

3196

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Australian Standard 3196—1982

APPROVAL AND TEST SPECIFICATION FOR ELECTRIC CLOTHES DRYING CABINETS FOR HOUSEHOLD USE



**PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.**

Incorporated by Royal Charter



This Australian standard was prepared by Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of the Standards Association of Australia on 28 April 1982 and published on 19 July 1982.

The following interests were represented on the committee responsible for the preparation of this standard:

- Australian Consumers Association
 - Australian Electrical and Electronic Manufacturers Association
 - Confederation of Australian Industry
 - Electrical Apparatus Approvals Authorities
 - Electrical Testing Laboratories
 - Electricity Supply Association of Australia
 - Electronics Importers Association
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First published	1975 ✓
Second edition	1982

PREFACE

This edition of this specification was prepared by Committee EL/2, Electrical Approvals Standards.

It is one of a series of approval and test specifications issued by the Association. These specifications are accompanied by a general specification AS 3100, containing definitions and general requirements for electrical materials and equipment. The purpose of these specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment in Australia. Only safety matters and related conditions are covered.

This edition is technically identical with the 1975 edition except that it incorporates Amendments Nos 1 and 2 to that edition which were issued in August 1977 and August 1978 respectively, and includes changes to the following:

- Clause 4.1.3—modifies requirements for connection
- *Clause 9—relates to addition of fire test
- Clause 12—incorporates present terminology for thermal cutouts
- †Table 1—additional tests
- Clause 16.6—incorporates present terminology for thermal cutouts
- ‡Clause 16.9—adds fire test
- §Clause 16.10—adds test for d.c. component

This specification supersedes AS 3196—1975 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary provisions of a contract.

This specification requires reference to the following Australian standard approval and test specifications:

- | | |
|---------|---|
| AS 3100 | Definitions and General Requirements for Electrical Materials and Equipment |
| AS 3121 | Insulating Mouldings |
| AS 3133 | Air-break Switches |
| AS 3161 | Thermostats and Energy Regulators |
| AS C109 | Appliance Plugs and Appliance Inlet-sockets |

In addition, reference to other approval and test specifications may be required for approval of particular components incorporated in electric clothes drying cabinets (see Clause 3.3).

*This change forms part of the specification on 1 January 1983.

†Test No 21 forms part of the specification on 1 January 1983.

‡Test No 22 forms part of the specification on 1 March 1983.

‡This Clause forms part of the specification on 1 January 1983.

§This Clause forms part of the specification on 1 March 1983.

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STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No 1

to

AS 3196—1982**Approval and Test Specification for****ELECTRIC CLOTHES DRYING CABINETS FOR HOUSEHOLD USE****REVISED TEXT**

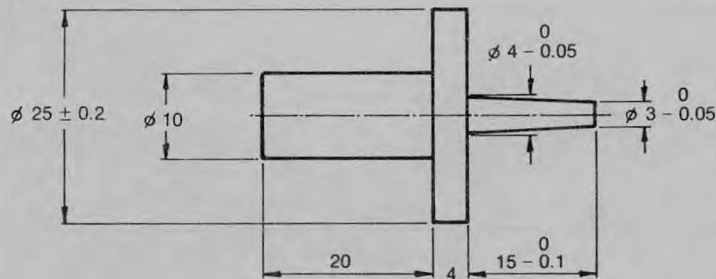
The 1982 edition of AS 3196 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 5.1.4 (new) and 5.2.

Published on 9 May 1983.

Add new Clause 5.1.4 as follows:

5.1.4 Live parts and heating units. Live parts and the heating unit(s) of the drying cabinet shall be guarded so that they cannot be touched by the standard test finger when it is applied in accordance with Clause 8.10.3 of AS 3100; and in addition, the test pin of Fig. 1 shall not contact live parts.



DIMENSIONS ARE IN MILLIMETRES

Fig. 1. TEST PIN

This amendment forms part of the specification 18 months after publication.

Page 5. Clause 5.2.

Delete existing first sentence of first paragraph and substitute:

5.2 Protection Against Heat and Fire. Any heating unit shall be so assembled and fixed that it will not introduce a risk of fire or electric shock through displacement resulting from loosening of fixings or other defects likely to be brought about by vibration or other conditions of service. It shall be so constructed or protected that, in the case of rupture or sagging, the heating element cannot come into contact with earthed or accessible metal parts, or protrude or be ejected from the drying cabinet.

Compliance shall be checked by inspection and in addition, for bare heating elements, after the heating element has been cut in the most unfavourable place.

NOTE: This test may be conducted on a separate sample.

This amendment forms part of the specification 18 months after publication.

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
APPROVAL AND TEST SPECIFICATION
FOR
ELECTRIC CLOTHES DRYING CABINETS FOR HOUSEHOLD USE

This specification shall be read in conjunction with AS 3100. (See also Clause 3, below.)

1 SCOPE. This specification applies to electric clothes drying cabinets as defined in Clause 2, which are designed for operation at low or medium voltage and are intended for use in the drying of household textile material which has previously been washed in a water solution.

This specification does not apply to rotary clothes dryers covered by AS 3185 or to heated towel rails.

2 DEFINITIONS. For the purpose of this specification, the following definition applies:

Electric clothes drying cabinet (hereinafter referred to as a 'drying cabinet')—an electrical appliance primarily intended for household use and designed principally for drying water-washed household textile materials, by the circulation of heated air over and through such materials while they are suspended or otherwise supported in the cabinet.

3 COMPLIANCE WITH SPECIFICATIONS.

3.1 General Requirements of AS 3100. This specification shall be read in conjunction with AS 3100 and the appropriate provisions of AS 3100 shall apply to the construction of the drying cabinet and the insulation and/or safeguarding of parts which normally carry current.

3.2 Specific Requirements of This Specification. A drying cabinet shall be deemed to comply with this specification only if it complies with all the requirements of this specification and passes the relevant tests specified herein.

3.3 Requirements of Other Specifications. Equipment and components incorporated in a drying cabinet which are depended upon for safety shall comply with the appropriate requirements of any relevant approval and test specification unless such requirements are varied herein.

4 MEANS OF CONNECTION.

4.1 Connection by Flexible Cord and Plug.

4.1.1 General. A drying cabinet intended for connection to a plug socket by means of a flexible cord and connecting plug shall comply with the requirements of Clauses 4.1.2 and 4.1.3.

4.1.2 Flexible cord and connecting plug. The drying cabinet shall be provided with a supply flexible cord and connecting plug; the flexible cord provided with the drying cabinet for the purpose of connecting it to the supply shall—

- (a) be of a type not inferior to an ordinary duty sheathed type in accordance with AS 3191;
- (b) be correctly wired in accordance with the appropriate requirements of Clause 4.4 of AS 3100; and

- (c) have a free length (external to the drying cabinet and any plug) of not less than 1.8 m.

4.1.3 Connecting facilities. The drying cabinet shall be provided with one of the following means of connection to the supply:

- (a) A Type C appliance plug and appliance inlet-socket complying with AS C109. The socket shall be so arranged that the temperature of the plug when inserted will not exceed the limiting temperatures specified in AS 3100 for the materials used, when the drying cabinet is operated under the conditions prescribed in Clause 16.3. The inlet-socket shall be located or shielded so as to be protected from any spillage which may occur in the normal use of the drying cabinet.

- (b) A power supply cord which shall be assembled with the appliance by one of the following methods:

Type X attachment.
 Type M attachment.
 Type Y attachment.

4.2 Permanent Connection. A drying cabinet intended for connection to fixed wiring shall be provided with facilities for the connection of the supply conductors in accordance with the relevant requirements of Clause 4.3 of AS 3100 subject to the following conditions:

- (a) Terminals of a heating element or heating unit, or of a thermostat, shall not be used as a means for the connection of supply conductors.
- (b) Active and neutral terminals shall be marked in accordance with the requirements of Clause 7.6 of AS 3100.

5 DESIGN AND CONSTRUCTION.

5.1 Guarding.

5.1.1 Fixing. Any guarding shall be fixed in position in such a manner that a tool is necessary for its removal. Where it is possible for a guard or panel to be fitted in other than one position, the guard or panel shall satisfy this requirement in each of the positions in which the guard may be fitted.

5.1.2 Material. Material used in the construction of any guarding shall be suitable for the purpose and shall be of a type which will not deteriorate significantly with age.

5.1.3 Strength. Any guarding upon which the drying load may fall (i.e. guarding located directly below the area in which the drying load is suspended) shall comply with the requirements of Clause 16.5.

5.2 Protection Against Heat and Fire. Any electric heating unit incorporated in a drying cabinet