxxx.

It was published on xxxxxxxx.

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The following interests are represented on Committee EL-002:

Association of Accredited Certification Bodies

Australian Industry Group

Australian Retailers Association

Building Commission NSW

Business New Zealand

Consumer Electronic Suppliers Association, Australia

Consumers' Federation of Australia

Electrical consultants

Electrical Regulatory Authorities, Australia

Engineers Australia

International Accreditation New Zealand

JAS-ANZ

National Retailers Association (Australia)

New Zealand Electric Fence Energizer Manufacturers' Standards Group

WorkSafe, New Zealand

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### **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 25007.*

# Australian/New Zealand Standard

## Household and similar electrical appliances – Safety

### Part 2.43: Particular requirements for clothes dryers and towel rails

Superseding AS/NZS 60335.2.43:2018 on xx xxxx xxxx

Originated in Australia as AS 3196-1975.

Previous Australian edition AS 3196-1995.

Originated in New Zealand as NZS 6343:1994.

Jointly revised and designated AS/NZS 3350.2.43:1996.

Second edition AS/NZS 3350.2.43:2001.

Jointly revised and redesignated AS/NZS 60335.2.43:2014.

Jointly revised and redesignated AS/NZS 60335.2.43:2018.

Jointly revised and designated AS/NZS 60335.2.43:202X.

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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**AS/NZS 60335.2.43:202x**  
**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –**  
**SAFETY****Part 2.43: Particular requirements for clothes dryers and towel rails****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 60335.2.43:2018 3 years from the date of publication of this standard. During this period, AS/NZS 60335.2.43:2018 and its amendment will remain current. Regulatory authorities that reference this standard in regulation may apply these requirements at a different time. Users of this standard should consult these authorities to confirm their requirements.

The objective of this standard is to provide manufacturers, designers, regulatory authorities, testing laboratories, and similar organisations 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 60335-2-43, Ed. 5.0, prepared by IEC Technical Committee TC 61, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

The principal changes in this edition as compared with the 2018 edition of AS/NZS 60335.2.43 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 and subclauses 11.101 and 15.101);
- (c) Application of test probe 19 (subclauses 8.1.1, 20.2, B.22.3 and B.22.4);
- (d) Addition of accessible surface temperature limits (subclauses 11.3 and 11.8).

This standard is an adoption with national modifications of the fifth edition of IEC 60335-2-43, *Household and similar electrical appliances – Safety – Part 2-43: Particular requirements for clothes dryers and towel rails*. 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 clothes dryers and towel rails.

When a particular subclause of AS/NZS 60335.1 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 AS/NZS 60335.1 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 60335.1;
- unless notes are in a new subclause or involve notes in AS/NZS 60335.1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, and so on;
- 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 clothes dryers and towel rails are covered by this standard.

Where national variations in AS/NZS 60335.1 (adopting IEC 60335-1) affect IEC 60335-2-43, Ed. 5.0, these, along with the variations listed below, form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

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

The text of the international standard IEC 60335-2-43, Ed. 5.0 was approved as a joint Australian/New Zealand standard, noting the effect of national variations in AS/NZS 60335.1:2022.

## 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.

### 7 Marking and instructions

#### 7.12.1 Addition:

- p Add the following text:

For **fixed towel rails** delivered with a separate connector to ease the installation and establish the supply connection, the instructions shall state the substance of the following:

Only use the supplied connector when installing the towel rail.

### 22 Construction

- p Add the following new subclause:

**AZ.22.101 Fixed towel rails** may be delivered with a separate connector to ease the installation and establish the supply connection. Such a connector shall become a **non-detachable part** once engaged.

Such a connector shall not be interchangeable with plugs and socket outlets listed in IEC/TR 60083 or IEC 60906-1 or with appliance couplers complying with the standard sheets of IEC 60320-3.

*Compliance is checked by inspection.*

### 24 Components

- p Add the following text:

#### 24.1.5 Addition:

Connectors which are **non-detachable parts** once engaged are not considered to be part of an appliance coupler.

**AZ.24.1.101** The relevant standard for a connector as referenced in AZ.22.101 is IEC 61984:2008. Classification and ratings used for the tests of IEC 61984:2008 shall correspond to the ratings of the **fixed towel rail**, when installed as per manufacturer's instructions.

The following clauses of IEC 61984:2008 and the corresponding test requirements in clause 7 are not applicable: 5.2 a), 5.4 d), 6.2.1, 6.2.2, 6.4.1, 6.4.2, 6.4.3, 6.10, 6.14.2, 6.14.3, 6.17, 6.19, and 6.20. Subclause 6.5.1 is also applicable for connectors without breaking capacity (COC). Subclauses 6.15 and 6.16 are applicable but are modified to the **fixed towel rail** temperature ratings. The tests in clause 7.3.6, 7.3.7 are performed when the connector referenced in clause AZ.22.101 is engaged.

### 25 Supply connection and external flexible cords

- p Add the following text:

#### 25.3 Addition:

- p Add the following note after the first dashed item in the first paragraph:

NOTE AZ.101 The set of terminals can be located in a separate connector complying with AZ.24.1.101.

#### 25.5 Addition:

**Type Z attachment** is allowed.

## 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.

### 7 Marking and instructions

#### 7.12.1 Addition:

- p Add the following text:

For **fixed towel rails** delivered with a separate connector to ease the installation and establish the supply connection, the instructions shall state the substance of the following:

Only use the supplied connector when installing the towel rail.

### 22 Construction

- p Add the following new subclause:

**AZ.22.101 Fixed towel rails** may be delivered with a separate connector to ease the installation and establish the supply connection. Such a connector shall become a **non-detachable part** once engaged.

Such a connector shall not be interchangeable with plugs and socket outlets listed in IEC/TR 60083 or IEC 60906-1 or with appliance couplers complying with the standard sheets of IEC 60320-3.

*Compliance is checked by inspection.*

### 24 Components

- p Add the following text:

#### 24.1.5 Addition:

Connectors which are **non-detachable parts** once engaged are not considered to be part of an appliance coupler.

**AZ.24.1.101** The relevant standard for a connector as referenced in AZ.22.101 is IEC 61984:2008. Classification and ratings used for the tests of IEC 61984:2008 shall correspond to the ratings of the **fixed towel rail**, when installed as per manufacturer's instructions.

The following clauses of IEC 61984:2008 and the corresponding test requirements in clause 7 are not applicable: 5.2 a), 5.4 d), 6.2.1, 6.2.2, 6.4.1, 6.4.2, 6.4.3, 6.10, 6.14.2, 6.14.3, 6.17, 6.19, and 6.20. Subclause 6.5.1 is also applicable for connectors without breaking capacity (COC). Subclauses 6.15 and 6.16 are applicable but are modified to the **fixed towel rail** temperature ratings. The tests in clause 7.3.6, 7.3.7 are performed when the connector referenced in clause AZ.22.101 is engaged.

### 25 Supply connection and external flexible cords

- p Add the following text:

#### 25.3 Addition:

- p Add the following note after the first dashed item in the first paragraph:

NOTE AZ.101 The set of terminals can be located in a separate connector complying with AZ.24.1.101.

#### 25.5 Addition:

**Type Z attachment** is allowed.



## 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, then the Australian/New Zealand publication applies.

Publication	Year	Title	AS/NZS	Year
IEC TR 60083		<i>Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC</i>		
IEC 60906-1		<i>IEC system of plugs and socket-outlets for household and similar purposes – Part 1: Plugs and socket-outlets 16 A 250 V a.c.</i>		
IEC 61984	2008	<i>Connectors – Safety requirements and tests</i>		