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Approval and test specification— General requirements for electrical equipment



STANDARDS AUSTRALIA



This Australian Standard was prepared by Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of Standards Australia on 12 September 1994 and published on 14 November 1994.

The following interests are represented on Committee EL/2:

- Association of Certification Bodies
- Association of New Zealand Electrical Appliances Distributors
- Australian Chamber of Commerce and Industry
- Australian Electrical and Electronic Manufacturers Association
- Consumer Electronics Suppliers Association, Australia
- Electrical regulatory authorities
- Electrical Supply Association of Australia
- Electrical test laboratories
- Electricity Supply Association, New Zealand
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STANDARDS AUSTRALIA

Amendment No. 6
to
AS 3100—1994
Approval and test specification—
General requirements for electrical equipment

REVISED TEXT

The 1994 edition of AS 3100 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to Table 5.7, Section 6, Table 8.15.9, Appendix A and Appendix B.

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AMDT
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Page 43 Table 5.7

- 1 *Delete* Footnote e* and *replace* with the following:

^c There is no specific limit for thermoplastic material. If there is any doubt about the suitability of the material, it is subjected to the tests of Clause 6.2 for which purpose the temperature rise must be determined.

- 2 *Delete* the line and Footnote (*) from the bottom of the page.

This Amendment forms part of the Specification on publication.



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Page 45 Section 6

Delete Section 6 including the line and Footnote (*) from the bottom of the page and *replace* with the following:

**SECTION 6 RESISTANCE TO HEAT, FIRE
AND TRACKING**

6.1 GENERAL This Section applies only to equipment designated 'attended' or 'unattended' in a particular approval and test specification.

For particular approval and test specifications that do not designate equipment as 'attended' or 'unattended' the requirements of Appendix A apply.

6.2 RESISTANCE TO HEAT External parts of non-metallic material, parts of insulating material supporting live parts including connections, and parts of thermoplastic material providing supplementary or reinforced insulation, the deterioration of which might cause the equipment to fail to comply with this Standard, shall be sufficiently resistant to heat.

Compliance is checked, if required, by Footnote^c to Table 5.7 and by Footnote[†] to Table 8.15.9, using the test of Appendix B, Paragraph B2.

6.3 RESISTANCE TO FIRE Parts of non-metallic material shall be resistant to ignition and spread of fire.

Compliance is checked by the tests of Appendix B, Paragraph B3.

This requirement does not apply to decorative trims, knobs, wiring insulation and other parts not likely to be ignited or to propagate flames originating from inside the equipment.

6.4 RESISTANCE TO TRACKING Insulating material across which a tracking path may occur shall have adequate resistance to tracking, taking into account the severity of its duty conditions.

Compliance is checked by the tests of Appendix B, Paragraph B4.

This Amendment forms part of the Specification on publication.

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Page 70 TABLE 8.15.9

1 *Delete* Footnote[†] and *replace* with the following:

[†] There is no specific limits for thermoplastic material. If there is any doubt about the suitability of the material, it is subjected to the tests of Clause 6.2 for which purpose the temperature rise must be determined.

2 *Delete* the line and Footnote ([‡]) from the bottom of the page.

This Amendment forms part of the Specification on publication.

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Page 71 APPENDIX A

- 1 *Delete* the title and first paragraph and *replace* with the following:

APPENDIX A
REQUIREMENTS FROM THE 1990 EDITION
(Normative)

The following requirements, taken from the 1990 edition of AS 3100, are applicable to equipment that is not designated as 'attended' or 'unattended'.

- 2 *Delete* the line and Footnote (*) from the bottom of the page.

This Amendment forms part of the Specification on publication.

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Page 75 APPENDIX B

- 1 *Delete* the title and *replace* with the following:

APPENDIX B
TESTS OF RESISTANCE TO HEAT, FIRE AND TRACKING
(Normative)

- 2 *Delete* the line and Footnote (*) from the bottom of the page.

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